



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

April 22, 2014

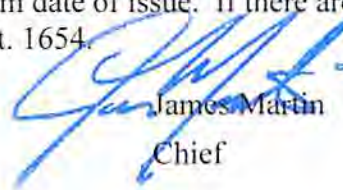
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2100471, 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: 158271 (B.S. Messenger #3)

Farm Name: MESSENGER, B. S.

API Well Number: 47-2100471

Permit Type: Plugging

Date Issued: 04/22/2014

Promoting a healthy environment.

04/25/2014

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.

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

Date: 3-17-14
Operator's Well
Well No. 158271 B.S. Messenger #3
API Well No.: 47 021 - 00471

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: 1149' Watershed: Mudlick Run of Tanner Creek of Little Kanawha River
 Location: Troy County: Gilmer Quadrangle: Auburn 7.5'
 District: _____

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

8) Oil & Gas Bryan Harris 9) Plugging Contractor:
 Name: P.O. Box 157 Name: HydroCarbon Well Service
 Address: Volga, WV 26238 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.

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 O'Harris Date 4-9-14

PLUGGING PROGNOSIS - Weston

Messenger, B.S. # 3 (158271)

GILMER, County, WV
API # 47-021-00471
Troy District

BY: Craig Duckworth
DATE: 12/17/13

CURRENT STATUS:

8 1/4" csg @ 337'
6 5/8" csg @ 1377'

TD @ 1890'
Elevation: 1073'

Fresh Water None Reported
Salt Sand @ 1202'
Gas shows @ Sand 1482, Sand 1865'
Oil Shows @ None Reported
Stimulation: None Reported

Salt Water @ None Reported
Coal @ 70', 191'

1. Notify State Inspector, **Bryan Hurris 304-553-6087**, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 1865'; Set 200' C1A Cement Plug @ 1865' to 1665' (gas show @ 1865')
3. TOOH w/ tbg, Free Point 6 5/8", cut 6 5/8" @ free point, TOOH w/ 6 5/8" csg
4. TIH w/ tbg @ 1665; gel hole @ 1665' to 1482'.
5. TOOH w/ tbg @ 1482'; Set 155' C1A Cement Plug @ 1482' to 1327' (Gas Show @ 1482' 6 5/8" @ 1377').
6. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs.
7. TOOH w/ tbg @ 1327'; gel hole @ 1327' to 1202'.
8. TOOH w/ tbg @ 1202'; Set 200' C1A Cement Plug @ 1202' to 1002' (Salt Sand @ 1202' & Elevation @ 1073')
9. TOOH w/ tbg @ 1002'; gel hole @ 1002' to 387'
10. TOOH w/ tbg @ 387'; Set 100' C1A Cement Plug @ 387' to 287' (8 1/4" @ 337')
11. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 1/4" cut. Do not omit any plugs.
12. TOOH w/ tbg @ 287'; gel hole @ 287' to 200'
13. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface (Coal @ 191' & 70')
14. Top off as needed
15. Set Monument to WV-DEP Specifications
16. Reclaim Location & Road to WV-DEP Specifications

Received

MAR 19 2014

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

✓

Permit No. G11-471
Holbrook Quad.

Gas Toll

| | |
|-----------|--|
| Company | F. G. Bish |
| Address | Clarksburg, W. Va. |
| Farm | B. S. Messonger ACRE 250 |
| Location | Loading Creek |
| Well No. | 3 ELEV. 1073 |
| District | Troy - Giamer County |
| Surface | B. S. Messonger, Baldwin, W. Va. |
| Mineral | Same & Wyant Hrs., Parkersburg, W. Va. |
| Commenced | Dec. 10, 1940 |
| Completed | Jan. 11, 1941 |
| Open Flow | 25/10ths W in 1" |
| Volume | 59,520 c.f. |
| Water | - |

CASING & TUBING

| | | |
|-------|------|------|
| 10 | 10 | 10 |
| 8-1/4 | 337 | 337 |
| 6-5/8 | 1377 | 1377 |

| | | |
|--------------|------|---------------|
| Coal Blossom | 70 | |
| Coal Blossom | 191 | |
| Sand | 470 | 1 |
| Sand | 682 | 712 |
| Sand | 900 | 856 |
| Sand | 960 | 970 |
| Sand | 1230 | 1268 |
| Sand | 1275 | 1496 Gas 1482 |
| Sand | 1620 | 1640 |
| Red Rock | 1640 | 1643 |
| Lime | 1670 | 1695 |
| Sand | 1711 | 1739 |
| Lime | 1739 | 1790 |
| Sand | 1790 | 1893 Gas 1865 |
| Total Depth | | 1890 |

Received

MAR 19 2014

WW-4-A
Revised 6/07

1) Date: 3-17-14
2) Operator's Well Number
158271 B.S. Messenger #3
3) API Well No.: 47 021 - 00471
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

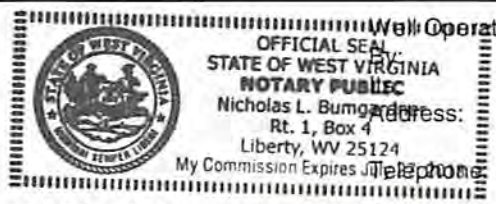
4) Surface Owner(s) to be served:
(a) Name High Mountain Timber LLC ✓
Address P.O. Box 587
Elkins, WV 26241
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Bryan Harris
Address P.O. Box 157
Volga, WV 26238
Telephone 304-553-6087

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Richard C. Bingham ✓
C/O Robert C. Bingham
Address 220 Finnegan Drive
Millersville, MD 21108-2576
Name Forrest J. Messenger ✓
Address 29 Lynn Street
Evans, WV 25241-9738
(see attached)
(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
Victoria J. Roark
Permitting Supervisor
PO Box 280
Bridgeport, WV 26330
(304) 848-0076

Subscribed and sworn before me this 17 day of MARCH, 2014
My Commission Expires: 6/27/2018 Notary Public

Received
MAR 19 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.

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: Mudlick Run of Tanner Creek of Little Kanawha River Quadrangle: Auburn 7.5'
Elevation: 1149' County: Gilmer District: Troy

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.

Received

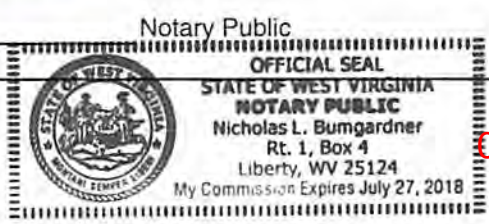
Company Official Signature *Victoria Roark* MAR 19 2014

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 17 day of MARCH, 2014

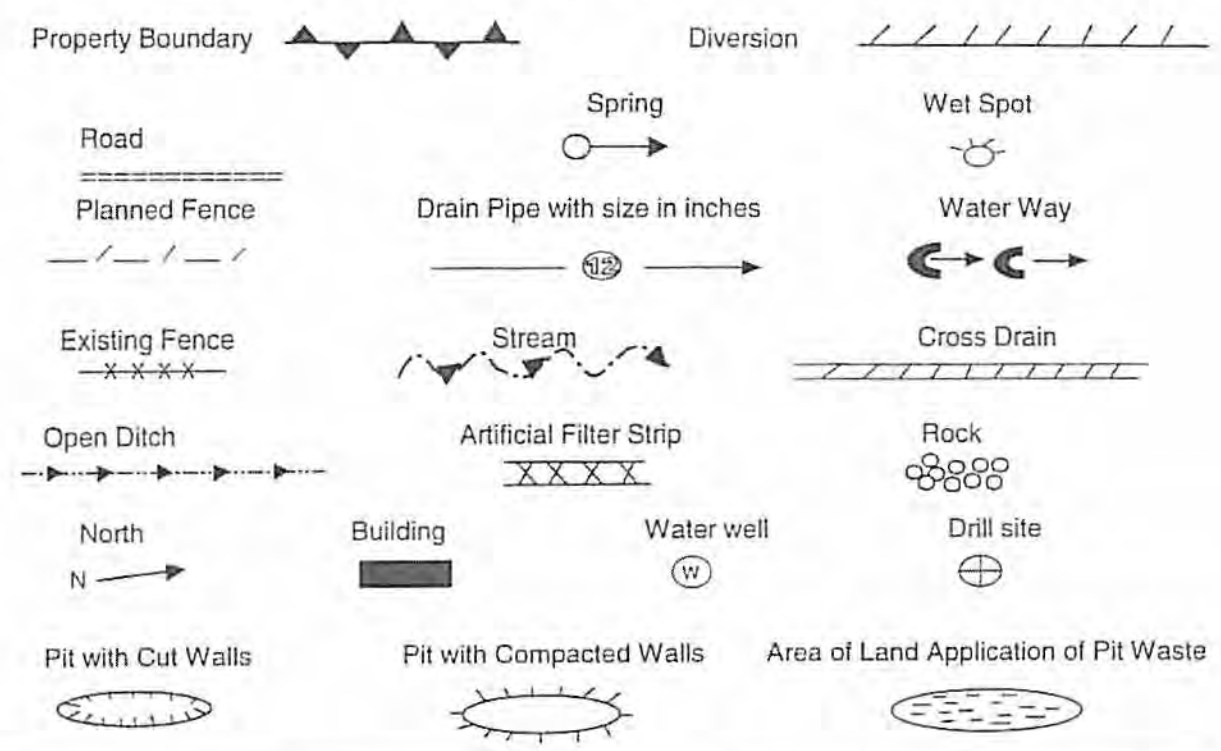
My Commission Expires 6/27/2018



04/25/2014

OPERATOR'S WELL NO.:
158271 B.S. Messenger #3

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: *Gregory P. Hansen*

Comments: _____

Title: *Inspector* Date: *4-9-14*
 Field Reviewed? Yes No

2100471P

Topo Quad: Auburn 7.5'

Scale: 1" = 2000'

County: Gilmer

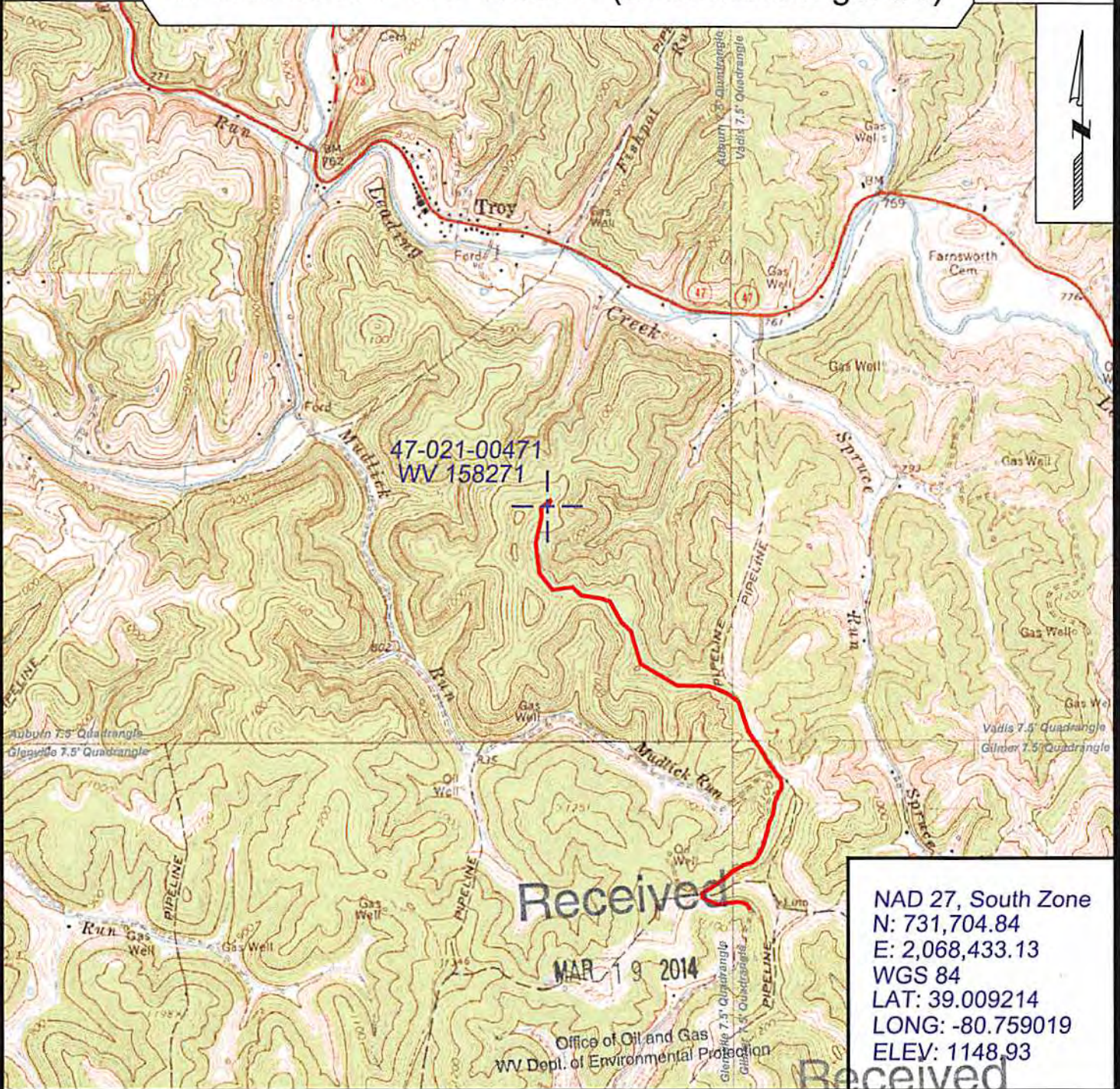
Date: March 5, 2014

District: Troy

Project No: 25-19-00-07

47-021-00471 WV 158271 (B. S. Messenger #3)

Topo



NAD 27, South Zone
 N: 731,704.84
 E: 2,068,433.13
 WGS 84
 LAT: 39.009214
 LONG: -80.759019
 ELEV: 1148.93

MAR 19 2014

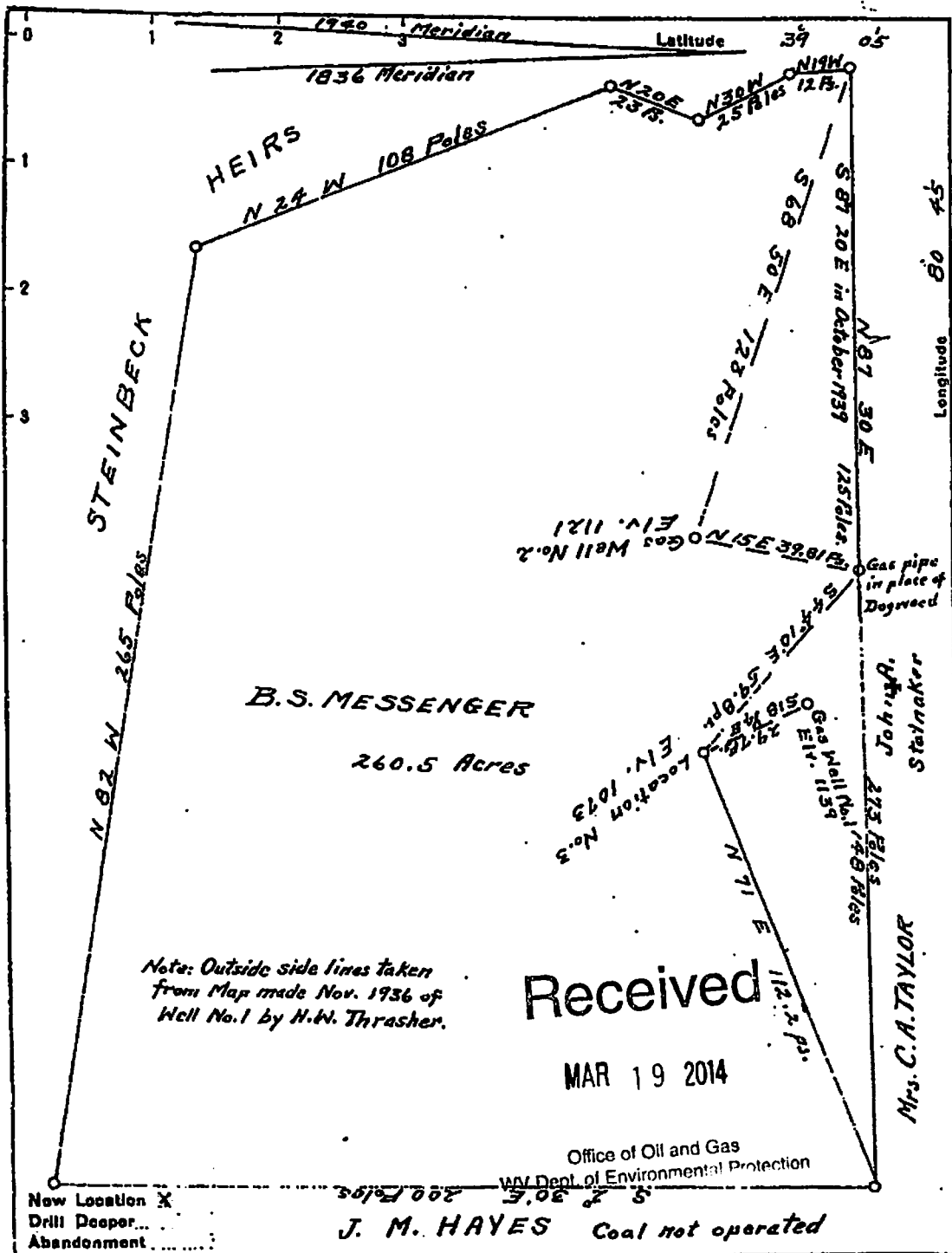
Office of Oil and Gas
WV Dept. of Environmental Protection



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
 P.O. Box 280
 Bridgeport, WV 26330
 Office of Oil and Gas
 WV Dept. of Environmental Protection

04/25/2014



Note: Outside side lines taken from Map made Nov. 1936 of Well No. 1 by H.W. Thrasher.

Received

MAR 19 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

New Location X
Drill Deeper...
Abandonment.....

J. M. HAYES Coal not operated

Company F. G. Bish
 Address Clarksburg, W. Va.
 Farm B. S. Messenger
 Tract _____ Acres 260.5 Lease No. _____
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spirit Level) 1073
 Quadrangle Halbrook
 County Gilmer District Tray
 Engineer C. C. Fitts, C. E.
 Engineer's Registration No. 818
 File No. XYZ Drawing No. 163
 Date Nov. 30, 1940 Scale 30 Poles = 1 inch

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

WELL LOCATION MAP
FILE NO. GIL-471

+ 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.

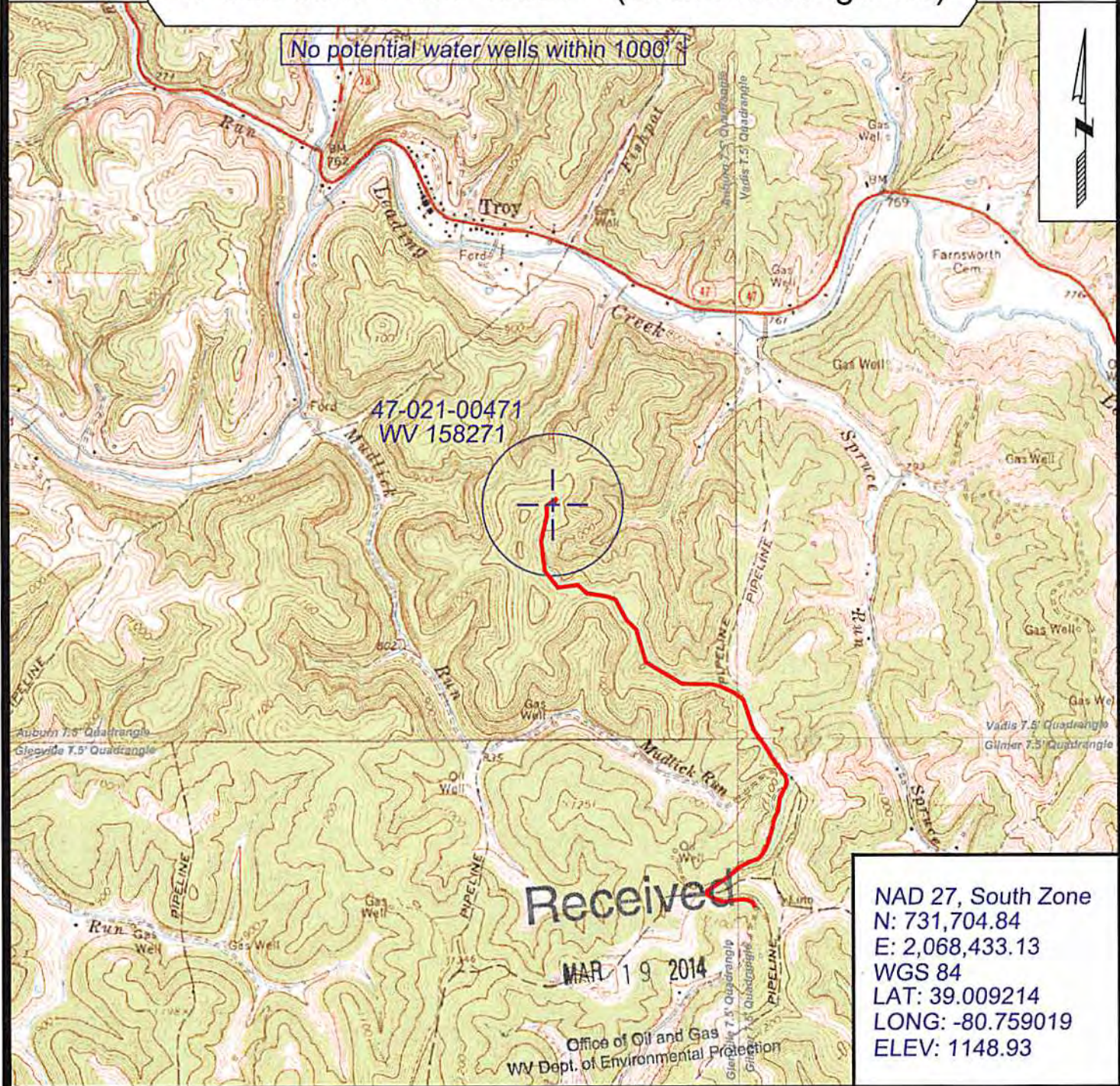
- Denotes one inch spaces on border line of original tracing.

16551

2100471 P

Topo Quad: Auburn 7.5' Scale: 1" = 2000'
 County: Gilmer Date: March 5, 2014
 District: Troy Project No: 25-19-00-07

Water 47-021-00471 WV 158271 (B. S. Messenger #3)



NAD 27, South Zone
 N: 731,704.84
 E: 2,068,433.13
 WGS 84
 LAT: 39.009214
 LONG: -80.759019
 ELEV: 1148.93



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

04/25/2014

2100471A



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. B. S. Messenger #3 - WV 158271 - API No. 47-021-00471

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 158271.

Received

MAR 19 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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

2100471A

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

Date: 3-17-14
Operator's Well _____
Well No. 158271 B.S. Messenger #3
API Well No.: 47 021 - 00471

CK 17273
10000

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: 1149' Watershed: Mudlick Run of Tanner Creek of Little Kanawha River
Location: Troy 4 County: Gilmer Quadrangle: Auburn 7.5' 224
District: _____
- 6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place Address: 120 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) Oil & Gas Bryan Harris 9) Plugging Contractor:
Name: P.O. Box 157 Name: HydroCarbon Well Service
Address: Volga, WV 26238 Address: PO BOX 995
Buckhannon, WV 26201

- 10) Work Order: The work order for the manner of plugging this well is as follows:
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OFFICE USE ONLY

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Work order approved by inspector _____

Date Received

MAR 19 2014