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

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 penalities 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.

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 Address: EQT Production Company, 120 Professional Place, Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place, Bridgeport, WV 26330

8) Oil & Gas Inspector to be notified:
Name: Ed Gainer
Address: P.O. Box 821, 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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JUN 10 2013

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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

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 ¼" 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' to1424' (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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1500072P

D1

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, 1930.

Elevation of surface at top of well, 753.34 Spirit

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

.....feet.....size. Wood conductor

313 feet 10" pulled out size, csg. 67 ft. 7" feet 5-3/15 (liner) sized csg.

1089 feet 8¼" pulled out size, csg. feet sized csg.

1324 feet 6-5/8" size, csg. feet sized 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.

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.

Clay

February 26, 1931. Date.

THOMPSON GAS COMPANY,

Approved ....., Owner.

By .....

(Title) Gen'l Supt.

DEPARTMENT OF MINES FEB 27 1931 WEST VIRGINIA

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1500072P

B2

Well No. T-27.

6 May-72

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			545 ft.	456	485	19		
Salt Sand			747 "	485	1045	560		
Slate			775 "	1045	1092	47		
Salt Sand				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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Well was shot at 1501-1543 feet; well was shot at ..... feet.

Fresh water at 110 feet; salt water at 545, 747 and 775 feet.

Well was producing gas

February 26, 1931. Date

Approved THOMPSON GAS COMPANY, J. L. Shupard Gen'l Supt.

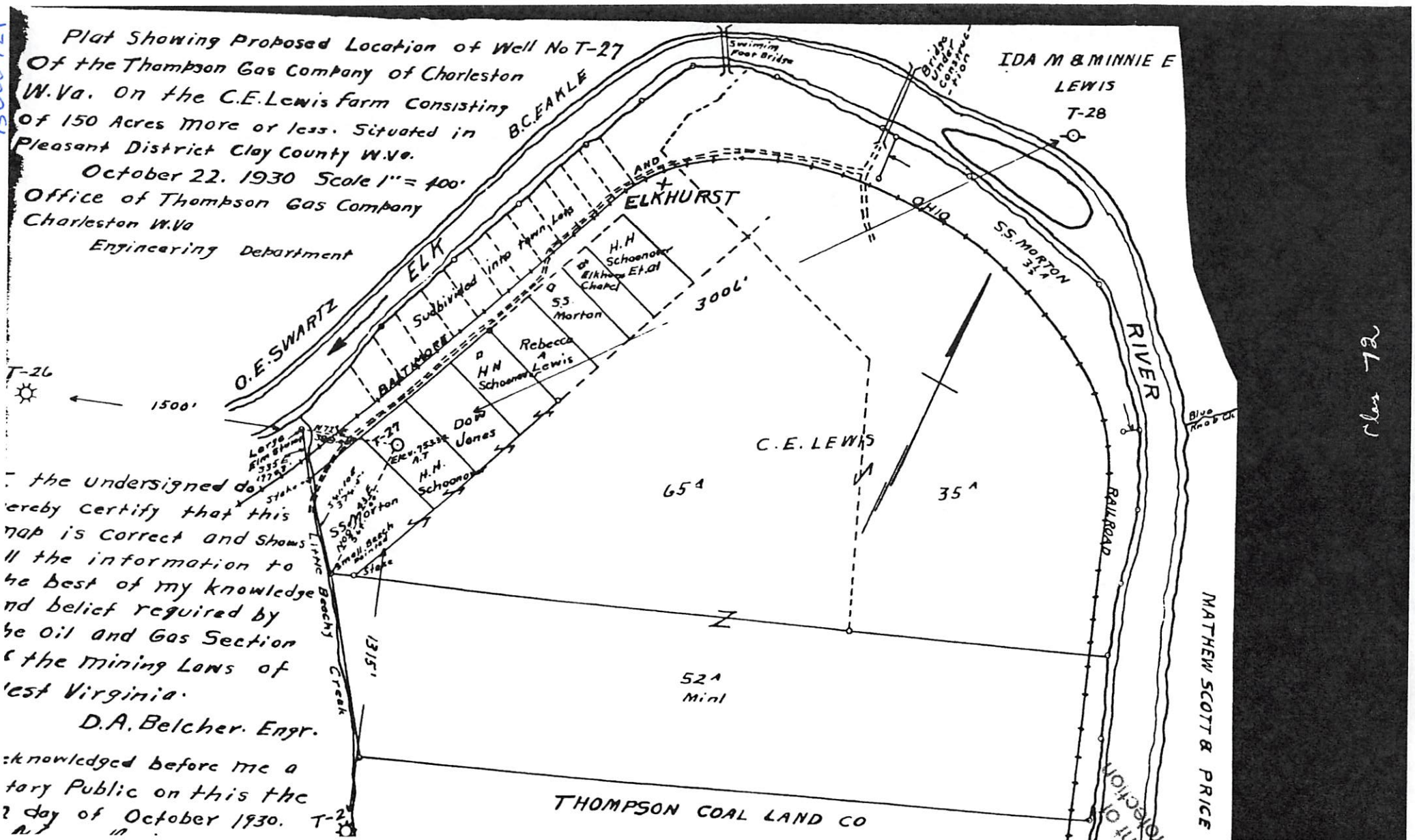
NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.

1500072P

Plat Showing Proposed Location of Well No T-27 Of the Thompson Gas Company of Charleston W.Va. On the C.E. Lewis farm Consisting of 150 Acres more or less. Situated in Pleasant District Clay County W.Va.

October 22. 1930 Scale 1" = 400'

Office of Thompson Gas Company
Charleston W.Va
Engineering Department



the undersigned do
ereby certify that this
nap is correct and shows
ll the information to
he best of my knowledge
nd belief required by
he Oil and Gas Section
f the Mining Laws of
'est Virginia.

D.A. Belcher. Engr.

:knowledged before me a
tary Public on this the
2 day of October 1930.

Plan 72

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Office of Oil and Gas
JUN 1 0 2013
WV Department of
Environmental Protection

1500072P

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
Procious 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 ✓
Address: 123 Park Ave.
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.

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: **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
Notary Public
My Commission Expires: 8-24-22

Received
JUN 5 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

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.

1500072 P

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

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JUN 5 2013
Office of Oil and Gas
WV Dept. of Environmental Protection

1500072P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
412851 Lewis, C.E. "T" #27
3) API Well No.: 47 015 - 00072

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 ____

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

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JUN 5 2013
Office of Oil & Gas
Dept. of Environmental Protection

Subscribed and sworn before me this 29 day of May, 2013

Pamela Sykes Notary Public

My Commission Expires 8-24-22

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

1500072P

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

LEGEND

Property Boundary

Diversion

Road

Spring

Wet Spot

Planned Fence

Drain Pipe with size in inches

Water Way

Existing Fence

Stream

Cross Drain

Open Ditch

Artificial Filter Strip

Rock

North

N

Building

Water well

W

Drill site

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

Seed Type	lbs/acre
KY-31	40
Alsike Clover	5
Annual Rye	15

Area II

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

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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: [signature]

Comments:

Title: Inspector Date: 6/6/13

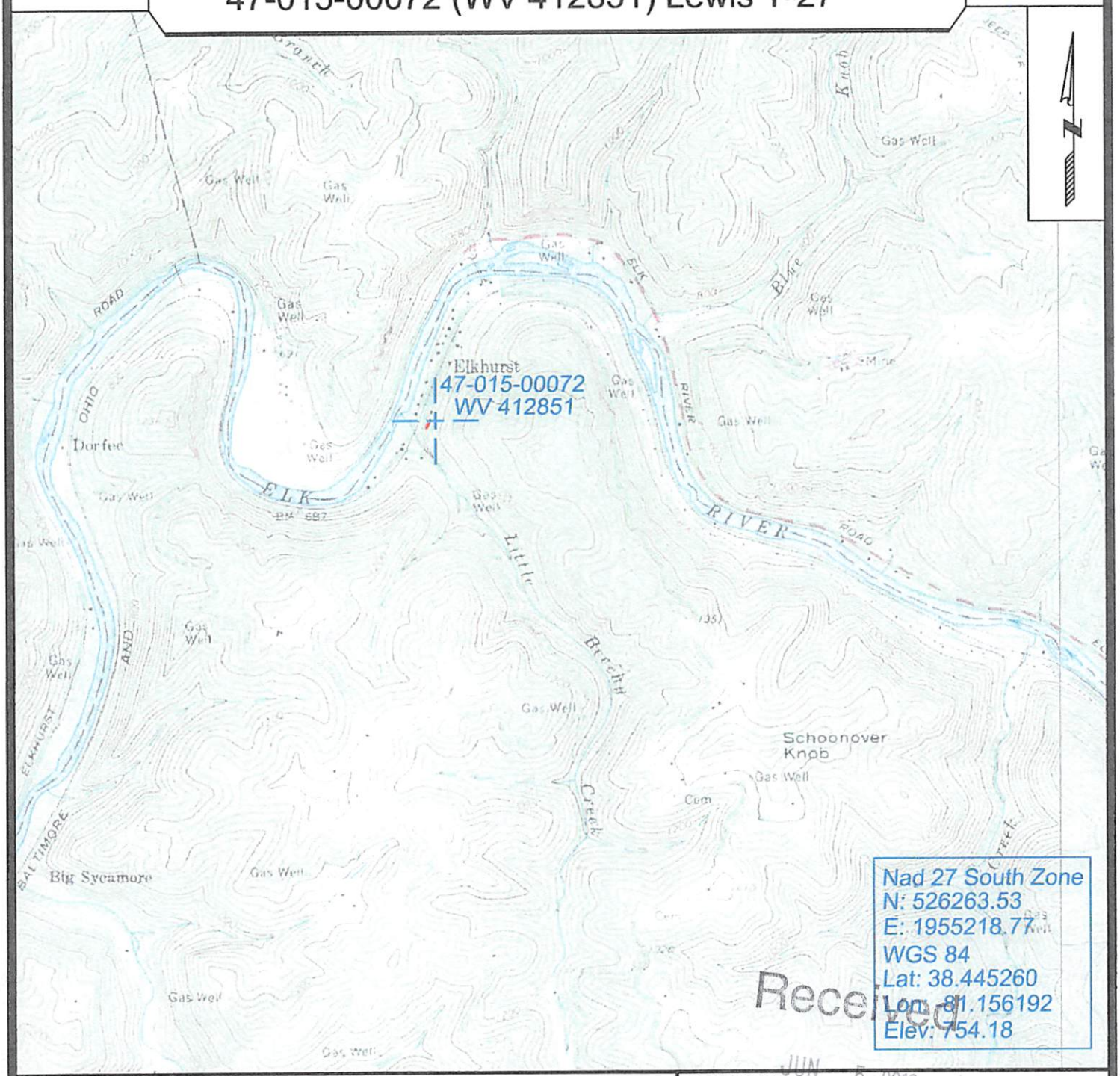
Field Reviewed? ____ Yes X No

1500072 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



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WV Dept. of Environmental Protection

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.
P.O. Box 280
Bridgeport, WV 26330

1500072P

WW-7
8-30-06

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

API: 47-015-00072 **WELL NO.:** WV 412851 (Lewis T 27)

FARM NAME: Lewis

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Clay **DISTRICT:** Pleasant

QUADRANGLE: Elkhurst 7.5'

SURFACE OWNER: Jerry Quinn

ROYALTY OWNER: C. E. Lewis, et al

UTM GPS NORTHING: 4,255,231

UTM GPS EASTING: 486,370 **GPS ELEVATION:** 230 m (757 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.

Ben Stylette
Signature

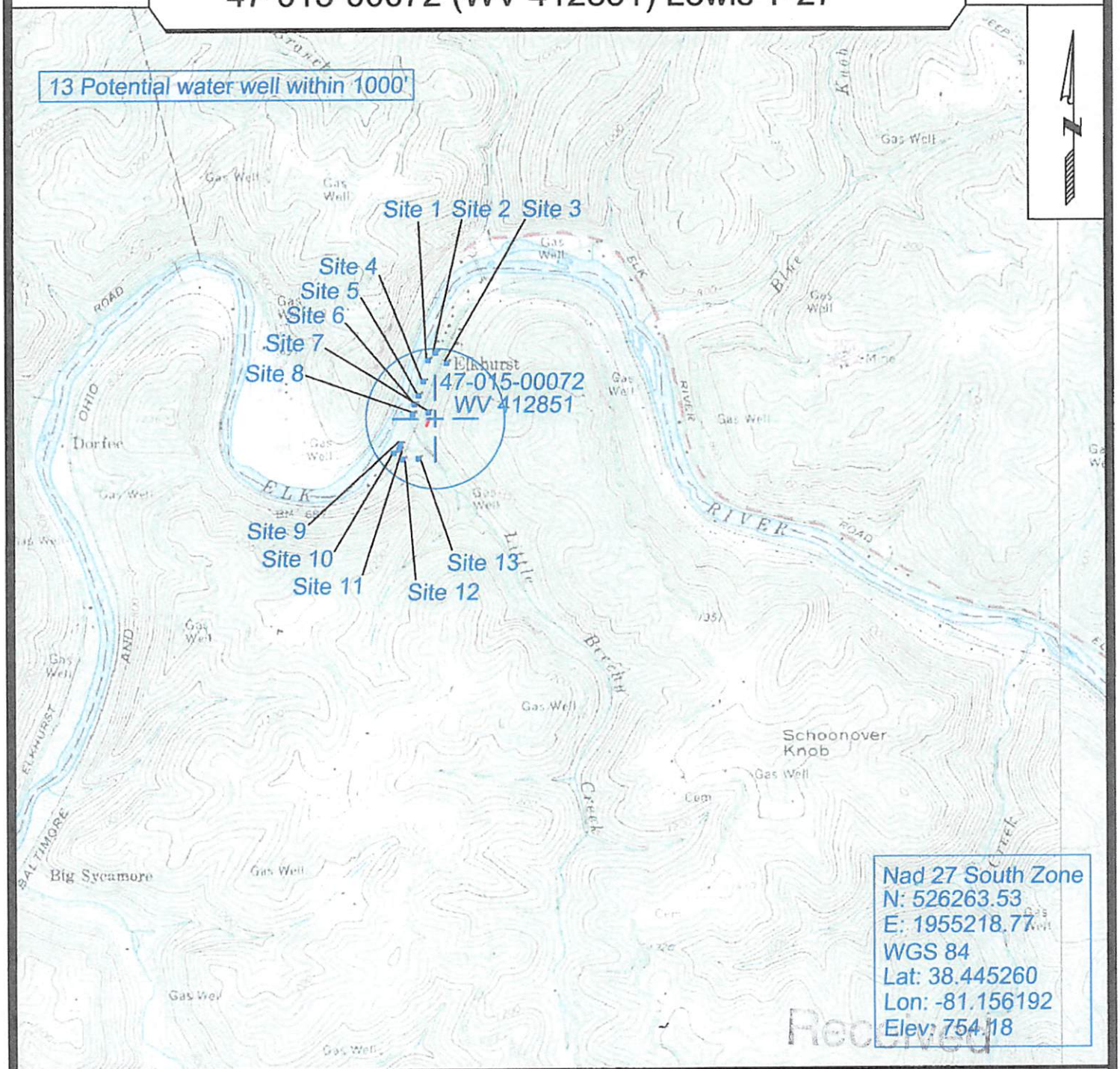
P.S. 2092
Title

5-17-13
Date

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



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WV Dept. of Environmental Protection

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1-800-482-8606
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BIRCH RIVER, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

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

1500072P

MUWV FAX-A-LOCATE SYSTEM INPUT FORM **WV 412851**

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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Office of Oil and Gas
JUN 10 2013
WV Department of
Environmental Protection

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.

1500072P

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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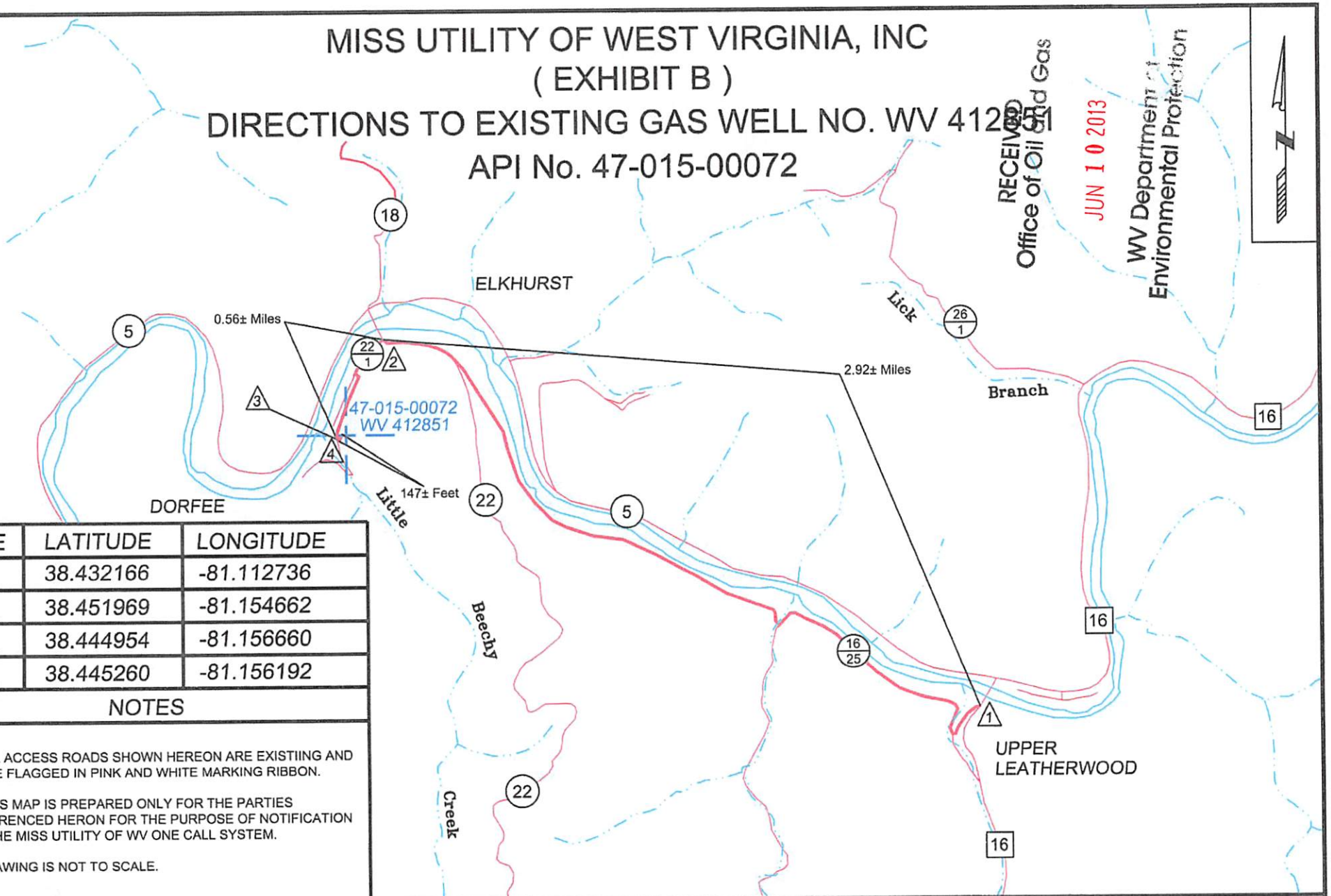
JUN 10 2013
WV Department of
Environmental Protection



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 EXISTIING 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.

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

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