



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Monday, August 15, 2016
WELL WORK PERMIT
Horizontal 6A / Horizontal 6A Well - 1

EQT PRODUCTION COMPANY
120 PROFESSIONAL PLACE

BRIDGEPORT, WV 26330

Re: Permit approval for 514119
47-017-06774-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: 514119
Farm Name: MEYER, ELEANOR
U.S. WELL NUMBER: 47-017-06774-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: 8/15/2016

Promoting a healthy environment.

08/19/2016

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Production Company 306686 Doddridge West Union West Union
Operator ID County District Quadrangle

2) Operator's Well Number: 514119 Well Pad Name: WEU8

3) Farm Name/Surface Owner: Eleanor Meyer Public Road Access: RT50

4) Elevation, current ground: 1071 Elevation, proposed post-construction: 1071

5) Well Type (a) Gas Oil Underground Storage
Other
(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6640' TVD, 2951 PSI, Top of Marcellus 6619

8) Proposed Total Vertical Depth: 6640

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13906

11) Proposed Horizontal Leg Length: 4727

12) Approximate Fresh Water Strata Depths: 119, ,263, 294, 642

13) Method to Determine Fresh Water Depths: By Offset wells

14) Approximate Saltwater Depths: 1695, 1844

15) Approximate Coal Seam Depths: 213, 830

16) Approximate Depth to Possible Void (coal mine, karst, other): None reported

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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5/23/16

18)

CASING AND TUBING PROGRAM

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|--------------|-----------|-------------|-------|------------------------|----------------------------|--|-------------------------------|
| Conductor | 20 | New | A-500 | 78.6 | 40 | 40 | 60 ft ³ / CTS |
| Fresh Water | 13 3/8 | New | J-55 | 54.5 | 933 | 933 | 821 ft ³ / CTS |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | New | P-110 | 40 | 5460 | 5460 | 2148 ft ³ / CTS |
| Production | 5 1/2 | New | P-110 | 20 | 13906 | 13906 | 500' above top producing zone |
| Tubing | 2 3/8 | | J-55 | 4.7 | | May not be run, if run set 40' above top perf or 80° inclination | |
| Liners | | | | | | | |

| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|------------------------|---------------------|----------------------|--|--------------|--------------------------|
| Conductor | 20 | 26 | .375 | 1378 | 1102 | Class A | 1.18 |
| Fresh Water | 13 3/8 | 17 1/2 | .38 | 2700 | 2160 | See Variance | 1.19 |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | 12 3/8 | .395 | 7900 | 6320 | See Variance | 1.19 |
| Production | 5 1/2 | 8 1/2 | .361 | 12640 | 10112 | H | 1.07/1.86 |
| Tubing | 2 3/8 | NA | .19 | 7700 | | | |
| Liners | | | | | | | |

PACKERS

| | | | | |
|-------------|--|--|--|--|
| Kind: | | | | |
| Sizes: | | | | |
| Depths Set: | | | | |

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5/23/16

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 4158'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): +/- 15.1

22) Area to be disturbed for well pad only, less access road (acres): +/- 3.1

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives
 Surface (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries. .25% Flake. Loss Circulation Material (LCM)
 Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries. 0.25% flake. Loss Circulation Material (LCM)
 Production:
 Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
 Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss). .2% SuperFL-300 (fluid loss) reduces amount of water lost to formation. 60 % Calcium Carbonate. Acid solubility.

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25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
 Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
 Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

470 170 6774

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: WEU8

Doddridge County, WV

8/10/16

RECEIVED
Office of Oil and Gas
AUG 12 2016
WV Department of
Environmental Protection

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Doddridge County, WV prior to hydraulic fracturing at the following EQT wells on the WEU8 pad: 514119.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,600' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,200' TVD).

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Conventional Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

Upon approval of this plan, EQT will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in **Attachment B**.

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to EQT and the OOG in the event of any changes in their well conditions.

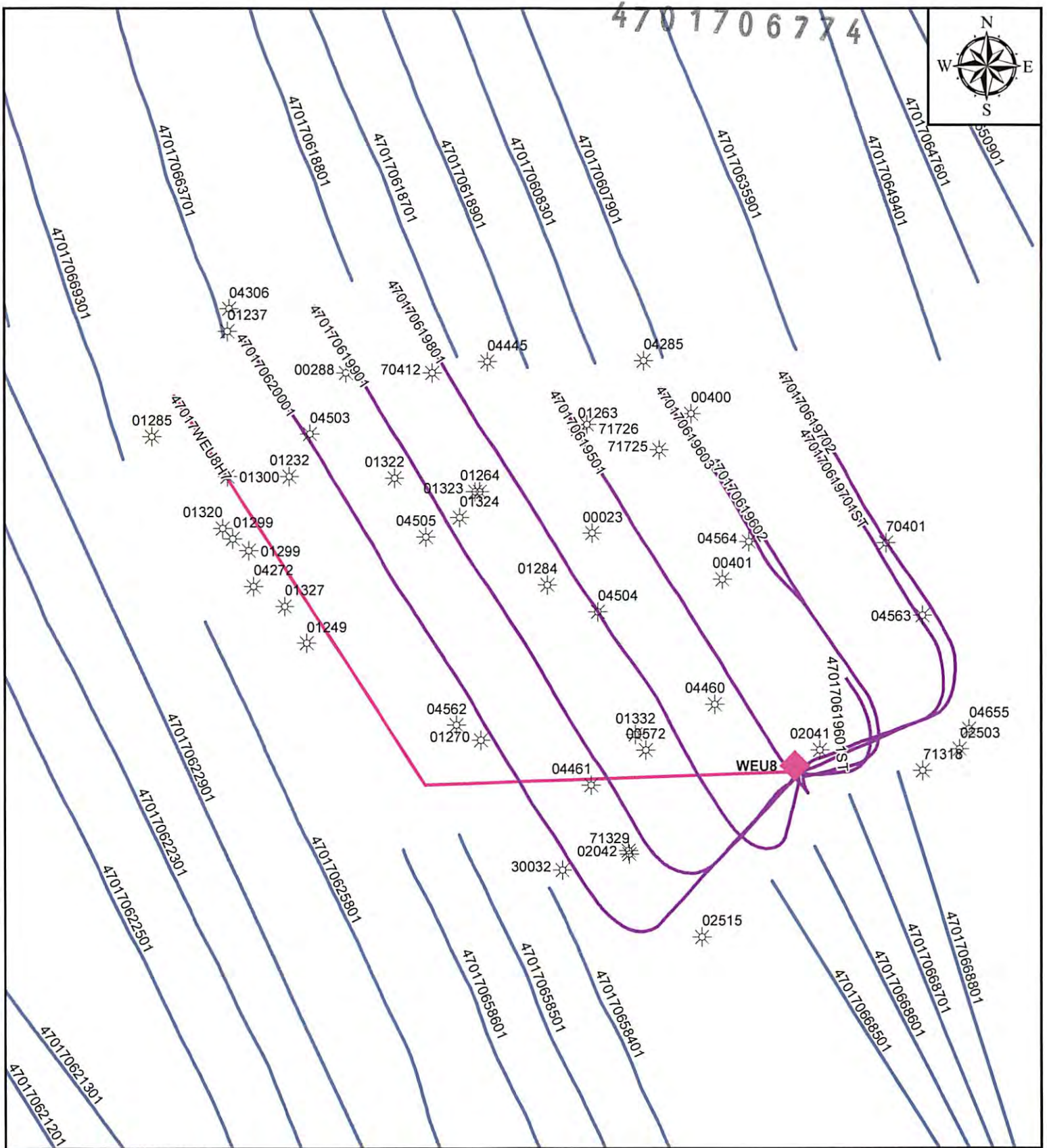
Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

4701706774



EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

WEU8

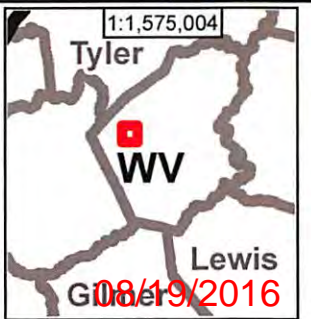
**Vertical Offsets and
Foreign Laterals
within 500'**

- WEU8 Vertical Offset
- Geneseo Spud
- Marcellus Spud
- Middlesex Spud
- Utica Spud
- GENESE0
- MARCELLUS
- MIDDLESEX
- POINT PLEASANT
- UTICA



Disclaimer:

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.



4701706774

| WellID | WellStatus | COMP DATE | FmatTD | Permit | Operator | Longitude | Latitude | TargetFm | DATUM | ELEVATION | SS DEPTH | TD |
|------------|------------|------------|--------|--------|--------------------------------------|-----------|----------|-------------------------|-------|-----------|------------|---------|
| 4701701249 | O&G | 6/9/1965 | | 01249 | GEORGE MOSES | -80.8276 | 39.2735 | | | 901 | -1229.0000 | 2130.00 |
| 4701701285 | OIL | 8/30/1965 | | 01285 | GEORGE MOSES | -80.8332 | 39.2793 | | | 1133 | -1147.0000 | 2280.00 |
| 4701701299 | OIL-P | 9/11/1965 | | 01299 | MANN DRILLING | -80.8297 | 39.2761 | | | 1108 | -1151.0000 | 2259.00 |
| 4701701324 | PSEUDO | | | 01324 | MANN DRILLING | -80.8221 | 39.2770 | | | 0 | | 0.00 |
| 4701770412 | PSEUDO | | | 70412 | SOUTH PENN OIL | -80.8230 | 39.2811 | | | 0 | | 0.00 |
| 4701700023 | D&A-OG | 2/15/1930 | | 00023 | PITTSBURGH & W VA GAS | -80.8172 | 39.2766 | DEVONIAN UPPER /SERIES/ | | 812 | | 2561.00 |
| 4701701237 | 1O&1G | 5/5/1965 | | 01237 | MOSES GEORGE W | -80.8305 | 39.2822 | BIG INJUN /SD/ | | 1078 | | 2280.00 |
| 4701704445 | GAS | 6/12/1998 | | 04445 | KEY OIL INCORPORATED | -80.8210 | 39.2814 | ALEXANDER | | 1078 | | 5520.00 |
| 4701701322 | ABD-GW | 10/13/1965 | | 01322 | MANN DRILLING | -80.8244 | 39.2781 | BIG INJUN /SD/ | | 990 | | 2078.00 |
| 4701702515 | GAS | 11/20/1979 | | 02515 | J & J ENTERPRISES | -80.8133 | 39.2653 | DEVONIAN /SD/ | | 1100 | | 5457.00 |
| 4701704562 | GAS | 7/5/2001 | | 04562 | KEY OIL COMPANY | -80.8222 | 39.2712 | DEVONIAN UPPER /SERIES/ | | 953 | | 5375.00 |
| 4701704564 | GAS | 6/23/2001 | | 04564 | KEY OIL COMPANY | -80.8116 | 39.2763 | DEVONIAN UPPER /SERIES/ | | 811 | | 5338.00 |
| 4701704460 | GAS | 12/22/1998 | | 04460 | DOMINION APPALACHIAN DEVELOPMENT INC | -80.8128 | 39.2718 | ALEXANDER | | 840 | | 5352.00 |
| 4701704461 | GAS | 12/8/1998 | | 04461 | DOMINION APPALACHIAN DEVELOPMENT INC | -80.8173 | 39.2695 | ALEXANDER | | 1048 | | 5475.00 |
| 4701704503 | GAS | 5/28/1999 | | 04503 | KEY OIL INCORPORATED | -80.8275 | 39.2794 | ALEXANDER | | 926 | | 5350.00 |
| 4701704504 | GAS | 5/21/1999 | | 04504 | KEY OIL INCORPORATED | -80.8171 | 39.2744 | ALEXANDER | | 1187 | | 5635.00 |
| 4701704505 | GAS | 5/14/1999 | | 04505 | KEY OIL INCORPORATED | -80.8233 | 39.2765 | ALEXANDER | | 977 | | 5408.00 |
| 4701704306 | GAS | 10/15/1996 | | 04306 | KEY OIL INCORPORATED | -80.8304 | 39.2829 | ALEXANDER | | 1110 | | 5512.00 |
| 4701704272 | GAS | 8/29/1996 | | 04272 | KEY OIL INCORPORATED | -80.8295 | 39.2751 | ALEXANDER | | 1175 | | 5590.00 |
| 4701704285 | GAS | 8/22/1996 | | 04285 | KEY OIL INCORPORATED | -80.8154 | 39.2814 | DEVONIAN /SD/ | | 1015 | | 5457.00 |
| 4701700288 | 1O&1G | 10/1/1959 | | 00288 | ALLEGHENY LAND & MINERAL | -80.8262 | 39.2811 | POCONO | | 975 | | 2151.00 |
| 4701701232 | ABDOGW | 3/1/1965 | | 01232 | MOSES GEORGE W | -80.8282 | 39.2782 | BIG INJUN /SD/ | | 979 | | 2080.00 |
| 4701701263 | 1O&1G | 6/1/1965 | | 01263 | MOSES GEORGE W | -80.8178 | 39.2795 | BIG INJUN /SD/ | | 1096 | | 2260.00 |
| 4701701264 | 1O&1G | 6/1/1965 | | 01264 | MOSES GEORGE W | -80.8213 | 39.2777 | BIG INJUN /SD/ | | 943 | | 2047.00 |
| 4701701270 | OIL | 7/1/1965 | | 01270 | MOSES GEORGE W | -80.8213 | 39.2708 | BIG INJUN /SD/ | | 923 | | 2155.00 |
| 4701701284 | GAS | 8/7/1965 | | 01284 | MOSES GEORGE W | -80.8189 | 39.2751 | POCONO | | 964 | | 2125.00 |
| 4701701299 | ABD-OW | 9/1/1965 | | 01299 | MANN DRILLING | -80.8303 | 39.2764 | BIG INJUN /SD/ | | 1108 | | 2259.00 |
| 4701701300 | OIL | 9/1/1965 | | 01300 | MANN DRILLING | -80.8305 | 39.2782 | BIG INJUN /SD/ | | 978 | | 2117.00 |
| 4701701320 | OIL | 9/1/1965 | | 01320 | MANN DRILLING | -80.8306 | 39.2767 | POCONO | | 1050 | | 2106.00 |
| 4701701323 | OIL | 11/1/1965 | | 01323 | MANN DRILLING | -80.8215 | 39.2777 | POCONO | | 935 | | 1976.00 |
| 4701701327 | OIL | 10/1/1965 | | 01327 | MANN DRILLING | -80.8284 | 39.2746 | POCONO | | 1180 | | 2251.00 |
| 4701701332 | D&A | 11/1/1965 | | 01332 | MANN DRILLING | -80.8157 | 39.2709 | POCONO | | 985 | | 2225.00 |
| 4701730032 | ABD-GW | 10/27/1915 | | 30032 | PITTSBURGH & W VA GAS | -80.8184 | 39.2671 | DEVONIAN UPPER /SERIES/ | | 1197 | | 2909.00 |
| 4701700400 | GAS | 9/28/1960 | | 00400 | WETZEL OLIN B | -80.8137 | 39.2799 | POCONO | | 812 | | 1905.00 |
| 4701700401 | GAS | 1/25/1961 | | 00401 | WETZEL OLIN B | -80.8125 | 39.2753 | BIG INJUN /SD/ | | 807 | | 1882.00 |
| 4701700572 | ABD-GW | 9/1/1961 | | 00572 | WETZEL OLIN B | -80.8153 | 39.2705 | BIG INJUN /SD/ | | 880 | | 2009.00 |
| 4701771329 | UNKWN | | | 71329 | J & J ENTERPRISES | -80.8159 | 39.2676 | | | 0 | | 0.00 |
| 4701771726 | UNKWN | | | 71726 | INDUSTRIAL GAS ASSOC | -80.8174 | 39.2796 | | | 0 | | 0.00 |
| 4701771725 | UNKWN | | | 71725 | PHILADELPHIA OIL | -80.8148 | 39.2789 | | | 0 | | 0.00 |
| 4701702042 | ABD-GW | 6/21/1917 | | 02042 | EQT PRODUCTION COMPANY | -80.8160 | 39.2677 | SQUAW /SD/ | | 752 | | 1939.00 |
| 4701770401 | PSEUDO | | | 70401 | PHILADELPHIA OIL | -80.8066 | 39.2763 | | | 0 | | 0.00 |
| 4701702503 | GAS | 11/20/1979 | | 02503 | J & J ENTERPRISES | -80.8039 | 39.2705 | DEVONIAN /SH/ | | 825 | | 5211.00 |
| 4701704655 | GAS | 3/3/2002 | | 04655 | KEY OIL COMPANY | -80.8036 | 39.2711 | DEVONIAN UPPER /SERIES/ | | 1177 | | 5627.00 |
| 4701704563 | GAS | 6/30/2001 | | 04563 | KEY OIL COMPANY | -80.8053 | 39.2743 | DEVONIAN UPPER /SERIES/ | | 1118 | | 5619.00 |
| 4701702041 | GAS | 8/6/1917 | | 02041 | PHILADELPHIA OIL | -80.8090 | 39.2705 | POCONO | | 999 | | 2141.00 |
| 4701771318 | UNKWN | | | 71318 | UNKNOWN | -80.8053 | 39.2699 | | | 0 | | 0.00 |

| UWI | Name | Depth Top | Base Depth |
|----------------|----------------|-----------|------------|
| 47017013220000 | SALT SD 3 | 1690 | 1768 |
| 47017013220000 | LITTLE LIME | 1905 | 1924 |
| 47017013220000 | PENCIL CAVE | 1924 | 1946 |
| 47017013220000 | BIG LIME | 1946 | 2006 |
| 47017013220000 | BIG INJUN /SD/ | 2006 | |
| 47017042850000 | LITTLE LIME | 1950 | 1990 |
| 47017042850000 | BIG LIME | 1995 | 2044 |
| 47017042850000 | BIG INJUN /SD/ | 2044 | 2127 |
| 47017042850000 | WEIR /SD/ | 2279 | 2394 |
| 47017042850000 | BEREA | 2477 | 2484 |
| 47017042850000 | GORDON /SD/ | 2680 | 2716 |
| 47017042850000 | WARREN /SD/ | 3345 | 3410 |
| 47017042850000 | SPEECHLEY | 3420 | 3532 |
| 47017042850000 | BALLTOWN /SD/ | 3846 | 4476 |
| 47017042850000 | RILEY /SD/ | 4510 | 4573 |
| 47017042850000 | RILEY 2 | 4760 | 4834 |
| 47017042850000 | RILEY 3 | 4886 | 4920 |
| 47017042850000 | BENSON /SD/ | 4968 | 4978 |
| 47017042850000 | ALEXANDER | 5212 | 5304 |
| 47017025030000 | LITTLE LIME | 1665 | 1680 |
| 47017025030000 | BIG LIME | 1680 | 1765 |
| 47017025030000 | BIG INJUN /SD/ | 1765 | 1790 |
| 47017025030000 | WEIR /SD/ | 2000 | 2090 |
| 47017025030000 | ALEXANDER | 4900 | |
| 47017045630000 | LITTLE LIME | 2022 | 2035 |
| 47017045630000 | BIG LIME | 2066 | 2202 |
| 47017045630000 | BIG INJUN | 2202 | 2247 |
| 47017045630000 | WARREN /SD/ | 3459 | 3490 |
| 47017045630000 | BALLTOWN /SD/ | 3869 | 3950 |
| 47017045630000 | RILEY /SD/ | 4652 | |
| 47017045630000 | BENSON /SD/ | 5050 | 5065 |
| 47017045630000 | ALEXANDER | 5310 | 5342 |
| 47017025150000 | BIG LIME | 1960 | 2040 |
| 47017025150000 | BIG INJUN /SD/ | 2040 | 2125 |
| 47017025150000 | WEIR /SD/ | 2296 | 2408 |
| 47017025150000 | BENSON /SD/ | 4928 | 4937 |
| 47017025150000 | ALEXANDER | 5250 | 5318 |
| 47017042720000 | LITTLE LIME | 2148 | 2161 |
| 47017042720000 | BIG LIME | 2182 | 2262 |
| 47017042720000 | BIG INJUN /SD/ | 2262 | 2315 |
| 47017042720000 | WEIR /SD/ | 2474 | 2597 |
| 47017042720000 | WARREN /SD/ | 3536 | 3606 |
| 47017042720000 | SPEECHLEY | 3614 | 3730 |
| 47017042720000 | BALLTOWN /SD/ | 3960 | 4664 |
| 47017042720000 | RILEY /SD/ | 4693 | 5101 |
| 47017042720000 | BENSON /SD/ | 5144 | 5156 |

Perforated formation

| | | | |
|----------------|----------------|------|------|
| 47017042720000 | ALEXANDER | 5392 | 5474 |
| 47017043060000 | LITTLE LIME | 2065 | 2104 |
| 47017043060000 | BIG LIME | 2104 | 2176 |
| 47017043060000 | BIG INJUN /SD/ | 2176 | 2246 |
| 47017043060000 | WEIR /SD/ | 2400 | 2523 |
| 47017043060000 | WARREN /SD/ | 3467 | 3534 |
| 47017043060000 | SPEECHLEY | 3544 | 3662 |
| 47017043060000 | BALLTOWN /SD/ | 3858 | 4494 |
| 47017043060000 | RILEY /SD/ | 4627 | 4708 |
| 47017043060000 | RILEY 3 | 4962 | 5030 |
| 47017043060000 | BENSON /SD/ | 5072 | 5084 |
| 47017043060000 | ALEXANDER | 5321 | 5408 |
| 47017045620000 | LITTLE LIME | 1902 | 1950 |
| 47017045620000 | BIG LIME | 1950 | 2090 |
| 47017045620000 | BIG INJUN | 2090 | 2136 |
| 47017045620000 | BALLTOWN /SD/ | 3750 | 3900 |
| 47017045620000 | RILEY /SD/ | 4505 | 4525 |
| 47017045620000 | BENSON /SD/ | 4925 | 4931 |
| 47017045620000 | ALEXANDER | 5104 | 5136 |
| 47017044450000 | LITTLE LIME | 2048 | 2084 |
| 47017044450000 | BIG LIME | 2084 | 2142 |
| 47017044450000 | BIG INJUN /SD/ | 2142 | 2224 |
| 47017044450000 | WEIR /SD/ | 2378 | 2495 |
| 47017044450000 | WARREN /SD/ | 3440 | 3509 |
| 47017044450000 | SPEECHLEY | 3518 | 3633 |
| 47017044450000 | BALLTOWN /SD/ | 3830 | 4568 |
| 47017044450000 | RILEY /SD/ | 4601 | 4674 |
| 47017044450000 | RILEY 2 | 4848 | 4909 |
| 47017044450000 | RILEY 3 | 4950 | 5010 |
| 47017044450000 | BENSON /SD/ | 5058 | 5066 |
| 47017044450000 | ALEXANDER | 5300 | |
| 47017044600000 | LITTLE LIME | 1712 | 1756 |
| 47017044600000 | BIG LIME | 1756 | 1834 |
| 47017044600000 | BIG INJUN /SD/ | 1834 | 2472 |
| 47017044600000 | GORDON /SD/ | 2472 | 3140 |
| 47017044600000 | WARREN /SD/ | 3140 | 3301 |
| 47017044600000 | BALLTOWN /SD/ | 3301 | 3952 |
| 47017044600000 | BRADFORD /SD/ | 3952 | 4562 |
| 47017044600000 | RILEY /SD/ | 4562 | 4764 |
| 47017044600000 | BENSON /SD/ | 4764 | 5020 |
| 47017044600000 | ALEXANDER | 5020 | |
| 47017044610000 | BIG LIME | 1981 | 2106 |
| 47017044610000 | BIG INJUN /SD/ | 2106 | 2701 |
| 47017044610000 | GORDON /SD/ | 2701 | 3398 |
| 47017044610000 | WARREN /SD/ | 3398 | 3546 |
| 47017044610000 | BALLTOWN /SD/ | 3546 | 4177 |
| 47017044610000 | BRADFORD /SD/ | 4177 | 4817 |

4701706774

| | | | |
|----------------|----------------|------|------|
| 47017044610000 | RILEY /SD/ | 4817 | 5005 |
| 47017044610000 | BENSON /SD/ | 5005 | 5208 |
| 47017044610000 | ALEXANDER | 5208 | |
| 47017045040000 | LITTLE LIME | 2092 | 2106 |
| 47017045040000 | BIG LIME | 2134 | 2234 |
| 47017045040000 | BIG INJUN /SD/ | 2234 | 2268 |
| 47017045040000 | WEIR /SD/ | 2425 | 2542 |
| 47017045040000 | BEREA | 2615 | 2629 |
| 47017045040000 | GORDON /SD/ | 2826 | 2840 |
| 47017045040000 | WARREN /SD/ | 3494 | 3558 |
| 47017045040000 | SPEECHLEY | 3569 | 3681 |
| 47017045040000 | BALLTOWN /SD/ | 3881 | 4627 |
| 47017045040000 | RILEY /SD/ | 4661 | 4742 |
| 47017045040000 | RILEY 2 | 4912 | 4965 |
| 47017045040000 | RILEY 3 | 5030 | 5072 |
| 47017045040000 | BENSON /SD/ | 5120 | 5128 |
| 47017045040000 | ALEXANDER | 5365 | |
| 47017045050000 | LITTLE LIME | 1922 | |
| 47017045050000 | BIG LIME | 1967 | 2024 |
| 47017045050000 | BIG INJUN /SD/ | 2024 | 2257 |
| 47017045050000 | WEIR /SD/ | 2257 | 2455 |
| 47017045050000 | BEREA | 2455 | 3318 |
| 47017045050000 | WARREN /SD/ | 3318 | 3397 |
| 47017045050000 | SPEECHLEY | 3397 | 3702 |
| 47017045050000 | BALLTOWN /SD/ | 3702 | 4484 |
| 47017045050000 | RILEY /SD/ | 4484 | 4854 |
| 47017045050000 | RILEY 3 | 4854 | 4934 |
| 47017045050000 | BENSON /SD/ | 4934 | 5182 |
| 47017045050000 | ALEXANDER | 5182 | |
| 47017045640000 | BIG LIME | 1767 | 1905 |
| 47017045640000 | BIG INJUN | 1905 | 1957 |
| 47017045640000 | WARREN /SD/ | 3160 | 3192 |
| 47017045640000 | BALLTOWN /SD/ | 3570 | 3640 |
| 47017045640000 | RILEY /SD/ | 4335 | 4365 |
| 47017045640000 | BENSON /SD/ | 4760 | 4770 |
| 47017045640000 | ALEXANDER | 5018 | 5050 |
| 47017046550000 | LITTLE LIME | 2020 | 2060 |
| 47017046550000 | BIG LIME | 2060 | 2194 |
| 47017046550000 | BIG INJUN | 2194 | 2264 |
| 47017046550000 | WARREN /SD/ | 3450 | 3490 |
| 47017046550000 | BALLTOWN /SD/ | 3990 | 4140 |
| 47017046550000 | RILEY /SD/ | 4640 | 4680 |
| 47017046550000 | BENSON /SD/ | 5030 | 5050 |
| 47017046550000 | ALEXANDER | 5290 | 5360 |

08/19/2016



(date)

[Conventional Well Operator]
[address]
[state]

RE: Doddridge County Hydraulic Fracturing Notice

Dear Sir/Madam,

EQT has developed a Marcellus pad (West Union 8 pad) located in Doddridge County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,600' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,200' TVD).

EQT anticipates conducting hydraulic fracturing at the West Union 8 pad during the [first,second, third, fourth] quarter of [year]. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during, and after fracturing operations:

1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified.

Please feel free to contact me at 412-395-3305 with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0440.

Sincerely,
EQT Production

John Centofanti
Corporate Director, Environmental Affairs

cc: James Martin, WV Office of Oil and Gas

08/19/2016

17-06774



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
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

IN THE MATTER OF A VARIANCE FROM) ORDER NO. 2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1)
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE)
THE OPERATIONAL)
REGULATIONS OF CEMENTING OIL)
AND GAS WELLS)

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

1.) Nabors Completion & Production Services Co. proposes the following cement blend:

- 2% Calcium Chloride (Accelerator)
- 0.25 % Super Flake (Lost Circulation)
- 94% Type "1" Cement
- 5.20 % Water

2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

Promoting a healthy environment.

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MAY 09 2016

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CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OF THE STATE OF WEST VIRGINIA



James Martin, Chief
Office of Oil and Gas

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WW-9
(2/15)

API Number 47 - 017 - 06774
Operator's Well No. 514119

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Middle Run and Arnold Creek Quadrangle West Union

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? n/a

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 0014, 8462, 4037)
- Reuse (at API Number Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes. The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility. _____

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached List

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term 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 J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 9 day of June, 20 16

Rebecca J. Wanstreet Notary Public

My commission expires 4-7-20



WW-9 Attachment

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

- Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.

Additives to be used in drilling medium?

- Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud – Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

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EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed No Additional Prevegetation pH 6.8

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

| Temporary | | Permanent | |
|---------------|----------|---------------|----------|
| 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 (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: [Signature]

Date: 5/24/16

Field Reviewed? () Yes () No

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Office of Oil & Gas

MAY 27 2016

17-06774

EQT Production Water plan
Offsite disposals for Marcellus wells

CWS TRUCKING INC.

P.O. Box 391
Williamstown, WV 26187
740-516-3586
Noble County/Noble Township
Permit # 3390

BROAD STREET ENERGY LLC

37 West Broad Street
Suite 1100
Columbus, Ohio 43215
740-516-5381
Washington County/Belpre Twp.
Permit # 8462

LAD LIQUID ASSETS DISPOSAL INC.

226 Rankin Road
Washington, PA 15301
724-350-2760
724-222-6080
724-229-7034 fax
Ohio County/Wheeling
Permit # USEPA WV 0014

TRIAD ENERGY

P.O. Box 430
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobel County/Jackson Township
Permit # 4037

TRI COUNTY WASTE WATER MANAGEMENT, INC.

1487 Toms Run Road
Holbrook, PA 15341
724-627-7178 Plant
724-499-5647 Office
Greene County/Waynesburg
Permit # TC-1009

KING EXCAVATING CO.

Advanced Waste Services
101 River Park Drive
New Castle, Pa. 16101
Facility Permit# PAR000029132

Waste Management - Meadowfill Landfill

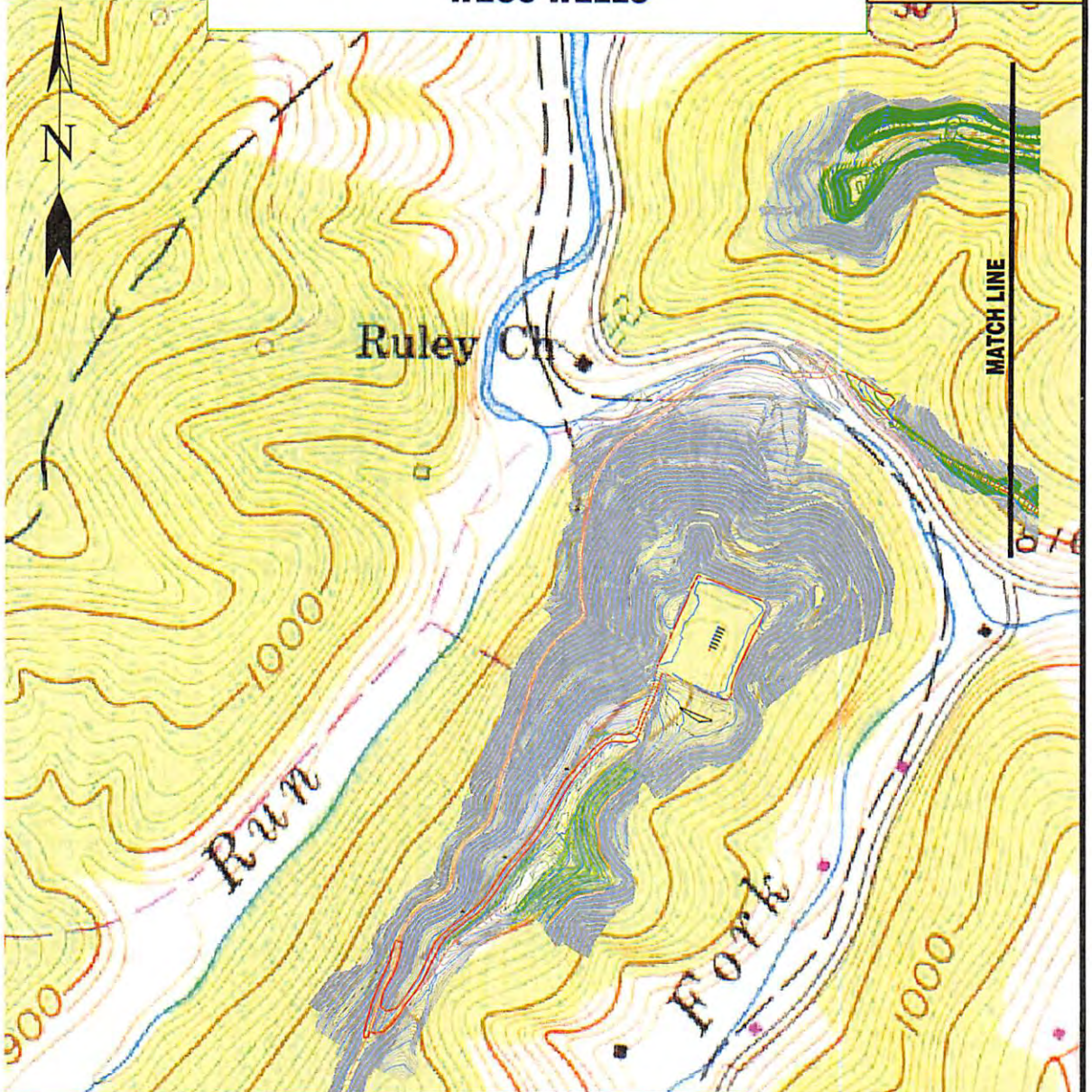
Rt. 2, Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98
Approval #100785WV

Waste Management - Northwestern Landfill

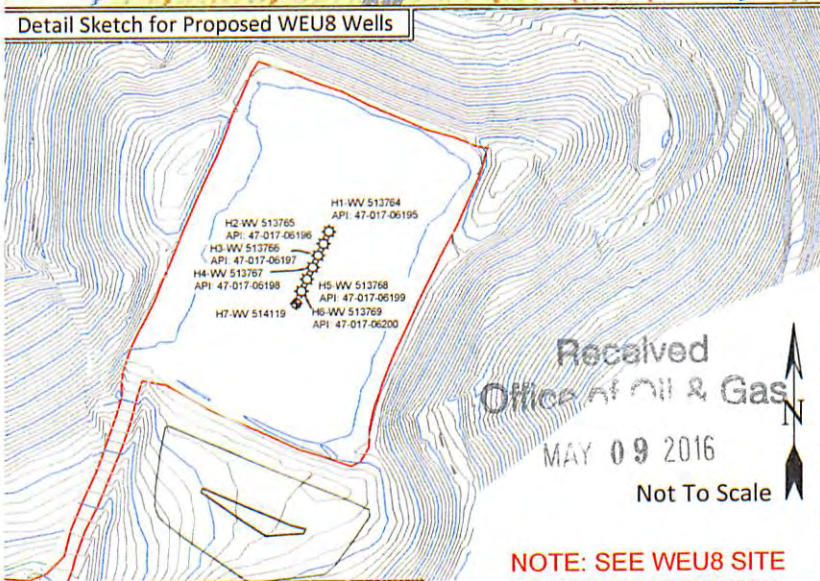
512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV

Received
Office of Oil & Gas
MAY 09 2016

08/19/2016

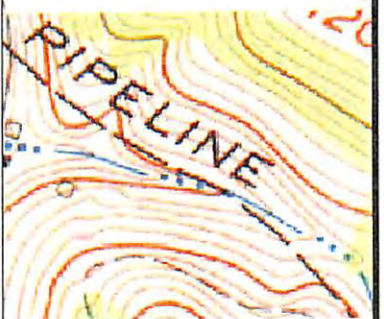


Detail Sketch for Proposed WEU8 Wells



NOTE: SEE WEU8 SITE PLAN & AS-BUILT FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

NOTE: SEE WEU8 SITE PLAN & AS-BUILT FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS



SHEET 1 OF 2
SCALE: 1"=500'



| | | | |
|--------------------|------------------|------------------|----------------------------------|
| DRAWN BY K.D.W. | FILE NO. 7746 | DATE 03-11-16 | CADD FILE: 7746WEU8RECPAN.dwg |
|--------------------|------------------|------------------|----------------------------------|

TOPO SECTIONS OF WEST UNION
7.5' TOPO QUADRANGLE



Where energy meets innovation.™

Site Specific Safety Plan

EQT WEU 8 Pad
West Union Quadrant
West Union
Doddridge County, WV

5/4/19 For Wells: _____

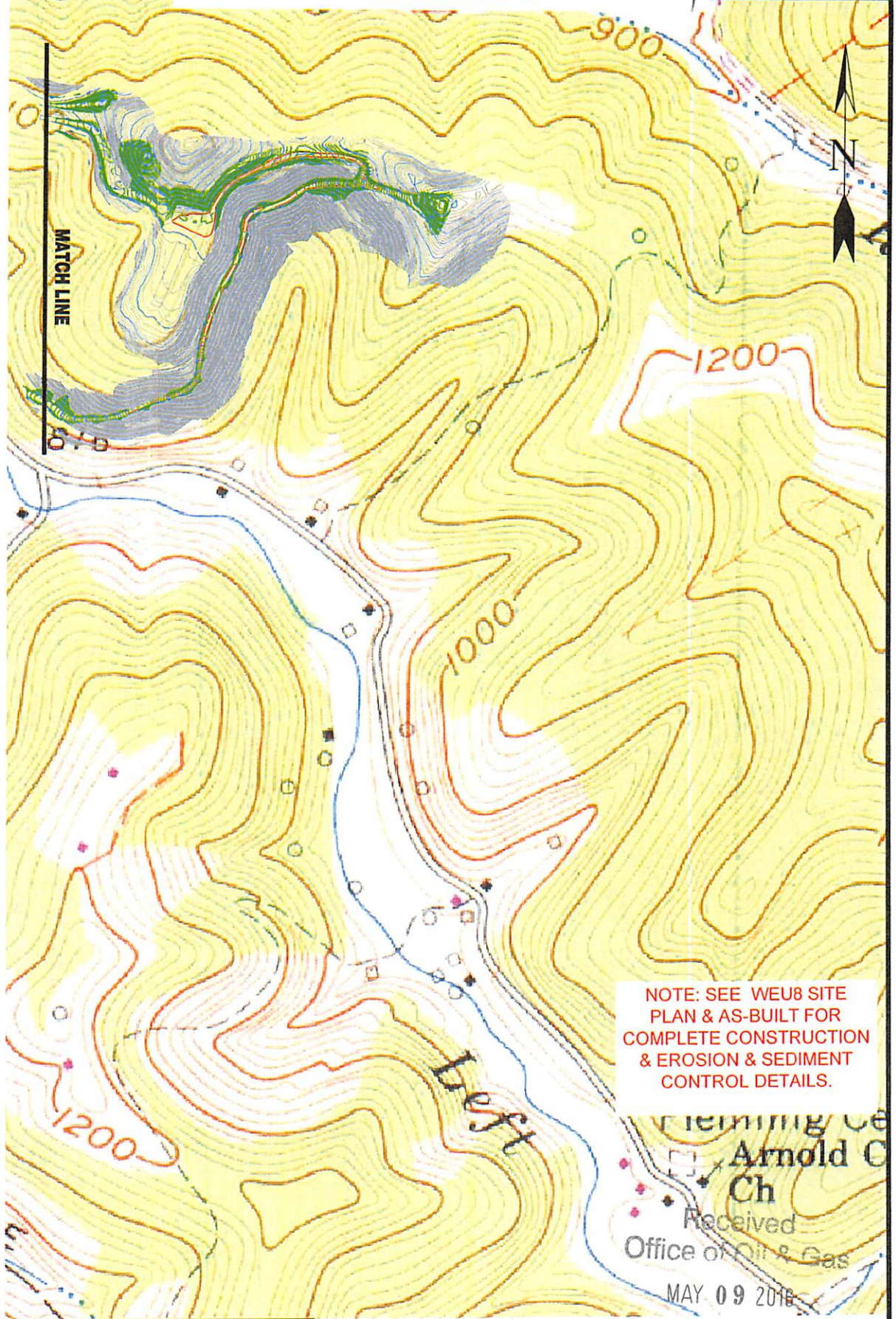
[Signature]
 EQT Production
Permitting Supervisor
 Title
5-4-16
 Date

Date Prepared:

March 22, 2016

[Signature]
 WV Oil and Gas Inspector
 Title
5/24/16
 Date

Received
 Office of Oil & Gas
 MAY 27 2016



NOTE: SEE WEU8 SITE PLAN & AS-BUILT FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

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| | | | |
|--------------------|------------------|------------------|----------------------------------|
| DRAWN BY K.D.W. | FILE NO. 7746 | DATE 03-11-16 | CADD FILE: 7746WEU8REPLAN.dwg |
|--------------------|------------------|------------------|----------------------------------|

TOPO SECTIONS OF WEST UNION
7.5' TOPO QUADRANGLE

SHEET 2 OF 2
SCALE: 1"=500'



17-06774

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Lease Name or Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|----------------------|-----------------------|-----------------------|---------|-----------|
| See Attached | | | | |

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company
 By: Victoria Roark
 Its: Permitting Supervisor

Victoria Roark
 Received
 Office of Oil & Gas
 MAY 09 2016

17-06774

| Lease No. | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|---------------|---|--|---------|------------|
| 107497 | Susan J. Childers, et al (current royalty owner) | | *** | |
| | Lewis Maxwell , et ux (original lessor) | D.P. Stout | | LB 23/344 |
| | D.P. Stout | J.F. Donaldson | | LB 24/77 |
| | J.F. Donaldson | Philadelphia Company of WV 1/2 Int. in Leasehold | | LB 24/80 |
| | Sara Donaldson | J.D. Foley 1/2 int. in Leasehold | | DB 126/120 |
| | J.D. Foley | Equitable Gas Company 1/2 int. in Leasehold | | LB 62/6 |
| | Equitable Gas Company | Philadelphia Oil Company | | LB 74/214 |
| | Philadelphia Oil Company | Pittsburgh & WV Gas Co. | | DB 146/98 |
| | Pittsburgh & WV Gas Co. | Equitable Gas Company | | DB 187/321 |
| | Equitable Gas Company | Equitrans, Inc. All RTI | | LB 154/475 |
| | Equitrans, Inc. | Equitable Production Company | | LB 192/19 |
| | Equitable Production Company | EQT Production Merger-Name Change | | DB 281/346 |
| 107496 | Eugene R. Armstrong, et al (current royalty owner) | | *** | |
| | Joseph and Flora Freeman (original lessor) | J.F. Donaldson | | LB 22/430 |
| | J.F. Donaldson | The Philadelphia Company of WV | | LB 24/80 |
| | Philadelphia Company of WV | Pittsburgh & WV Gas Company | | LB 32/253 |
| | Pittsburgh & WV Gas Company | Equitable Gas Company | | DB 121/257 |
| | Equitable Gas Company | Equitrans, Inc. All RTI | | LB 154/475 |
| | Equitrans, Inc. | Equitable Production Company | | LB 192/19 |
| | Equitable Production Company | EQT Production Merger-Name Change | | DB 281/346 |

*** We will pay one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced or marketed from the well.

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08/19/2016

WEU8
WV 514119
EQT PRODUCTION COMPANY

BOTTOM HOLE

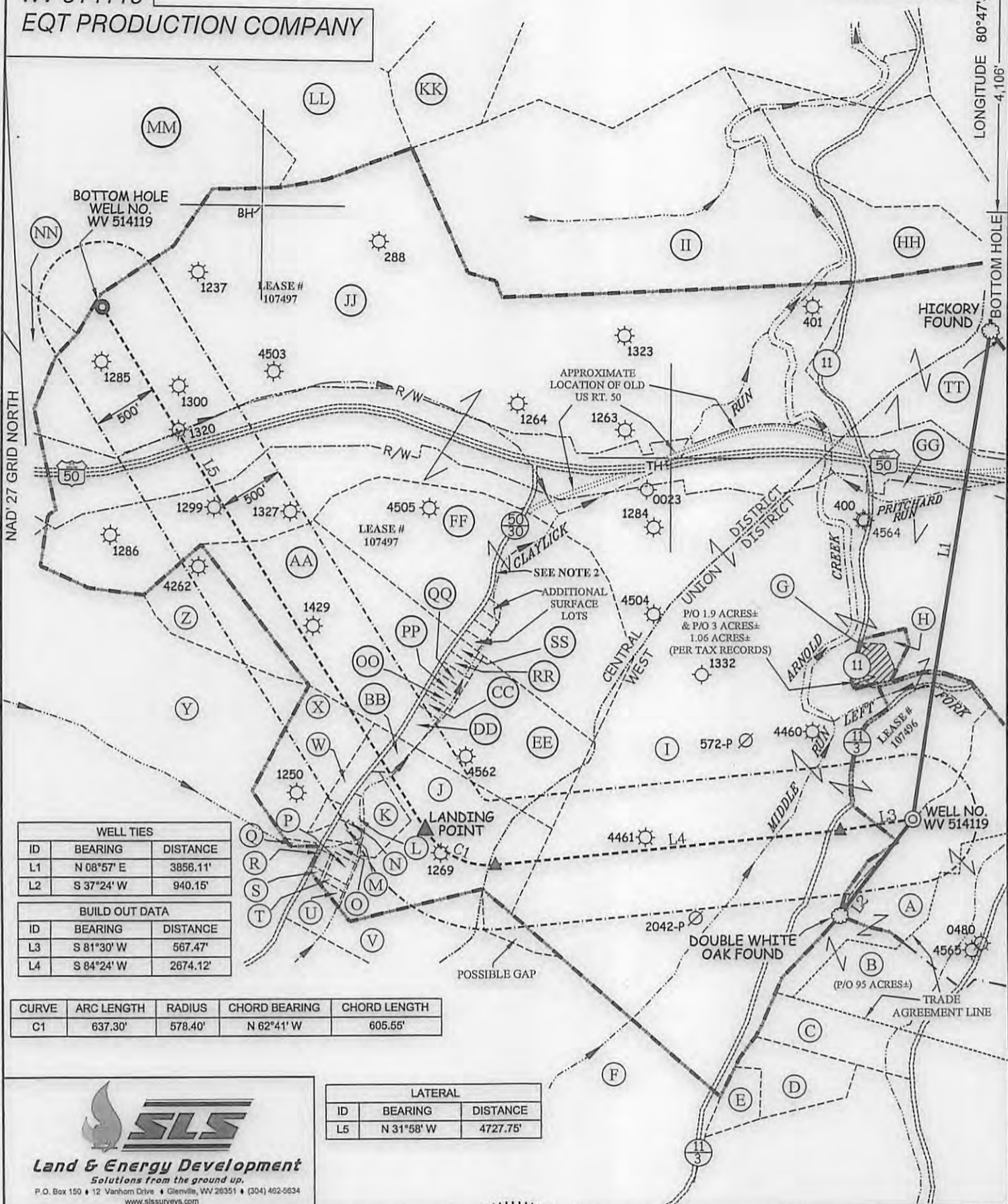
11,528'

LATITUDE 39°17'30"

LONGITUDE 80°47'30"

NAD'27 GRID NORTH

TOP HOLE 7,958'



| WELL TIES | | |
|-----------|------------|----------|
| ID | BEARING | DISTANCE |
| L1 | N 08°57' E | 3856.11' |
| L2 | S 37°24' W | 940.15' |

| BUILD OUT DATA | | |
|----------------|------------|----------|
| ID | BEARING | DISTANCE |
| L3 | S 81°30' W | 567.47' |
| L4 | S 84°24' W | 2674.12' |

| CURVE | ARC LENGTH | RADIUS | CHORD BEARING | CHORD LENGTH |
|-------|------------|---------|---------------|--------------|
| C1 | 637.30' | 578.40' | N 62°41' W | 605.55' |

| LATERAL | | |
|---------|------------|----------|
| ID | BEARING | DISTANCE |
| L5 | N 31°58' W | 4727.75' |

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C. VICTOR MOYERS
LICENSED
 No. 849
 STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR

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

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- CENTRAL DISTRICT TAX MAP-PARCEL C-00-00
- WEST UNION DISTRICT TAX MAP-PARCEL WU-00-00

| (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH) | | | |
|--|-------------------|--------------------|--|
| NAD'27 S.P.C.(FT) | N. 283,088.24 | E. 1,629,108.56 | |
| NAD'27 GEO. | LAT-(N) 39.269820 | LONG-(W) 80.810061 | |
| NAD'83 UTM (M) | N. 4,346,745.92 | E. 516,399.39 | |
| LANDING POINT | | | |
| NAD'27 S.P.C.(FT) | N. 283,021.52 | E. 1,625,347.95 | |
| NAD'27 GEO. | LAT-(N) 39.269485 | LONG-(W) 80.823338 | |
| NAD'83 UTM (M) | N. 4,346,706.45 | E. 515,254.07 | |
| BOTTOM HOLE | | | |
| NAD'27 S.P.C.(FT) | N. 287,032.13 | E. 1,622,844.62 | |
| NAD'27 GEO. | LAT-(N) 39.280394 | LONG-(W) 80.832389 | |
| NAD'83 UTM (M) | N. 4,347,915.54 | E. 514,471.05 | |

SCALE **1" = 1000'** FILE NO. **7746P514119R**

DATE **MARCH 11**, 20 **16**

REVISED **JULY 14**, 20 **16**

OPERATORS WELL NO. **WV 514119**

API WELL NO. **47** — **017** — **0677416A**

STATE **WV** COUNTY **PUTNAM** PERMIT **0677416A**

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

COUNTY NAME **PUTNAM**

PERMIT **0677416A**

08/19/2016

WELL OPERATOR **EQT PRODUCTION COMPANY** DESIGNATED AGENT **REX C. RAY**

ADDRESS **115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330** ADDRESS **115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330**

WEU8
WV 514119
EQT PRODUCTION COMPANY

BOTTOM HOLE ←

11,528'

LATITUDE 39°17'30"

LONGITUDE 80°47'30"

4,106'

BOTTOM HOLE

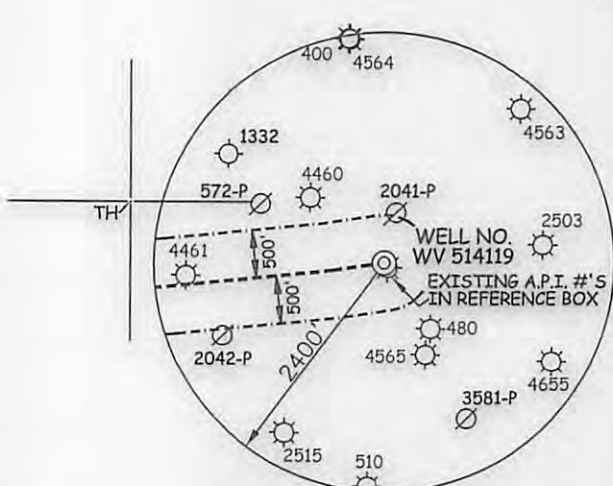
TOP HOLE

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 283,088.24 E. 1,629,108.56
 NAD'27 GEO. LAT-(N) 39.269820 LONG-(W) 80.810061
 NAD'83 UTM (M) N. 4,346,745.92 E. 516,399.39

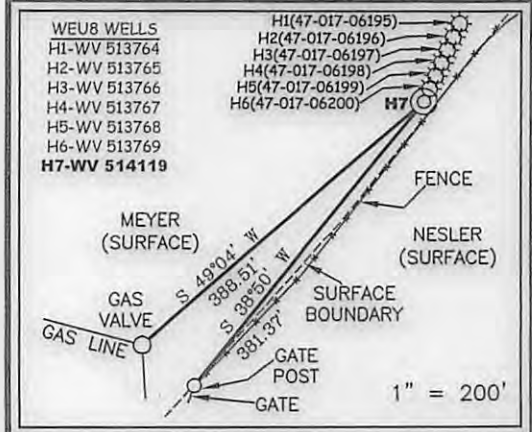
LANDING POINT
 NAD'27 S.P.C.(FT) N. 283,021.52 E. 1,625,347.95
 NAD'27 GEO. LAT-(N) 39.269485 LONG-(W) 80.823338
 NAD'83 UTM (M) N. 4,346,706.45 E. 515,254.07

BOTTOM HOLE
 NAD'27 S.P.C.(FT) N. 287,021.13 E. 1,622,844.62
 NAD'27 GEO. LAT-(N) 39.280394 LONG-(W) 80.832389
 NAD'83 UTM (M) N. 4,347,915.54 E. 514,471.05

| | | | |
|----|------------------------------|---------------|---------------|
| A | MARY NESLER | 59.15 ACRES± | TM WU-14-20 |
| B | MARY NESLER | 16.4 ACRES± | TM WU-14-13 |
| C | HOMER BROOKS ET AL | 10.1 ACRES± | TM WU-14-15.6 |
| D | CYNTHIA & HOMER BROOKS JR. | 2.9 ACRES± | TM WU-14-15 |
| E | CYNTHIA & HOMER BROOKS JR. | 6.5 ACRES± | TM WU-14-11 |
| F | LIVINGSTONE BEE | 49 ACRES± | TM WU-14-12 |
| G | RULEY CHURCH | 1.9 ACRES± | TM WU-14-8 |
| H | TRUSTEES OF M.P. CHURCH | 3 ACRES± | TM WU-14-8.1 |
| I | ELEANOR MEYER | 349.75 ACRES± | TM WU-14-06 |
| J | GREGORY CROSS ET AL | 3.04 ACRES± | TM C-10-25.11 |
| K | GREGORY CROSS ET AL | 3.54 ACRES± | TM C-10-25.15 |
| L | RYAN HOSKINSON | 0.56 ACRES± | TM C-10-25.10 |
| M | DAVID SCHWEINEBRATEN ET AL | 0.75 ACRES± | TM C-10-25.12 |
| N | DAVID SCHWEINEBRATEN ET AL | 0.01 ACRES± | TM C-10-25.14 |
| O | JILL MYERS | 1 ACRES± | TM C-10-25.7 |
| P | JOHN & SUE HILEMAN | LOTS 8 & 9 | TM C-10-25.1 |
| Q | DARRELL MOORE | 0.26 ACRES± | TM C-10-25.13 |
| R | JOHN & SUE HILEMAN | LOTS 2 & 3 | TM C-10-25.2 |
| S | DONALD & PAMELA SPONAUGLE | LOT 1 | TM C-10-25.9 |
| T | JOHN & SUE HILEMAN | LOT 7 | TM C-10-25.5 |
| U | DONALD & PAMELA SPONAUGLE | LOT 6 | TM C-10-25.6 |
| V | PAULINE GREAVER | 13 ACRES± | TM C-10-32 |
| W | RICHARD & ROBERTA TODD | 2.18 ACRES± | TM C-10-25.16 |
| X | DARRELL MOORE | 28.16 ACRES± | TM C-10-25 |
| Y | DARRELL MOORE | 125 ACRES± | TM C-10-20 |
| Z | DARRELL MOORE | 15 ACRES± | TM C-10-21 |
| AA | CARY & PATRICIA MEANS | 32.63 ACRES± | TM C-10-22 |
| BB | VIRGINIA CROSS | 1.05 ACRES± | TM C-10-25.17 |
| CC | JAMES & MARTHA MESSENGER | 0.37 ACRES± | TM C-10-24.02 |
| DD | MICHAEL SHEETS | 1.10 ACRES± | TM C-10-24.01 |
| EE | MICHAEL SHEETS | 33.53 ACRES± | TM C-10-24 |
| FF | MARK & CLARA MCGILL | 53.50 ACRES± | TM C-10-23 |
| GG | ANTHONY & LINDA ERVOLINA | 1.48 ACRES± | TM WU-14-05 |
| HH | SOLOMON TRUST | 20 ACRES± | TM C-10-05 |
| II | RALPH & JUDITH VALENTINE | 104.62 ACRES± | TM C-10-04 |
| JJ | ANTHONY MANCUSO | 217.64 ACRES± | TM C-10-03 |
| KK | ELLEN MARTIN | 41.26 ACRES± | TM C-07-87 |
| LL | ROBERT TOWNER ET AL | 34.71 ACRES± | TM C-07-86 |
| MM | MICHAEL & ROSALIND WEBB | 75.43 ACRES± | TM C-07-85 |
| NN | FOUR LEAF LAND COMPANY | 105.14 ACRES± | TM C-10-02 |
| OO | CLARA & MARVIN BRISSEY ET AL | 0.541 ACRES± | TM C-10-22.1 |
| PP | FREDDIE MOORE ET UX | 0.546 ACRES± | TM C-10-22.2 |
| QQ | MARY TOWNER | 0.551 ACRES± | TM C-10-22.5 |
| RR | MARY TOWNER | 0.58 ACRES± | TM C-10-22.4 |
| SS | WAYMAN POSTLEHWAITE ET AL | 0.564 ACRES± | TM C-10-22.3 |
| TT | A.D. PERINE | 2.91 ACRES± | TM C-14-1.2 |



REFERENCES



| ROYALTY OWNERS | | |
|-------------------------|----------|------------------|
| SUSAN J. CHILDERS ET AL | 960 AC.± | LEASE NO. 107497 |

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- CO. RT. 50/30 IN THIS AREA WAS FORMERLY KNOWN AS OLD US RT 50, PORTIONS OF WHICH WERE ALSO KNOWN AS OLD NORTHWEST TURNPIKE.

P.O. Box 150 • 12 Vanhook Drive • Glenville, WV 26031 • (304) 462-5834
 www.slsurveys.com

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 DIVISION OF ENVIRONMENTAL PROTECTION.



P.S. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MARCH 11, 20 16
 REVISED JULY 14, 20 16
 OPERATORS WELL NO. WV 514119
 API WELL NO. 47-017-06774
 STATE 47 COUNTY 017 PERMIT 06774

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7746P514119R
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION:
 PAD ELEVATION 1,071' WATERSHED MIDDLE RUN AND ARNOLD CREEK
 DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER ELEANOR MEYER ACREAGE 349.75±
 ROYALTY OWNER EUGENE R. ARMSTRONG ET AL ACREAGE 95±
 PROPOSED WORK:
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH 6,619'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

08/19/2016



17-06774

January 13, 2016

Mr. James Martin
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: WEU8 well pad, well number 514119
West Union District, Doddridge County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

Received
Office of Oil & Gas
MAY 09 2016

08/19/2016

Well 514119(WEU8H7)

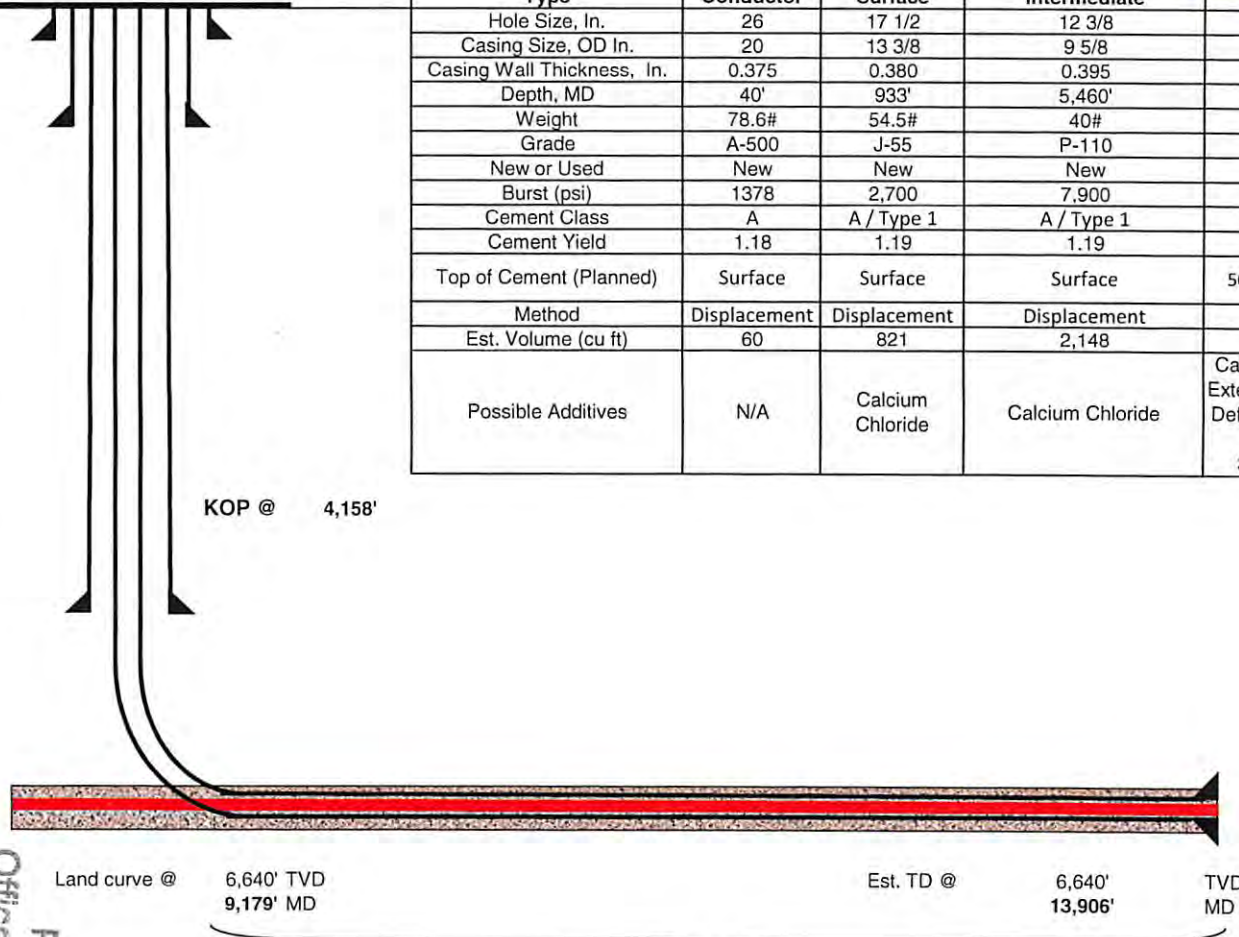
EQT Production
West Union Quad
Doddridge County, WV

Azimuth 328
 Vertical Section 7402

Note: Diagram is not to scale

| Formations | Top TVD | Base TVD |
|-------------------------|-------------|----------|
| Conductor | 40 | |
| Base Fresh Water | 642 | |
| Surface Casing | 933 | |
| Base Red Rock | 1139 | |
| Maxton | 1573 - 1740 | |
| Big Lime | 1987 - 2094 | |
| Big Injun | 2101 - 2125 | |
| Weir | 2225 - 2394 | |
| Gantz | 2477 - 2490 | |
| Fifty foot | 2604 - 2638 | |
| Thirty foot | 2677 - 2695 | |
| Gordon | 2759 - 2769 | |
| Forth Sand | 2808 - 2815 | |
| Bayard | 2890 - 2900 | |
| Warren | 3326 - 3401 | |
| Speechley | 3417 - 3523 | |
| Balltown A | 4009 - 4186 | |
| Riley | 4547 - 4574 | |
| Benson | 4968 - 4994 | |
| Alexander | 5220 - 5299 | |
| Intermediate Casing | 5349 | |
| Sonyea | 6284 - 6424 | |
| Middlesex | 6424 - 6476 | |
| Genesee | 6476 - 6541 | |
| Geneseo | 6541 - 6580 | |
| Tully | 6580 - 6601 | |
| Hamilton | 6601 - 6619 | |
| Marcellus | 6619 - 6674 | |
| Production Casing | 13906 MD | |
| Onondaga | 6674 | |

| Casing and Cementing | | | | Deepest Fresh Water: 642' |
|----------------------------|--------------|------------------|------------------|--|
| Type | Conductor | Surface | Intermediate | Production |
| Hole Size, In. | 26 | 17 1/2 | 12 3/8 | 8 1/2 |
| Casing Size, OD In. | 20 | 13 3/8 | 9 5/8 | 5 1/2 |
| Casing Wall Thickness, In. | 0.375 | 0.380 | 0.395 | 0.361 |
| Depth, MD | 40' | 933' | 5,460' | 13,906' |
| Weight | 78.6# | 54.5# | 40# | 20# |
| Grade | A-500 | J-55 | P-110 | P-110 |
| New or Used | New | New | New | New |
| Burst (psi) | 1378 | 2,700 | 7,900 | 12,640 |
| Cement Class | A | A / Type 1 | A / Type 1 | H |
| Cement Yield | 1.18 | 1.19 | 1.19 | 1.07/1.86 |
| Top of Cement (Planned) | Surface | Surface | Surface | 500' above top Producing Zone |
| Method | Displacement | Displacement | Displacement | Displacement |
| Est. Volume (cu ft) | 60 | 821 | 2,148 | 1,715 |
| Possible Additives | N/A | Calcium Chloride | Calcium Chloride | Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent |



Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 4,158'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

MAY 14 2016
 Office of Oil & Gas
 Reported

17-06774

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION**

Date of Notice Certification: 5-6-16

API No. 47- 017 - 06774
Operator's Well No. 514119
Well Pad Name: WEU8

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

| | | |
|---|--|-----------------------------|
| State: <u>WV</u> | UTM NAD 83 | Easting: <u>516399.39</u> |
| County: <u>Doddridge</u> | | Northing: <u>4346745.92</u> |
| District: <u>West Union</u> | Public Road Access: <u>RT50</u> | |
| Quadrangle: <u>West Union</u> | Generally used farm name: <u>Eleanor Meyer</u> | |
| Watershed: <u>Middle Run and Arnold Creek</u> | | |

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

| | |
|--|---|
| <p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p> | <p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> |
|--|---|

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Received
Office of Oil & Gas
MAY 09 2016

08/19/2016

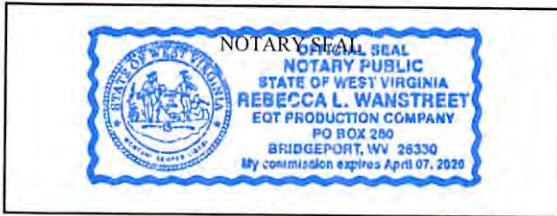
17-06774

Certification of Notice is hereby given:

THEREFORE, I *Victoria Roark*, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator: EQT Production Company
By: Victoria Roark
Its: Permitting Supervisor
Telephone: 304-848-0076

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041
Email: vroark@eqt.com



Subscribed and sworn before me this 4 day of May 2016.
Rebecca L. Wanstreet Notary Public
My Commission Expires 4-7-20

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received
Office of Oil & Gas
MAY 09 2016

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 5/10/16 Date Permit Application Filed: 5/10/16

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: See Attached
Address: _____

COAL OWNER OR LESSEE

Name: See Attached
Address: _____

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary.

Received
Office of Oil & Gas
MAY 09 2016

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad that was approved by the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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MAY 09 2016

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Received
Office of Oil & Gas
MAY 09 2016

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

08/19/2016

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Received
Office of Oil & Gas
MAY 09 2016

08/19/2016

WW-6A
(8-13)

API NO. 47-017 - 06774
OPERATOR WELL NO. 514119
Well Pad Name: WEU8

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0076
Email: vroark@eqt.com

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone 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 deprivacyofficer@wv.gov.

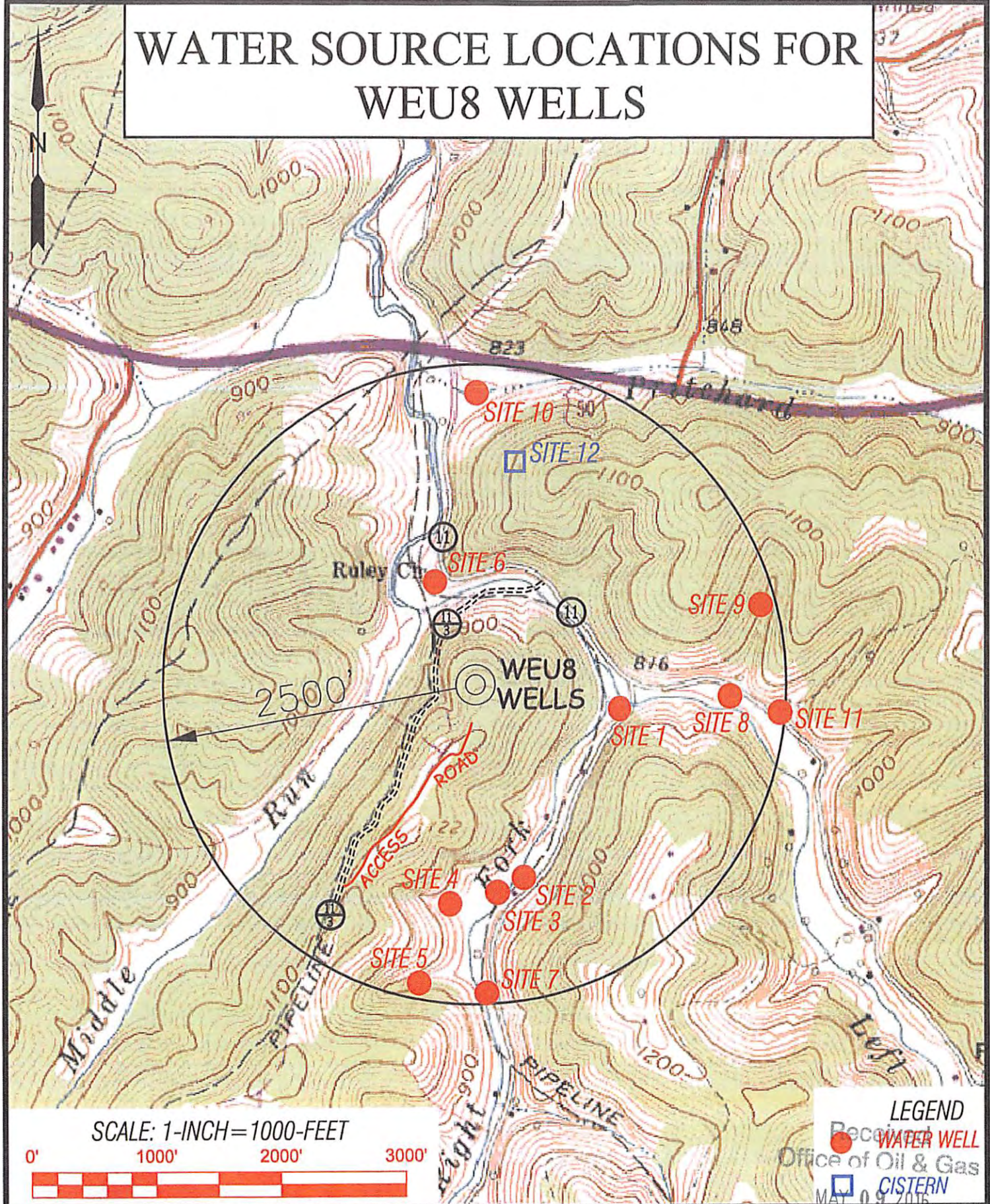


Subscribed and sworn before me this 4 day of May 2016.
Rebecca L. Wanstreet Notary Public
My Commission Expires 4-7-20

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Office of Oil & Gas
MAY 09 2016

08/19/2016

WATER SOURCE LOCATIONS FOR WEU8 WELLS



SCALE: 1-INCH=1000-FEET



LEGEND
 ● RECEIVED WATER WELL
 Office of Oil & Gas
 □ CISTERN
 MAY 09 2016



TOPO SECTION OF:
 WEST UNION, WV 7.5' QUAD.

OPERATOR:
 EQT PRODUCTION COMPANY
 115 PROFESSIONAL PLACE
 P.O. BOX 280
 BRIDGEPORT, WV 26330

08/19/2016

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| DRAWN BY K.D.W. | FILE NO. 7746 | DATE 03/15/16 | CADD FILE: 7746WEU8WS.dwg |
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| COUNTY DODDRIDGE | DISTRICT WEST UNION | TAX MAP-PARCEL NO. 14 - 06 |
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17-06774

Surface Owner (Access Roads and Other Disturbance)

Eleanor Meyer ✓
19 Heath Place
Garden City NY 11530

Mary Nesler ✓
857 Arnolds Creek Road
West Union WV 26456

Dennis and Sonya Hayes ✓
Rt. 1 Box 45
West Union WV 26456

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BRIDGEPORT WV

Eleanor Meyer
19 Heath Place
Garden City NY 11530
WEU8 Permit App and Planned Op.

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Mary Nesler
857 Arnolds Creek Road
West Union WV 26456
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Dennis and Sonya Hayes
Rt. 1 Box 45
West Union WV 26456
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17-06774

Surface Owner (Pits and Impoundments)

Eleanor Meyer ✓
19 Heath Place
Garden City NY 11530

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Eleanor Meyer ✓
 19 Heath Place
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Surface Owner:

Eleanor Meyer
19 Heath Place
Garden City NY 11530



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Office of Oil & Gas
MAY 09 2016

08/19/2016

17-06774

Coal Owners:

Lewis Maxwell Oil and Gas LLC
PO Box 2253
Clarksburg WV 26301

Mary Nesler
857 Arnolds Creek Road
West Union WV 26456

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Lewis Maxwell Oil and Gas LLC
PO Box 2253
Clarksburg WV 26301
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Mary Nesler
857 Arnolds Creek Road
West Union WV 26456
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MAY 09 2016

08/19/2016

Owners of Water Wells:

Mary Nesler ✓
 857 Arnolds Creek Road
 West Union WV 26456

Ruley Church ✓
 149 Pennsylvania St.
 West Union WV 26456

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 MAY 06 2016

Mary Nesler ✓
 857 Arnolds Creek Road
 West Union WV 26456
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Ruley Church ✓
 149 Pennsylvania St
 West Union WV 26456

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08/19/2016

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 03/09/2016 **Date Permit Application Filed:** 03/19/2016

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY
- CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: See Attached
Address: _____

Name: See Attached
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

| | | |
|---|--|-----------------------------|
| State: <u>WV</u> | UTM NAD 83 | Easting: <u>516399.39</u> |
| County: <u>Doddridge</u> | | Northing: <u>4346745.92</u> |
| District: <u>West Union</u> | Public Road Access: <u>RT50</u> | |
| Quadrangle: <u>West Union</u> | Generally used farm name: <u>Eleanor Meyer</u> | |
| Watershed: <u>Middle Run and Arnold Creek</u> | | |

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
Facsimile: 304-848-0041

Authorized Representative: Victoria Roark
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received
Office of Oil & Gas

MAY 09 2016

08/19/2016

17-06774

Surface Owner:

Eleanor Meyer
19 Heath Place
Garden City NY 11530



7015 3010 0001 6902 7954

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| Zip | | |

Eleanor Meyer
19 Heath Place
Garden City NY 11530
WEU8 Notice of Intent

MAY 09 2016

Instructions

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MAY 09 2016

08/19/2016

17-0674

Surface Owner (Access Roads and Other Disturbance)

Eleanor Meyer
19 Heath Place
Garden City NY 11530

Mary Nesler
857 Arnolds Creek Road
West Union WV 26456

Dennis and Sonya Hayes
Rt. 1 Box 45
West Union WV 26456

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Eleanor Meyer
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Mary Nesler
857 Arnolds Creek Road
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Rt. 1 Box 45
West Union WV 26456
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Surface Owner (Pits and Impoundments)

Eleanor Meyer ✓
19 Heath Place
Garden City NY 11530

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| Extra Services & Fees (check box, add fee as appropriate) | | |
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ | |
| <input type="checkbox"/> Return Receipt (electronic) | \$ | |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$ | |
| <input type="checkbox"/> Adult Signature Required | \$ | |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ | |
| Postage | \$ | |

To: Eleanor Meyer
19 Heath Place
Garden City NY 11530
WEU8 Notice of Intent

MAY 03 2016

3

Instructions

Received
Office of Oil & Gas
MAY 09 2016

08/19/2016

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 5/10/16 Date Permit Application Filed: 5/10/16

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL
RETURN RECEIPT REQUESTED
- HAND
DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the **SURFACE OWNER(s)**
(at the address listed in the records of the sheriff at the time of notice):

| | |
|---------------------------|---------------------------|
| Name: <u>See Attached</u> | Name: <u>See Attached</u> |
| Address: _____ | Address: _____ |
| _____ | _____ |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

| | | |
|---|--|-----------------------------|
| State: <u>WV</u> | UTM NAD 83 | Easting: <u>516399.39</u> |
| County: <u>Doddridge</u> | | Northing: <u>4346745.92</u> |
| District: <u>West Union</u> | Public Road Access: <u>RT50</u> | |
| Quadrangle: <u>West Union</u> | Generally used farm name: <u>Eleanor Meyer</u> | |
| Watershed: <u>Middle Run and Arnold Creek</u> | | |

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

| | |
|--|---|
| Well Operator: <u>EQT Production Company</u> | Address: <u>115 Professional Place PO Box 280</u> |
| Telephone: <u>304-848-0076</u> | <u>Bridgeport WV 26330</u> |
| Email: <u>wroark@eqt.com</u> | Facsimile: <u>304-848-0041</u> |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received
Office of Oil & Gas
MAY 09 2016

17-00774

Surface Owner:

Eleanor Meyer
19 Heath Place
Garden City NY 11530

7016 0340 0000 8668 4915

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

| | | |
|--|----|--|
| Certified Mail Fee | \$ | |
| Extra Services & Fees (check box, add fee as appropriate) | | |
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ | |
| <input type="checkbox"/> Return Receipt (electronic) | \$ | |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$ | |
| <input type="checkbox"/> Adult Signature Required | \$ | |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ | |
| Postage | \$ | |
| Total Po | \$ | |
| Sent To | | |
| Street or | | |
| City, State | | |

Postmark Here
 BRIDGEPORT NY
 MAY 06 2016

Eleanor Meyer
 19 Heath Place
 Garden City NY 11530
 WEU8 Permit App and Planned Op.

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Received
Office of Oil & Gas
MAY 09 2016

08/19/2016

17-06774

Surface Owner (Access Roads and Other Disturbance)

Eleanor Meyer
19 Heath Place
Garden City NY 11530

Mary Nesler
857 Arnolds Creek Road
West Union WV 26456

Dennis and Sonya Hayes
Rt. 1 Box 45
West Union WV 26456

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

7016 0340 0000 8668 4915

| | |
|--|----|
| Certified Mail Fee | \$ |
| Extra Services & Fees (check box, add fee as appropriate) | |
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ |
| <input type="checkbox"/> Return Receipt (electronic) | \$ |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$ |
| <input type="checkbox"/> Adult Signature Required | \$ |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ |

| | |
|-------------|----|
| Postage | \$ |
| Total Po | \$ |
| Sent To | |
| Street and | |
| City, State | |

Eleanor Meyer
19 Heath Place
Garden City NY 11530
WEU8 Permit App and Planned Op.



PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

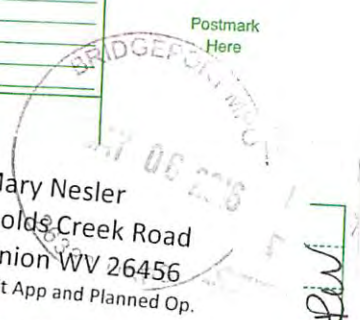
OFFICIAL USE

7016 0340 0000 8668 4939

| | |
|--|----|
| Certified Mail Fee | \$ |
| Extra Services & Fees (check box, add fee as appropriate) | |
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ |
| <input type="checkbox"/> Return Receipt (electronic) | \$ |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$ |
| <input type="checkbox"/> Adult Signature Required | \$ |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ |

| | |
|--------------|----|
| Postage | \$ |
| Total Postag | \$ |
| Sent To | |
| Street and # | |
| City, State, | |

Mary Nesler
857 Arnolds Creek Road
West Union WV 26456
WEU8 Permit App and Planned Op.



PS Form 3800, April 2015 PSN 7530-02-000-9047

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

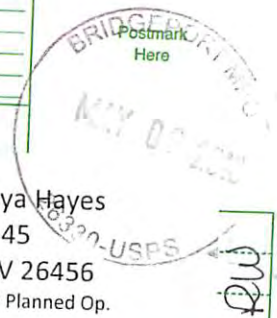
OFFICIAL USE

7016 0340 0000 8668 4946

| | |
|--|----|
| Certified Mail Fee | \$ |
| Extra Services & Fees (check box, add fee as appropriate) | |
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ |
| <input type="checkbox"/> Return Receipt (electronic) | \$ |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$ |
| <input type="checkbox"/> Adult Signature Required | \$ |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ |

| | |
|-------------|----|
| Postage | \$ |
| Total Post | \$ |
| Sent To | |
| Street and | |
| City, State | |

Dennis and Sonya Hayes
Rt. 1 Box 45
West Union WV 26456
WEU8 Permit App and Planned Op.



PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Received
Office of Oil & Gas

MAY 09 2016

08/19/2016

17-06774

Surface Owner (Pits and Impoundments)

Eleanor Meyer
19 Heath Place
Garden City NY 11530

7016 0340 0000 8668 4915

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

| | |
|--|----|
| Certified Mail Fee | \$ |
| Extra Services & Fees (check box, add fee as appropriate) | |
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ |
| <input type="checkbox"/> Return Receipt (electronic) | \$ |
| <input type="checkbox"/> Certified Mail Restricted Delivery | \$ |
| <input type="checkbox"/> Adult Signature Required | \$ |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ |
| Postage | \$ |
| Total Po | \$ |
| Sent To | |
| Street or | |
| City, State | |

Postmark Here
 BRIDGE PLAZA
 NY 06 2316
 RW

Eleanor Meyer
 19 Heath Place
 Garden City NY 11530
 WEU8 Permit App and Planned Op.

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Received
Office of Oil & Gas
MAY 09 2016

08/19/2016

17-06774



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

February 4, 2016

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the WEU8 Well Site, Doddridge County

WEU8H7 #514119
WEU8H8 #514120
WEU8H9 #514121
WEU8H10 #514122

Dear Mr. Martin,

This well site will be accessed from Permit # 04-12-1110 issued to by EQT Production Company for access to the State Road for a well pad located off of County Rt. 11/3 in Doddridge County.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Handwritten signature of Gary K. Clayton in blue ink.

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-4
File

Received
Office of Oil & Gas

MAY 09 2016

Anticipated Frac Additives
Chemical Names and CAS numbers

| <u>Material</u> | <u>Ingredient</u> | <u>CAS Number</u> |
|-----------------------|--|-------------------|
| Water | | |
| Sand | Hydrotreated light petroleum distillate | 14808-60-7 |
| Friction Reducer | Tributyl tetradecyl phosphonium chloride | 64742-47-8 |
| Biocide | Ammonium chloride | 81741-28-8 |
| Scale Inhibitor | Hydrochloric Acid | 12125-02-9 |
| 15% Hydrochloric Acid | Propargyl Alcohol | 7647-01-0 |
| Corrosion Inhibitor | Methanol | 107-19-7 |
| Corrosion Inhibitor | Guar Gum | 67-56-1 |
| Gelling Agent | Sodium Persulfate | 9000-30-0 |
| Oxidizing Breaker | Potassium Carbonate | 7775-27-1 |
| Buffering Agent | | 584-08-7 |

Received
Office of Oil & Gas
MAY 09 2016

08/19/2016

EQT WEU 8 SITE PLAN EQT PRODUCTION COMPANY

EXISTING WELL NO. H1-WV 513764 (API# 47-017-06195), H2-WV 513765 (API# 47-017-06196), H3-WV 513766 (API# 47-017-06197),
H4-WV 513767 (API# 47-017-06198), H5-WV 513768 (API# 47-017-06199), H6-WV 513769 (API# 47-017-06200)

PROPOSED WELL NO. H7-WV 516808, H8-WV 516809, H9-WV 516810, H10-WV 516811, H11-WV 516812, H12-WV 516813

SITUATE ON THE WATERS OF TRIBUTARIES OF ARNOLD CREEK
IN WEST UNION DISTRICT, DODDRIDGE COUNTY, WV

PROJECT INFORMATION

PROJECT NAME: EQT WEU 8
TAX PARCEL:
WEST UNION DISTRICT, DODDRIDGE COUNTY, WV
MAP 14 PARCEL 6, 20

SURFACE OWNER:

CHARLES E. & MARY L. NEBLER
MAP 14, PARCEL 20
WEST UNION DISTRICT, DODDRIDGE COUNTY, WV
TOTAL PROPERTY AREA: 59.15 +/- ACRES
TOTAL DISTURBANCE AREA: 2.9 +/- ACRES
ELEANOR MEYER
MAP 14, PARCEL 06
WEST UNION DISTRICT, DODDRIDGE COUNTY, WV
TOTAL PROPERTY AREA: 340.75 +/- ACRES
TOTAL DISTURBANCE AREA: 12.2 +/- ACRES

OIL AND GAS ROYALTY OWNER:
SUZAN J. CHILDERS, ET AL
WEST UNION DISTRICT, DODDRIDGE COUNTY, WV
TOTAL PROPERTY AREA: 990 +/- ACRES

SITE LOCATION:
THE EQT WEU 8 ACCESS ROAD ENTRANCE IS LOCATED 4.098' +/-
SOUTH OF THE JUNCTION OF US RT. 50 AND CO. RT. 11.
THE WELL PAD IS LOCATED 0.6 MILES +/- SOUTH OF THE
JUNCTION OF US RT. 50 AND CO. RT. 11.

LOCATION COORDINATES

EQT WEU 8 CONSTRUCTION ENTRANCE
LATITUDE: 39.269117 LONGITUDE: 80.814236

EQT WEU 8 WELL PAD CENTER
LATITUDE: 39.270036 LONGITUDE: 80.809869

EQT WEU 8 FLOWBACK PAD CENTER
LATITUDE: 39.269258 LONGITUDE: 80.809994

EQT WEU 8 COMPLETION PAD CENTER
LATITUDE: 39.273419 LONGITUDE: 80.803850

GENERAL DESCRIPTION

THE ACCESS ROAD, COMPLETION TANK PAD AND FLOWBACK TANK
PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF
INDIVIDUAL MARCELLUS SHALE GAS WELLS.

SITE DISTURBANCE COMPUTATIONS

WELL PAD AREA = 3.1 +/- ACRES
FLOWBACK PAD AREA = 2.3 +/- ACRES
COMPLETION PAD AREA = 2.1 +/- ACRES
ACCESS ROAD AREA = 4.8 +/- ACRES
STOCKPILE AREA = 2.8 +/- ACRES
TOTAL SITE DISTURBANCE AREA = 15.1 +/- ACRES

ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT (FORM
MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION
ACTIVITIES.

MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATING OF
UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET # 20125480.
IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE
PROJECT.

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON APRIL 6, 2011, JANUARY 24-25, 2012, MARCH
21, 2012, MAY 17, 2012, AUGUST 7, 2012 AND SEPTEMBER 5, 2012 BY POTESTA &
ASSOCIATES, INC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST
LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS
(USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
(WVDEP). THE OCTOBER 1, 2011 REPORT PROJECT #0101-11-0147-401 FOR THE EQT WEU 8
SITE WAS PREPARED BY POTESTA & ASSOCIATES, INC. SUMMARIZES THE RESULTS OF THE
FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL
DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE
REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE
APPROPRIATE AGENCIES BE CONSULTED IN AN EFFORT TO OBTAIN WRITTEN
CONFIRMATION OF THE DELINEATION DESCRIBED BY THIS REPORT FOR ENGAGING
CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN
THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES
PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS
AND STREAM CROSSINGS.

GEOTECHNICAL NOTES

A SUBSURFACE GEOTECHNICAL INVESTIGATION HAS NOT BEEN PERFORMED AS OF
02-29-2015. THE ENGINEER AND SURVEYOR ARE NOT RESPONSIBLE FOR UNFORESEEN
SUBSURFACE IRREGULARITIES CAUSING ADDITIONAL WORK OR ADDITIONAL
CONSTRUCTION MEASURES REQUIRED BEYOND THOSE STANDARD PRACTICES SHOWN ON
THIS PLAN AS A RESULT OF ANY OTHER GEOTECHNICAL COMPLICATIONS ENCOUNTERED
DURING CONSTRUCTION.



**APPROVED
WVDEP OOG**
WVJ 6/22/2016

RESTRICTIONS NOTES

1. THERE ARE INTERMITTENT/PERENNIAL STREAMS WITHIN 100 FEET OF THE PROJECT LOD.
THERE ARE NO WETLANDS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LOD.
2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE PAD AND LOD.
3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE PAD AND LOD.
4. THERE ARE NO KNOWN EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELLS BEING DRILLED. STANTEC AND SMITH LAND SURVEYING ARE NOT RESPONSIBLE FOR ANY EXISTING WATER WELL OR DEVELOPED SPRING DISCOVERED DURING CONSTRUCTION.
5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE PAD.
6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE PAD.

MISS UTILITY OF West Virginia
1-800-245-4545
West Virginia State Law
(Section XIV, Chapter 24-C)
Requires that you call two
business days before you dig in
the state of West Virginia.
IT'S THE LAW.

GRID NORTH AND ELEVATIONS
ESTABLISHED BY SURVEY
GRADE GPS

| LIST OF DRAWINGS | |
|------------------|----------------------------------|
| SHEET NO. | DESCRIPTION |
| 1 | COVER SHEET |
| 2 | GENERAL NOTES |
| 3 | OVERALL PLAN SHEET INDEX |
| 4-8 | SITE PLAN |
| 9-11 | ACCESS ROAD PROFILES |
| 12-22 | ACCESS ROAD CROSS SECTIONS |
| 23 | PAD PROFILES |
| 24-29 | PAD AND STOCKPILE CROSS SECTIONS |
| 30-32 | RECLAMATION PLAN |
| 33-35 | CONSTRUCTION DETAILS |
| 36 | CONSTRUCTION QUANTITIES |

| LEGEND | |
|---------------------------|--|
| EX. INDEX CONTOUR | PROP. INDEX CONTOUR |
| EX. INTERMEDIATE CONTOUR | PROP. INTERMEDIATE CONTOUR |
| EX. BOUNDARY LINE | PROP. CUT LINE |
| EX. EDGE OF ROAD PAVEMENT | PROP. FILL LINE |
| EX. GUARDRAIL | PROP. LIMITS OF DISTURBANCE |
| EX. FENCELINE | ENVIRONMENTAL ASSESSMENT AREA OF DELINEATION |
| EX. GATE | PROP. WELL HEAD |
| EX. OVER-HEAD UTILITY | PROP. CELLAR |
| EX. OVER-HEAD UTILITY RW | PROP. CONTAINMENT BERM |
| EX. UTILITY POLE | PROP. ROAD CENTERLINE |
| EX. GUY WIRE | PROP. V-DITCH WITH CHECK DAMS |
| EX. TELEPHONE LINE | PROP. CULVERT |
| EX. GASLINE | PROP. RIP-RAP INLET PROTECTION |
| EX. GASLINE RW | PROP. COMPOST FILTERS/COCK |
| EX. WATERLINE | PROP. TREELINE |
| EX. WATERLINE RW | PROP. STONE CONSTRUCTION ENTRANCE |
| EX. WATER WELL | X-SECTION GRID INDEX |
| EX. GAS WELL | X-SECTION GRID INTERMEDIATE |
| EX. CELLAR | X-SECTION PROPOSED GRADE |
| EX. TREELINE | X-SECTION EXISTING GRADE |
| EX. REFERENCE TREE | |
| EX. DELINEATED STREAM | |
| EX. DELINEATED WETLAND | |
| EX. BUILDING | |

WEST UNION QUADRANGLE
WEST VIRGINIA
7.5 MINUTE SERIES
2000' 0' 2000'

OPERATOR

EQT PRODUCTION COMPANY
OPERATOR ID: 306686
P.O. BOX 280
BRIDGEPORT, WV 25630
PHONE: (304) 348-3870

ENGINEER

STANTEC CONSULTING, INC.
111 ELKINS STREET
FARMINGTON, WV 26554
PHONE: (304) 367-9401

SURVEYOR

SMITH LAND SURVEYING, INC.
PO BOX 150
226 WEST MAIN STREET
SLENDALE, WV 26351
PHONE: (804) 462-5634

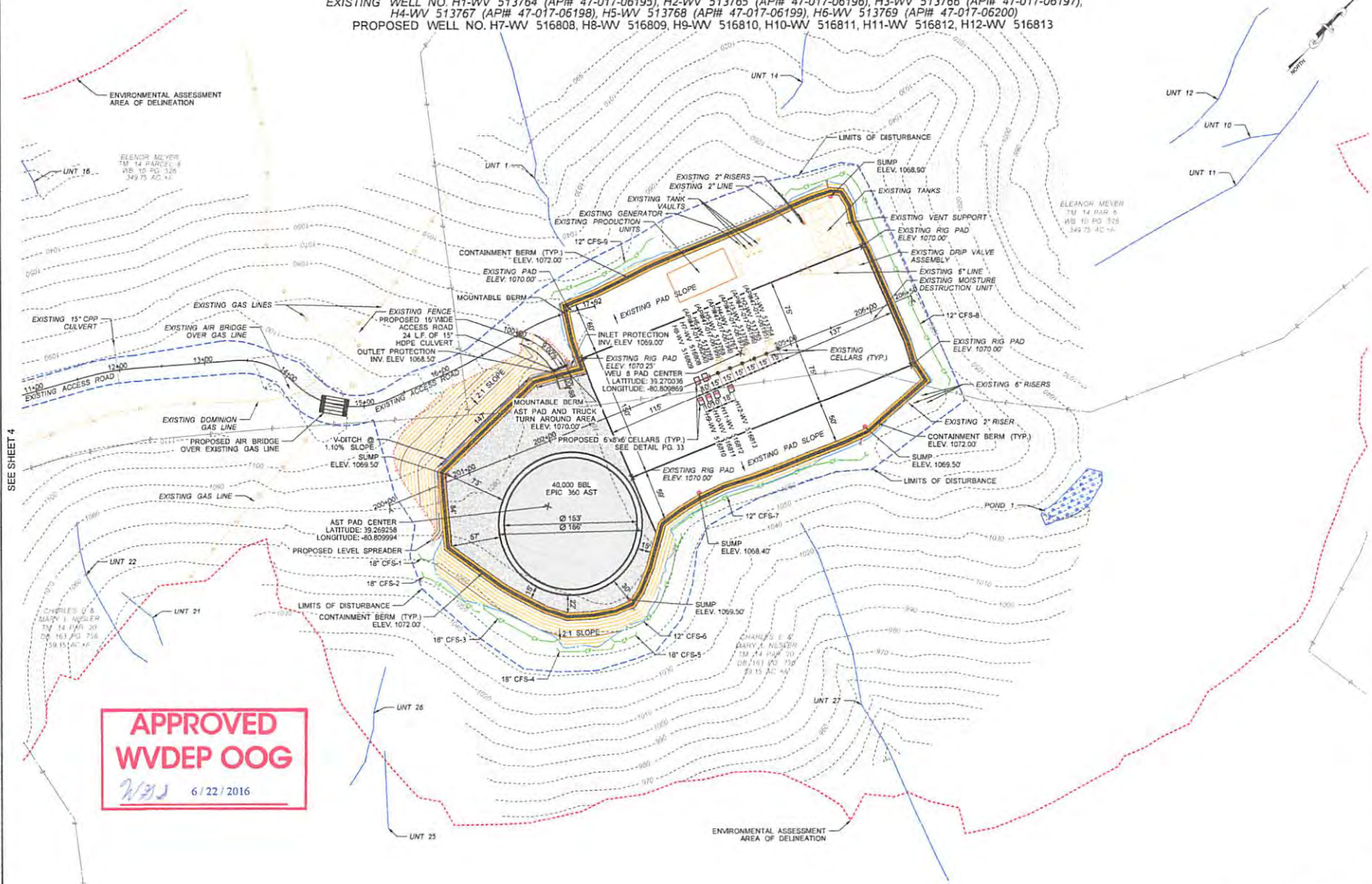


TITLE SHEET
EQT WEU 8
WEST UNION DISTRICT
DODDRIDGE COUNTY, WV

DATE: 05-03-2015
SCALE: AS SHOWN
DESIGNED: KDS
CHECKED: CGH
REVIEWED: RLG
FILE NO.: 62-5746
SHEET 1 OF 36
REV:

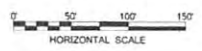
EQT WEU 8 SITE PLAN

EXISTING WELL NO. H1-WV 513764 (API# 47-017-06195), H2-WV 513765 (API# 47-017-06196), H3-WV 513766 (API# 47-017-06197),
 H4-WV 513767 (API# 47-017-06198), H5-WV 513768 (API# 47-017-06199), H6-WV 513769 (API# 47-017-06200)
 PROPOSED WELL NO. H7-WV 516808, H8-WV 516809, H9-WV 516810, H10-WV 516811, H11-WV 516812, H12-WV 516813



**APPROVED
 WVDEP OOG**

WVDEP 6/22/2016



THIS DOCUMENT WAS
 PREPARED BY
 STANTEC
 FOR
 EQT PRODUCER COMPANY

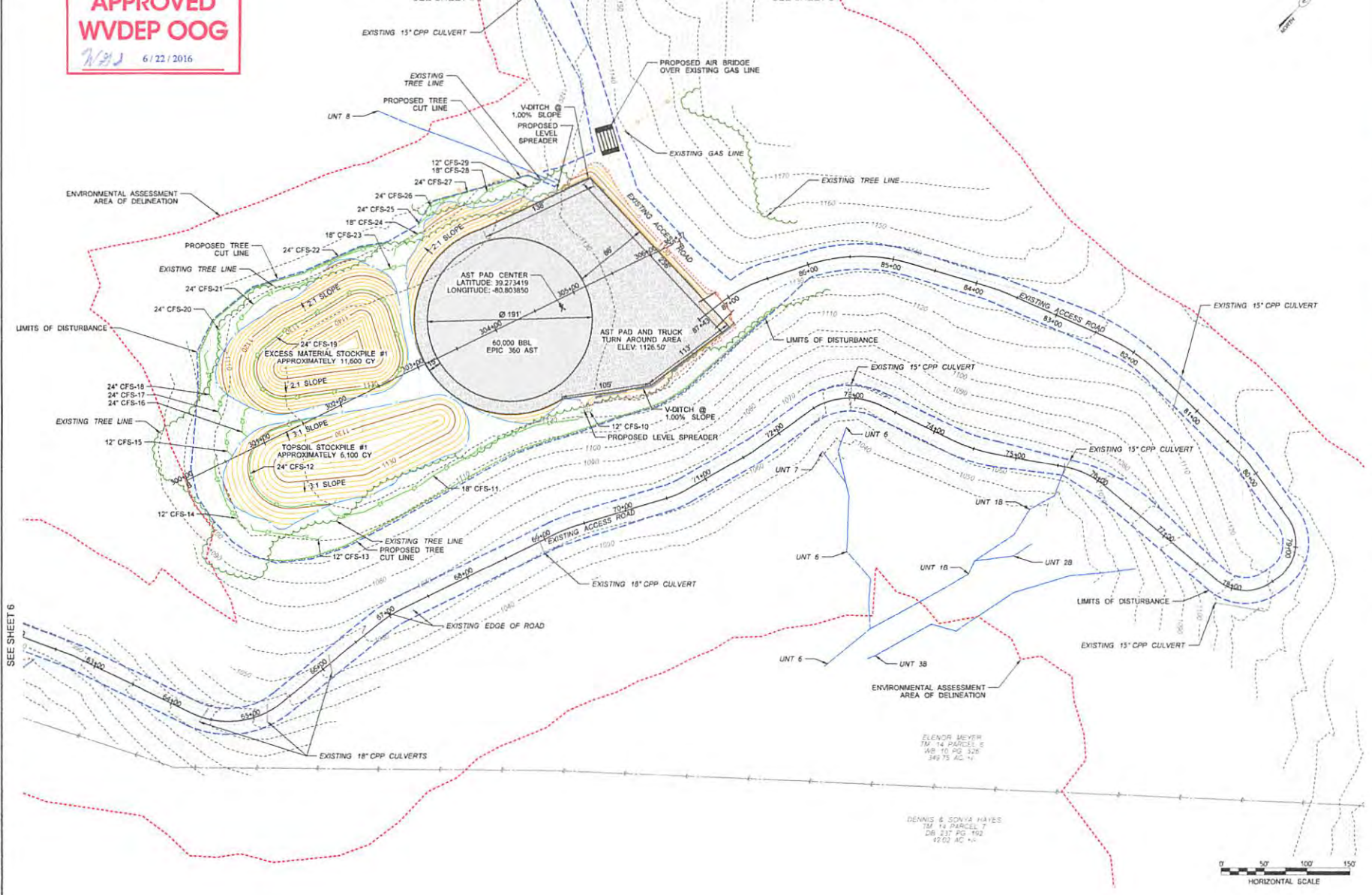
SITE PLAN
 EQT WEU 8
 WEST UNION DISTRICT
 DODDRIEGE COUNTY, WV

DATE: 05-03-2016
 SCALE: AS SHOWN
 DESIGNED: KDB
 CHECKED: CSH
 REVIEWED: RLJ
 FILE NO.: SLS-7746
 SHEET 5 OF 36
 REV:

EQT WEU 8 SITE PLAN

EXISTING WELL NO. H1-WV 513764 (API# 47-017-06195), H2-WV 513765 (API# 47-017-06196), H3-WV 513766 (API# 47-017-06197),
 H4-WV 513767 (API# 47-017-06198), H5-WV 513768 (API# 47-017-06199), H6-WV 513769 (API# 47-017-06200)
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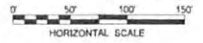
APPROVED WVDEP OOG
 6/22/2016



THIS DOCUMENT HAS BEEN PREPARED BY STANTEC FOR EQT PRODUCTION COMPANY

SITE PLAN
 EQT WEU 8
 WEST UNION DISTRICT
 DODDRIEGE COUNTY, WV

DATE: 05-03-2016
 SCALE: AS SHOWN
 DESIGNED: KDS
 CHECKED: CSH
 REVIEWED: RLS
 FILE NO.: SLS-7146
 SHEET 7 OF 36
 REV:



DRAWN BY: J. W. HARRIS
 CHECKED BY: J. W. HARRIS
 DATE: 05-03-2016
 PROJECT: EQT WEU 8
 SHEET: 7 OF 36