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**west virginia** department of environmental protection

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

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

October 21, 2015

**WELL WORK PERMIT**

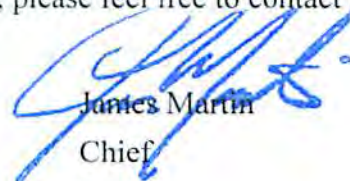
**Horizontal 6A Well**

This permit, API Well Number: 47-4902407, issued to XTO ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: ROCKWELL 1H  
Farm Name: ROBINSON, ALLEN H.  
**API Well Number: 47-4902407**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 10/21/2015

**Promoting a healthy environment.**

**10/23/2015**



04902407

WW-6B  
(04/15)

API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. Rockwell 1H  
Well Pad Name: Rockwell Pad

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

4 606

1) Well Operator: XTO Energy Inc. 494487940 Marion Manning Shinnston  
Operator ID County District Quadrangle

2) Operator's Well Number: Rockwell 1H Well Pad Name: Rockwell Pad

3) Farm Name/Surface Owner: Allen Robinson Public Road Access: Harrison County Rt. 3 (Robinson Wyatt Run)

4) Elevation, current ground: 1,258' Elevation, proposed post-construction: 1,245'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation: Marcellus, Depth 7,500', Anticipated Thickness: 150', Associated pressure: 4,650 psi

8) Proposed Total Vertical Depth: 7,500'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13,660'

11) Proposed Horizontal Leg Length: 5,743'

12) Approximate Fresh Water Strata Depths: 145', 185', 390'

13) Method to Determine Fresh Water Depths: Offsetting Reports

14) Approximate Saltwater Depths: None Listed

15) Approximate Coal Seam Depths: 455'

16) Approximate Depth to Possible Void (coal mine, karst, other): 455'

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: \_\_\_\_\_

*WRH*  
*9-28-15*

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WW-6B  
(04/15)

04902407

API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. Rockwell 1H  
Well Pad Name: Rockwell Pad

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    | 24        | New         | PE&B  | 95                     | 40                         | 40                           | 59                            |
| Fresh Water  | 13.375    | New         | H40   | 48                     | 500                        | 500                          | 452                           |
| Coal         |           |             |       |                        |                            |                              |                               |
| Intermediate | 9.625     | New         | J55   | 36                     | 3,100                      | 3,100                        | 1,262                         |
| Production   | 5.5       | New         | J55   | 20                     | 13,660                     | 13,660                       | Lead 2,281/Tail 6,000'        |
| Tubing       |           |             |       |                        |                            |                              |                               |
| Liners       |           |             |       |                        |                            |                              |                               |

*WRH  
8-28-15*

| 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    | 24        | 28                     | 0.375               | 940                  | 40                                       | Standard                | 1.19                     |
| Fresh Water  | 13.375    | 17.5                   | 0.33                | 1730                 | 410                                      | Standard                | 1.19                     |
| Coal         |           |                        |                     |                      |  |                         |                          |
| Intermediate | 9.625     | 12.25                  | 0.352               | 3520                 | 2520                                     | Standard                | 1.19                     |
| Production   | 5.5       | 8.5                    | 0.361               | 12640                | 6090                                     | 50-50 POZ Class II Tail | 1.13 / 1.18              |
| Tubing       |           |                        |                     |                      |  |                         |                          |
| Liners       |           |                        |                     |                      |  |                         |                          |

PACKERS

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

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WW-6B  
(10/14)

API NO. 47- 049 02407  
OPERATOR WELL NO. Rockwell 1H  
Well Pad Name: Rockwell Pad

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

Drill a new horizontal Marcellus well, utilizing synthetic mud and a closed loop system for both drilling and completion. Install new casing with centralizers.

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

1. Acid Stage - Typically 1500 gallons of 7.5% hydrochloric acid to clear the perforation path in the wellbore. 1500 gals 15% HCl acid. 2. Sand / Proppant Stages - Several stages of pumping water combined with sand at a targeted 80 bpm rate. The highest pressure and rate anticipated is 9,500 psig and 100 bpm. The sand size may vary from 100 mesh to 30/50 mesh size. 12,500 bbls slick water with 220,000 lbs 40/70, 270,000 lbs 100 mesh sands and 2,200 gals FR 133, 1,500 gals Bioplex 301 and 1,500 gals Bioplex 301 and 1,190 gals antiscala 30. 3. Flush Stage - Slickwater water stage to fill the wellbore to flush the sand from the wellbore. Depending on the water quality, a biocide, friction reducer, iron control, and scale inhibitor may be injected during the completion as well.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 36.035 +/-

22) Area to be disturbed for well pad only, less access road (acres): 7.1 +/-

23) Describe centralizer placement for each casing string:

Conductor: None  
Fresh Water: Every 3rd joint from shoe to surface  
Mine: Every 3rd joint from shoe to surface (if applicable)  
Intermediate: Every 3rd joint from shoe to surface  
Production: Every 3rd joint from shoe to 1,000' above the kick-off point

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

Conductor: None  
Fresh Water: Calcium Chloride and super flake  
Mine: Calcium Chloride and super flake (if applicable)  
Intermediate: Calcium Chloride and super flake  
Production: Calcium Chloride, Bentonite, super flake, Air-Out, CR-1, FL-300, SEC10

25) Proposed borehole conditioning procedures:

Conductor: Hole is auger drilled: No conditioning required.  
Fresh Water: Condition hole with air at TD until visibly clean, run casing, circulate and clear 1.5x pipe volume with fresh water before cementing.  
Mine: Condition hole with air at TD until visibly clean, run casing, circulate and clear 1.5x pipe volume with water before cementing (if applicable).  
Intermediate: Condition hole with air at TD until visibly clean, run casing, circulate and clear 1.5x pipe volume with water before cementing.  
Production: Circulate hole with synthetic based drilling fluid at TD (1 bottoms up and until returns are minimal at the base of the curve of the wellbore). TOOHS and circulate minimum of 1 bottoms up and until returns are minimal at the base of the curve of the wellbore. Run casing, circulate and ensure good returns before cementing.

\*Note: Attach additional sheets as needed.

OCT 21 2015

04902407

WW-6B  
(10/14)

API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. Rockwell 1H  
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Mine: Condition hole with air at TD until visibly clean, run casing, circulate and clear 1.5x pipe volume with water before cementing (if applicable).  
Intermediate: Condition hole with air at TD until visibly clean, run casing, circulate and clear 1.5x pipe volume with water before cementing.  
Production: Circulate hole with synthetic based drilling fluid at TD (1 bottoms up for each 2,000' of lateral drilled). TOOH and circulate minimum of 1 bottoms up and until returns are minimal at the base of the curve. Run casing, circulate and ensure good returns before cementing.

WV Department of  
Environmental Protection

\*Note: Attach additional sheets as needed.

04902407

ROCKWELL A 1H  
Marion County, West Virginia



40 24" 95# LS PEB Conductor

500 13 3/8 48# H40 BTC

0 N/A

3,100 9 5/8 36# J55 LTC

KOP: 7000

5 1/2 20# CDC

13660 MD

7500 TVD

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**Rockwell 1H – Mine Void Encounter Plan**

Per communications with the WV Geology and Economic Survey there is a possible mine void in the Pittsburgh Coal seam adjacent to the Rockwell Pad in Marion County, WV. In preparation for the possibility of drilling through the mine void, we will nipple up an annular preventer to be able to handle any flow should the void actually be encountered. We would expect it to come in around 455' TVD from GL. We plan to set 13 3/8" casing as a surface/coal protective string ~50' below the base of this void.

A cement basket will be run as close as possible to the top of the void.

A cement balance job will be performed to cement the shoe and the annulus below the mine if circulation cannot be established. A grout cement job will be performed on the annulus to cement above the mine.

Once cemented in place, we will continue on with our normal casing design, which would be to set 9 5/8" intermediate casing at ~3100'.

Morgan O'Brien  
Drilling Engineer  
XTO Appalachia  
Cell: 724-272-8097  
Morgan\_OBrien@xtoenergy.com

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Environmental Protection

10/23/2015

04902407

WW-9  
(2/15)

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. Rockwell 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name XTO Energy Inc. OP Code 494487940

Watershed (HUC 10) Bingamon Creek Quadrangle Shinnston 7.5'

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.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 4707302523, 4705500319, 4708505151, 4706509721, 3416720577, 3412124037, 3405320968 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: Depending on brand, system would entail 2 centrifuges & another cutting drying method: grinder, drying shakers or vert-g mud.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Airwater to 7100', then switch to synthetic

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

Additives to be used in drilling medium? See additional page

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) NA

-Landfill or offsite name/permit number? Meadowbrook Landfill - #SWF 1032

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 [Signature]

Company Official (Typed Name) Gary Beall

Company Official Title Production Superintendent

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Office of Oil and Gas

Subscribed and sworn before me this 27<sup>th</sup> day of August, 20 15

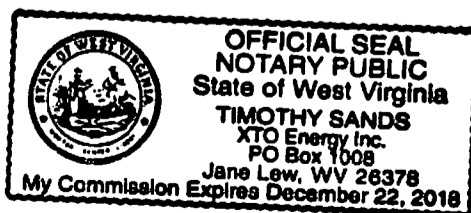
SEP 03 2015

[Signature] Notary Public

My commission expires 12/22/18

Office of Environmental Protection

10/23/2015





04902407

Form WW-9

Operator's Well No. Rockwell 1H

XTO Energy Inc.

Proposed Revegetation Treatment: Acres Disturbed 36.035 +/- Prevegetation pH \_\_\_\_\_

Lime 2-4 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Per plans

| Temporary        |          | Permanent |          |
|------------------|----------|-----------|----------|
| Seed Type        | lbs/acre | Seed Type | lbs/acre |
| <u>Per plans</u> |          |           |          |
|                  |          |           |          |
|                  |          |           |          |

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: *Bill H. ...*

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

Title: Environmental Inspector Date: 8-28-15

Field Reviewed? (  ) Yes (  ) No

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10/23/2015  
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Environmental Protection

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XTO Energy Inc.  
Well Site Safety Plan

Rockwell 1H  
Rockwell Pad

39.455571  
-80.363151

790 Hawks Nest Rd.  
Mannington, WV 26582

WRH  
8-28-15

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10/23/2015



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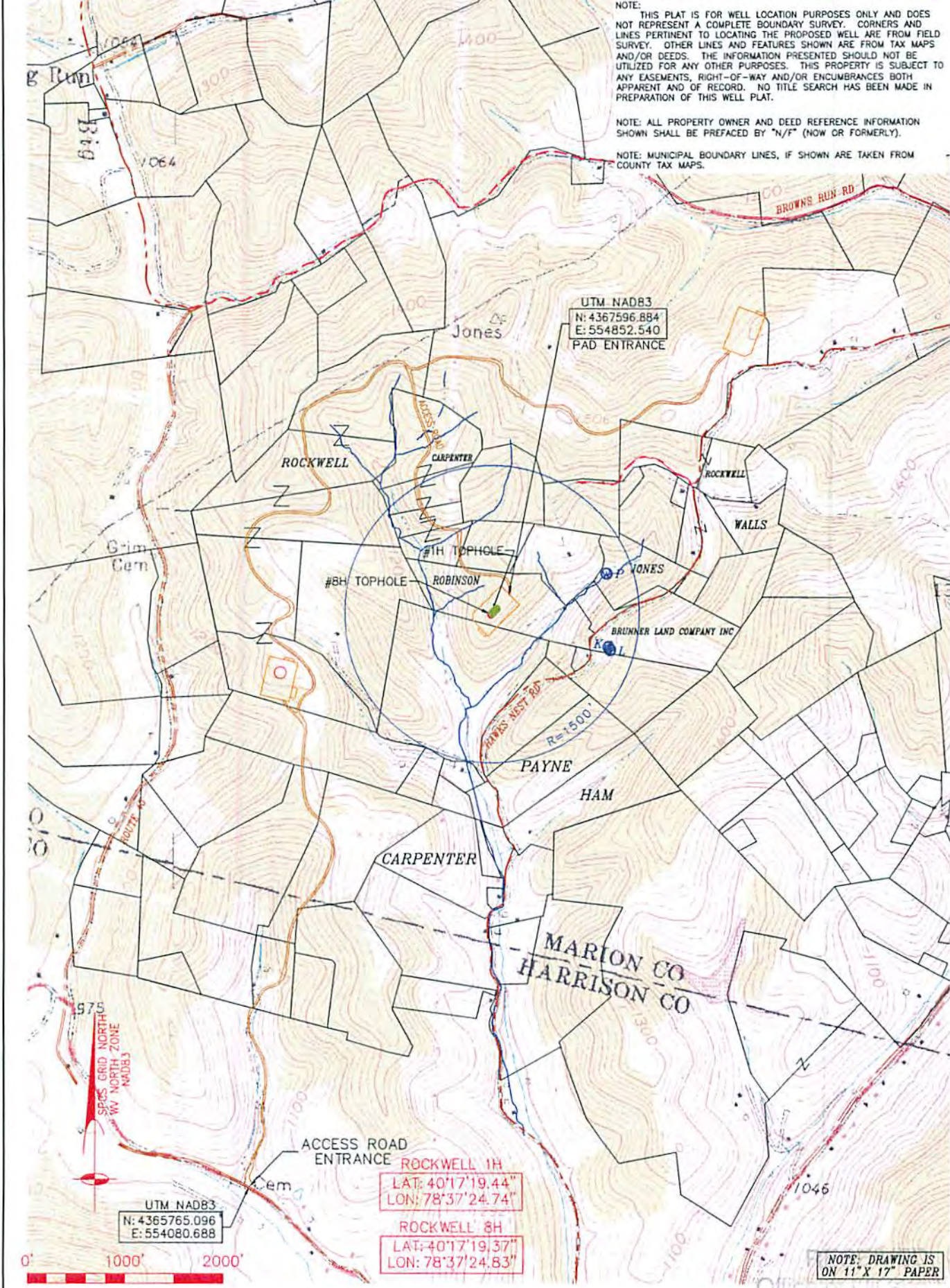
| LEGEND |                           |
|--------|---------------------------|
|        | WATER SUPPLY - WATER WELL |
|        | WATER SUPPLY - SPRING     |

# MANNINGTON

NOTE:  
THIS PLAT IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. CORNERS AND LINES PERTINENT TO LOCATING THE PROPOSED WELL ARE FROM FIELD SURVEY. OTHER LINES AND FEATURES SHOWN ARE FROM TAX MAPS AND/OR DEEDS. THE INFORMATION PRESENTED SHOULD NOT BE UTILIZED FOR ANY OTHER PURPOSES. THIS PROPERTY IS SUBJECT TO ANY EASEMENTS, RIGHT-OF-WAY AND/OR ENCUMBRANCES BOTH APPARENT AND OF RECORD. NO TITLE SEARCH HAS BEEN MADE IN PREPARATION OF THIS WELL PLAT.

NOTE: ALL PROPERTY OWNER AND DEED REFERENCE INFORMATION SHOWN SHALL BE PREFACED BY "N/F" (NOW OR FORMERLY).

NOTE: MUNICIPAL BOUNDARY LINES, IF SHOWN ARE TAKEN FROM COUNTY TAX MAPS.



WRH  
8-28-15

| REVISED | COMMENTS |
|---------|----------|
|         |          |
|         |          |
|         |          |
|         |          |
|         |          |
|         |          |
|         |          |
|         |          |
|         |          |
|         |          |

**TRI - COUNTY ENGINEERING, LLC**  
319 PAINTERSVILLE ROAD  
HUNKER, PA 15639  
VOICE: 724 / 635-0210 FAX: 724 / 635-0676

**ROCKWELL UNIT WATER-OVERALL**  
10/23/2015  
ENTO ENERGY INC.

**Innovative Engineering Solutions Since 1979**

|                   |               |   |
|-------------------|---------------|---|
| DRAWN BY: BMK     | DATE: 8/12/15 | MANNINGTON TOWNSHIP<br>MARION COUNTY, WEST VIRGINIA |
| SCALE: 1" = 1000' | SHEET: 1      | FILE NO. XT00G57-09                                 |











Latitude: 39°30'00"

**NOTES ON SURVEY:**

1. NO DWELLINGS WITHIN 625' WERE FOUND.
2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
3. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '83.
4. WELL ELEVATION ESTABLISHED BY DIRECT GPS NAVD88.
5. BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
6. SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY, WV IN JUNE OF 2015. LEASE OWNERS AND BOUNDARIES PROVIDED BY XTO ENERGY, INC.
7. WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP.

# ROCKWELL

## 1H

State Plane Coord.  
West Virginia North  
NAD27

Top Hole Loc  
(N) 349199.766  
(E) 1756245.799

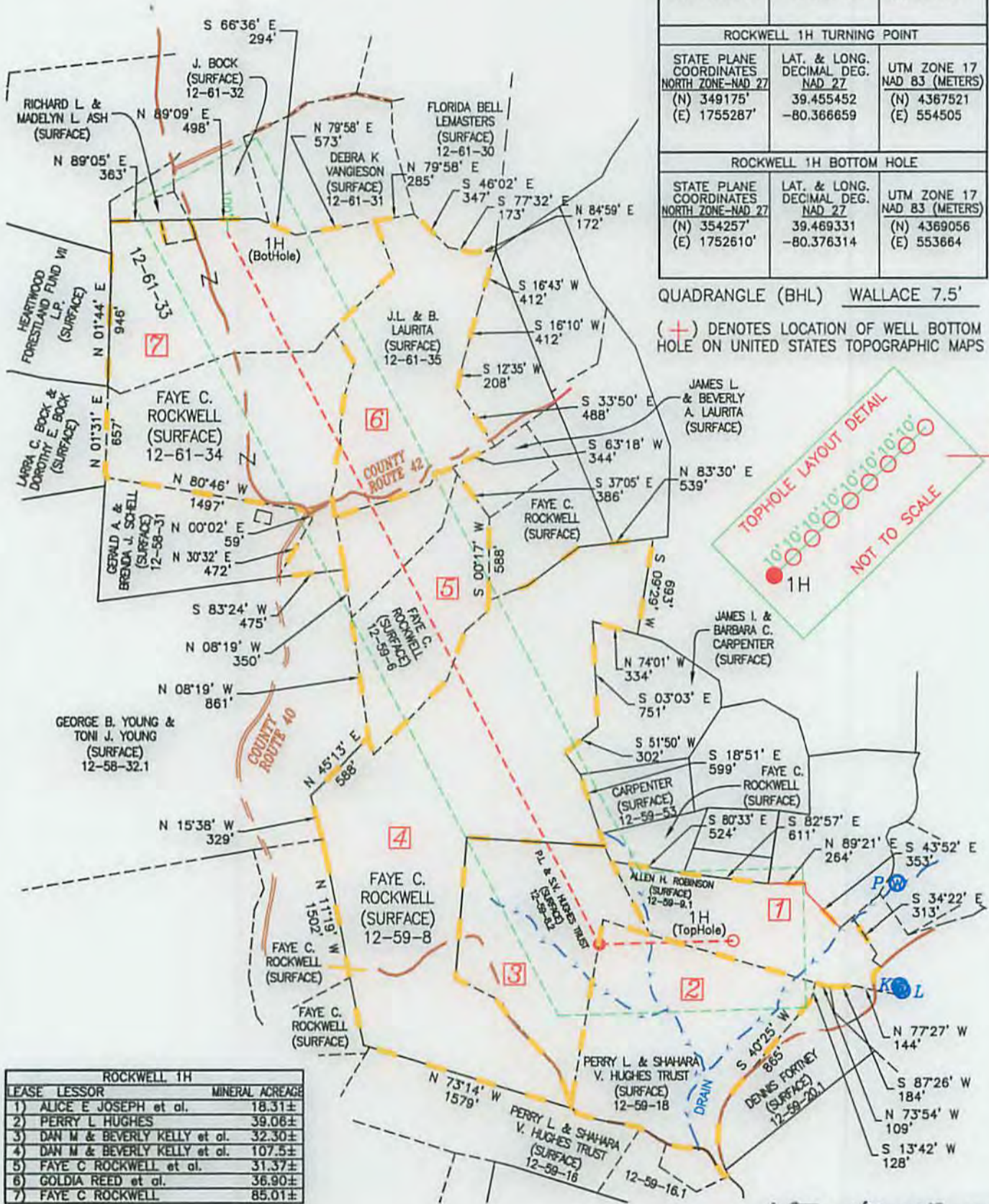
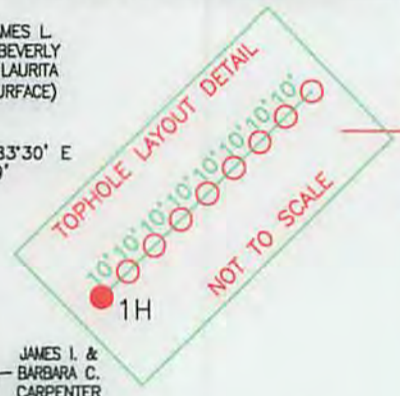
| LEGEND                            |           |
|-----------------------------------|-----------|
| LEASE BOUNDARY                    | — — — — — |
| SURFACE BOUNDARY                  | - - - - - |
| CREEK / STREAM                    | ~ ~ ~ ~ ~ |
| ROADS                             | — — — — — |
| PROPOSED LATERAL                  | - - - - - |
| 500' LATERAL OFFSET               | — — — — — |
| EXISTING GAS WELL                 | ⊙         |
| GROUNDWATER SOURCE / WATER SUPPLY | ⊕         |

| ROCKWELL 1H TOP HOLE  |  |   |
|---|--|---|
| STATE PLANE COORDINATES<br>NORTH ZONE-NAD 27<br>(N) 349200'<br>(E) 1756246' | LAT. & LONG. DECIMAL DEG.<br>NAD 27<br>39.455544<br>-80.363266 | UTM ZONE 17<br>NAD 83 (METERS)<br>(N) 4367534<br>(E) 554797 |

| ROCKWELL 1H TURNING POINT   |  |   |
|---|--|---|
| STATE PLANE COORDINATES<br>NORTH ZONE-NAD 27<br>(N) 349175'<br>(E) 1755287' | LAT. & LONG. DECIMAL DEG.<br>NAD 27<br>39.455452<br>-80.366659 | UTM ZONE 17<br>NAD 83 (METERS)<br>(N) 4367521<br>(E) 554505 |

| ROCKWELL 1H BOTTOM HOLE   |  |   |
|---|--|---|
| STATE PLANE COORDINATES<br>NORTH ZONE-NAD 27<br>(N) 354257'<br>(E) 1752610' | LAT. & LONG. DECIMAL DEG.<br>NAD 27<br>39.469331<br>-80.376314 | UTM ZONE 17<br>NAD 83 (METERS)<br>(N) 4369056<br>(E) 553664 |

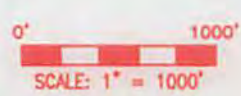
QUADRANGLE (BHL) WALLACE 7.5'  
(+) DENOTES LOCATION OF WELL BOTTOM HOLE ON UNITED STATES TOPOGRAPHIC MAPS



| ROCKWELL 1H                     |                 |
|---------------------------------|-----------------|
| LEASE LESSOR                    | MINERAL ACREAGE |
| 1) ALICE E JOSEPH et al.        | 18.31±          |
| 2) PERRY L HUGHES               | 39.06±          |
| 3) DAN M & BEVERLY KELLY et al. | 32.30±          |
| 4) DAN M & BEVERLY KELLY et al. | 107.5±          |
| 5) FAYE C ROCKWELL et al.       | 31.37±          |
| 6) GOLDIA REED et al.           | 36.90±          |
| 7) FAYE C ROCKWELL              | 85.01±          |



**XTO ENERGY**  
810 HOUSTON STREET  
FORT WORTH, TX 76102



Voice: (724) 635-0210



Excellence-Every project. Every day.

**TRI-COUNTY ENGINEERING, LLC**

An ENERCON Company  
319 Painiersville Road  
Hunker, PA 15639  
www.tricountyeng.com

10/23/2015  
Fax: (724) 635-0676

**SUPPLEMENTAL SURFACE & LESSOR EXHIBIT**

**ROCKWELL 1H**

|                    |  |
|--------------------|--|
| DRAWN BY:<br>BMK   | MANNINGTON DISTRICT,<br>MARION COUNTY, WEST VIRGINIA |
| DATE:<br>08/27/15  | FILE NO.   |
| SCALE:<br>1"=1000' | 2 OF 2<br>OG57-09                                    |

Longitude: 80°22'30"  
(Scale: 1" = 2000')

API: 47-049-02467

HGA



04902407

WW-6A1  
(5/13)

Operator's Well No. Rockwell 1H

**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 |
|----------------------|-------------------------------|----------------------------|---------|-----------|
| 1                    | Alice E. Joseph, single et al | Exploration Partners, LLC  | 1/8     | 965/929   |
| 2                    | Perry L. Hughes               | Exploration Partners, LLC  | 1/8     | 1006/833  |
| 3                    | Dan & Beverly Kelly et al     | XTO Energy Inc.            | 1/8     | 1110/108  |
| 4                    | Dan & Beverly Kelly et al     | XTO Energy Inc.            | 1/8     | 1110/108  |
| 5                    | Faye C. Rockwell              | LBJ Energy Associates, LLC | 1/8     | 1023/284  |

See attached

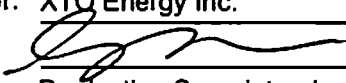
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

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: XTO Energy Inc.

By: 

Its: Production Superintendent

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Page 1 of \_\_\_\_\_  
SEP 03 2015  
10/23/2015

WV Department of  
Environmental Protection

## ROCKWELL 1H

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SEP 03 2015

New York Department of  
Environmental Conservation

| Case #  | Deed Book | Page | Lessor   | Lessee   |
|---------|-----------|------|--|--|
| 0490240 |           |      |  |  |
|         | 965       | 929  | Alice E. Joseph, single  | Exploration Partners, LLC<br>Exploration Partners assigns all depths from the surface to the bottom of the uppermost member of the Onondaga Group to Linn Energy at 32-151, and Linn assigns the same to XTO Energy at 33-200. |
|         | 1150      | 231  | Allen H. Robinson  | XTO Energy Inc.  |
| 2       | 1006      | 833  | Perry L. Hughes, a married person  | Exploration Partners, LLC<br>Exploration Partners assigns all depths from the surface to the TOP of the uppermost member of the Onondaga Group to Linn Energy at 32-151, and Linn assigns the same to XTO Energy at 33-200.    |
| 3       | 1110      | 108  | Beverly Kelly and Dan M. Kelly, married  | XTO Energy Inc.  |
|         | 1110      | 114  | Maurice Heldreth and Judith Heldreth, married                                  | XTO Energy Inc.  |
|         | 1112      | 393  | Shirley Paul and Jim Paul, married   | XTO Energy Inc.  |
|         | 1112      | 399  | Marilyn Weese and Marvin Weese, married  | XTO Energy Inc.  |
|         | 1116      | 366  | Johnathan Charles Miller, single and dealing in his sole and separate property | XTO Energy Inc.  |
|         | 1118      | 125  | Randy Lee Miller and Lynne E. Miller, married                                  | XTO Energy Inc.  |
|         | 1116      | 342  | Debbie Kay Doney and Jerry E. Doney, married                                   | XTO Energy Inc.  |
|         | 1116      | 369  | David Eugene Miller, single and dealing in his sole and separate property      | XTO Energy Inc.  |
|         | 1116      | 375  | Gary Donald Miller, single and dealing in his sole and separate property       | XTO Energy Inc.  |
|         | 1116      | 372  | Duane Dale Miller, single and dealing in his sole and separate property        | XTO Energy Inc.  |

|  |      |     |                                   |   |
|--|------|-----|-----------------------------------|---|
|  | 1006 | 833 | Perry L. Hughes, a married person | Exploration Partners, LLC<br>Exploration Partners assigns all depths from the surface to the TOP of the uppermost member of the Onondaga Group to Linn Energy at 32-151, and Linn assigns the same to XTO Energy at 33-200. |
|--|------|-----|-----------------------------------|---|

|  |   |      |     |  |   |
|--|---|------|-----|--|---|
|  | 4 | 1110 | 108 | Beverly Kelly and Dan M. Kelly, married  | XTO Energy Inc.   |
|  |   | 1110 | 114 | Maurice Heldreth and Judith Heldreth, married                                  | XTO Energy Inc.   |
|  |   | 1112 | 393 | Shirley Paul and Jim Paul, married   | XTO Energy Inc.   |
|  |   | 1112 | 399 | Marilyn Weese and Marvin Weese, married  | XTO Energy Inc.   |
|  |   | 1116 | 366 | Johnathan Charles Miller, single and dealing in his sole and separate property | XTO Energy Inc.   |
|  |   | 1118 | 125 | Randy Lee Miller and Lynne E. Miller, married                                  | XTO Energy Inc.   |
|  |   | 1116 | 342 | Debbie Kay Doney and Jerry E. Doney, married                                   | XTO Energy Inc.   |
|  |   | 1116 | 369 | David Eugene Miller, single and dealing in his sole and separate property      | XTO Energy Inc.   |
|  |   | 1116 | 375 | Gary Donald Miller, single and dealing in his sole and separate property       | XTO Energy Inc.   |
|  |   | 1116 | 372 | Duane Dale Miller, single and dealing in his sole and separate property        | XTO Energy Inc.   |
|  |   | 1023 | 284 | Faye C. Rockwell, widow  | LBJ Energy Associates, LLC<br>LBJ Energy to Linn Energy at 30-953, to XTO Energy at 33-200. |

|   |      |     |                         |   |
|---|------|-----|-------------------------|---|
| 5 | 1023 | 284 | Faye C. Rockwell, widow | LBJ Energy Associates, LLC<br>LBJ Energy to Linn Energy at 30-953, to XTO Energy at 33-200. |
|---|------|-----|-------------------------|---|

|   |     |     |  |   |
|---|-----|-----|--|---|
| 6 | 968 | 988 | Madonna Heldreth, P.O.A. for Glen Sturm, Jr. | Exploration Partners, LLC<br>Exploration Partners, LLC assigns from the surface to the TOP of the Onondaga to Linn Energy Holdings, LLC at 32-151 and Linn to XTO Energy at 33-200. |
|---|-----|-----|--|---|



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|  |      |      |  |   |
|--|------|------|--|---|
|  | 968  | 1193 | Betty Cappel   | Exploration Partners, LLC<br>Exploration Partners, LLC assigns from the surface to the TOP of the Onondaga to Linn Energy Holdings, LLC at 32-151 and Linn to XTO Energy at 33-200. |
|  | 969  | 304  | Goldia Reed (widow)  | Exploration Partners, LLC<br>Exploration Partners, LLC assigns from the surface to the TOP of the Onondaga to Linn Energy Holdings, LLC at 32-151 and Linn to XTO Energy at 33-200. |
|  | 968  | 1197 | Mary Frances Stevens (widow)   | Exploration Partners, LLC<br>Exploration Partners, LLC assigns from the surface to the TOP of the Onondaga to Linn Energy Holdings, LLC at 32-151 and Linn to XTO Energy at 33-200. |
|  | 969  | 1189 | Edward Glover and Terry Glover (wife)                                  | Exploration Partners, LLC<br>Exploration Partners, LLC assigns from the surface to the TOP of the Onondaga to Linn Energy Holdings, LLC at 32-151 and Linn to XTO Energy at 33-200. |
|  | 969  | 308  | Daniel J. Glover and Sue Glover (wife)                                 | Exploration Partners, LLC<br>Exploration Partners, LLC assigns from the surface to the TOP of the Onondaga to Linn Energy Holdings, LLC at 32-151 and Linn to XTO Energy at 33-200. |
|  | 1167 | 704  | Bernard Burke Price  | XTO Energy Inc.   |
|  | 1167 | 701  | Maynard Price, a married man dealing in his sole and separate property | XTO Energy Inc.   |
|  | 1168 | 508  | Lois Price Runkle, a widow by death not having since remarried         | XTO Energy Inc.   |

|   |      |     |                          |   |
|---|------|-----|--------------------------|---|
| 7 | 1023 | 284 | Faye C. Rockwell (widow) | LBJ Energy Associates, LLC<br>LBJ Energy to Linn Energy at 30-953, to XTO Energy at 33-200. |
|---|------|-----|--------------------------|---|

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New York State Department of  
Environmental Protection

04902407



XTO Energy Inc.  
810 Houston Street  
Fort Worth, TX 76102-6298  
(817) 870-2800  
(817) 885-1938 Fax

August 12, 2015

Office of Oil & Gas  
WVDEP  
601 57<sup>th</sup> Street  
Charleston, WV 25304

RE: Rights to Drill Under Road - Hughes

To Whom It May Concern,

Based on extended research by XTO Energy's Land Department, and their brokers and title attorneys, we have all necessary mineral rights under Marion County Route 42, in the location of our planned well bore's for the Rockwell 1H.

Sincerely,

A handwritten signature in blue ink that reads 'Kaitlyn Lee'.

Kaitlyn Lee  
Landman  
XTO Energy Inc.  
810 Houston Street  
Fort Worth, TX. 76102  
Office: (817) 885 – 2748  
Fax: (817) 885 – 1806  
Kaitlyn\_Lee@xtoenergy.com

An ExxonMobil Subsidiary

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WV Department of

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WW-6AC  
(1/12)

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

Date of Notice Certification: 8/31/15

API No. 47  
Operator's Well No. 04902407  
Well Pad Name: Rockwell Pad

**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>West Virginia</u>       | UTM NAD 83  | Easting: <u>554797</u>   |
| County: <u>Marion</u>             |   | Northing: <u>4367534</u> |
| District: <u>Mannington</u>       | Public Road Access: <u>Harrison County Rt. 3 (Robinson Wyatt Run)</u> |                          |
| Quadrangle: <u>Shinnston 7.5'</u> | Generally used farm name: <u>Allen Robinson</u>                       |                          |
| Watershed: <u>Bingamon 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 checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><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><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/<br/>NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/<br/>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.

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WV Department of  
Environmental Protection

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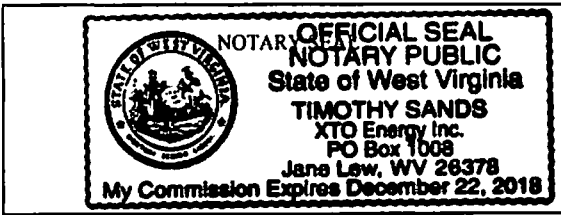
WW-6AC  
(1/12)

**Certification of Notice is hereby given:**

THEREFORE, I Gary Beall, 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: XTO Energy Inc.  
By: [Signature]  
Its: Production Superintendent  
Telephone: 304-884-6000

Address: PO Box 1008  
Jane Lew, WV 26378  
Facsimile: 304-884-6809  
Email: \_\_\_\_\_



Subscribed and sworn before me this 31 day of Aug 2015.  
[Signature] Notary Public  
My Commission Expires 12/22/18

**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](mailto:depprivacyofficer@wv.gov).

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WV Department of  
Environmental Protection



WW-6A  
(9-13)

04902407  
API NO. 47-  
OPERATOR WELL NO. Rockwell 1H  
Well Pad Name: Rockwell Pad

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: 9/30/15 Date Permit Application Filed: 9/2/15

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: Allen Robinson  
Address: 9572 Newton Falls Rd.  
Ravanna, OH 44266

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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

Name: David Webb  
Address: 931 Joetown Rd.  
Mannington, WV 26582

Name: Fara May Webb  
Address: 1084 Joetown Rd.  
Mannington, WV 26582

SURFACE OWNER(s) (Impoundments or Pits)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: Consolidation Coal Company  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317

COAL OPERATOR

Name: Murray American Energy  
Address: 1 Bridge St.  
Monongah, WV 26554

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

Name: Bunner Land Company Inc.  
Address: PO Box 98  
Byesville, OH 43723

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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|                              |  |  |
|------------------------------|--|--|
|                              | <b>Rockwell</b>  |  |
| <b>Landowners</b>            | ✓ Allen Robinson, 9572 Newton Falls Rd, Ravanna, OH 44266                    |  |
|                              | ✓ David Webb, 931 Joetown Rd., Mannington, WV 26582                          |  |
|                              | ✓ Fara May Webb, 1084 Joetown Rd, Mannington, WV 26852                       |  |
|                              | ✓ Faye Rockwell, 316 East Run Rd., Farmington, WV 26571                      |  |
|                              | ✓ Gerald Lucas Heirs, 1457 Wyatt Rd., Mannington, WV 26582                   |  |
|                              | ✓ James & Barbara Carpenter, 890 Hawks Nest Rd, Mannington, WV 26582         |  |
|                              | ✓ Janet Nutter, 324 Elmhurst St., Morgantown, WV 26505                       |  |
|                              | ✓ John & Rita Heldreth, 12 Humanity St., Fairmont, WV 26554                  |  |
|                              | ✓ Kathleen Crim Stone, 5117 New Carlisle Pike, Springfield, OH 45504         |  |
|                              | ✓ Perry Hughes, 70 Twin Creek Trl., Buffalo, MO 65622                        |  |
|                              |  |  |
|                              |  |  |
| <b>Coal Owners/Operators</b> | ✓ Consolidation Coal Company, 1000 Consol Energy Drive, Canonsburg, PA 15317 |  |
|                              | ✓ Murray American Energy, attn: Troy Freels, 1 Bridge St, Monongah, WV 26554 |  |
|                              |  |  |
|                              |  |  |
| <b>Water Owners</b>          | ✓ Brunner Land Company Inc., PO Box 98, Byesville, OH 43723                  |  |
|                              | ✓ Maggie & Howard Jones, 752 Hawks Nest Rd, Mannington, WV 26582             |  |
|                              |  |  |
|                              |  |  |
| <b>Within 625'</b>           | NA   |  |
|                              |  |  |

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WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. Rockwell 1H  
Well Pad Name: Rockwell Pad

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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 if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to 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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WV Department of

04902407

WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. Rockwell 1H  
Well Pad Name: Rockwell Pad

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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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.**

RE ~~10/23/2015~~  
Office of Oil and Gas

SEP 03 2015

WV Department of  
Environmental Protection

04902407

WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. Rockwell 1H  
Well Pad Name: Rockwell Pad

**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.

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SEP 23 2015  
10/23/2015  
Environmental Protection



04902407

WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. Rockwell 1H  
Well Pad Name: Rockwell Pad

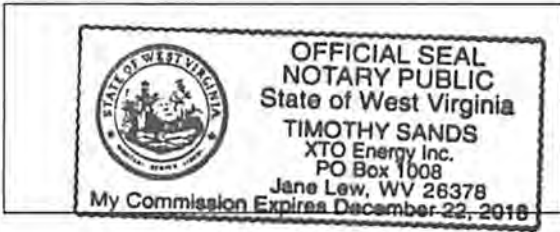
**Notice is hereby given by:**

Well Operator: XTO Energy, Inc.  
Telephone: 304-884-6000  
Email: \_\_\_\_\_

Address: PO Box 1008  
Jane Lew, WV 26378  
Facsimile: 304-884-6809

**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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 31 day of Aug, 2015

[Signature] Notary Public

My Commission Expires 12/22/18

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Office of Environmental Protection  
SEP 03 10/23/2015

WV Department of  
Environmental Protection



04902407

|   |                           |
|---|---------------------------|
| ● | WATER SUPPLY - WATER WELL |
| ○ | WATER SUPPLY - SPRING     |

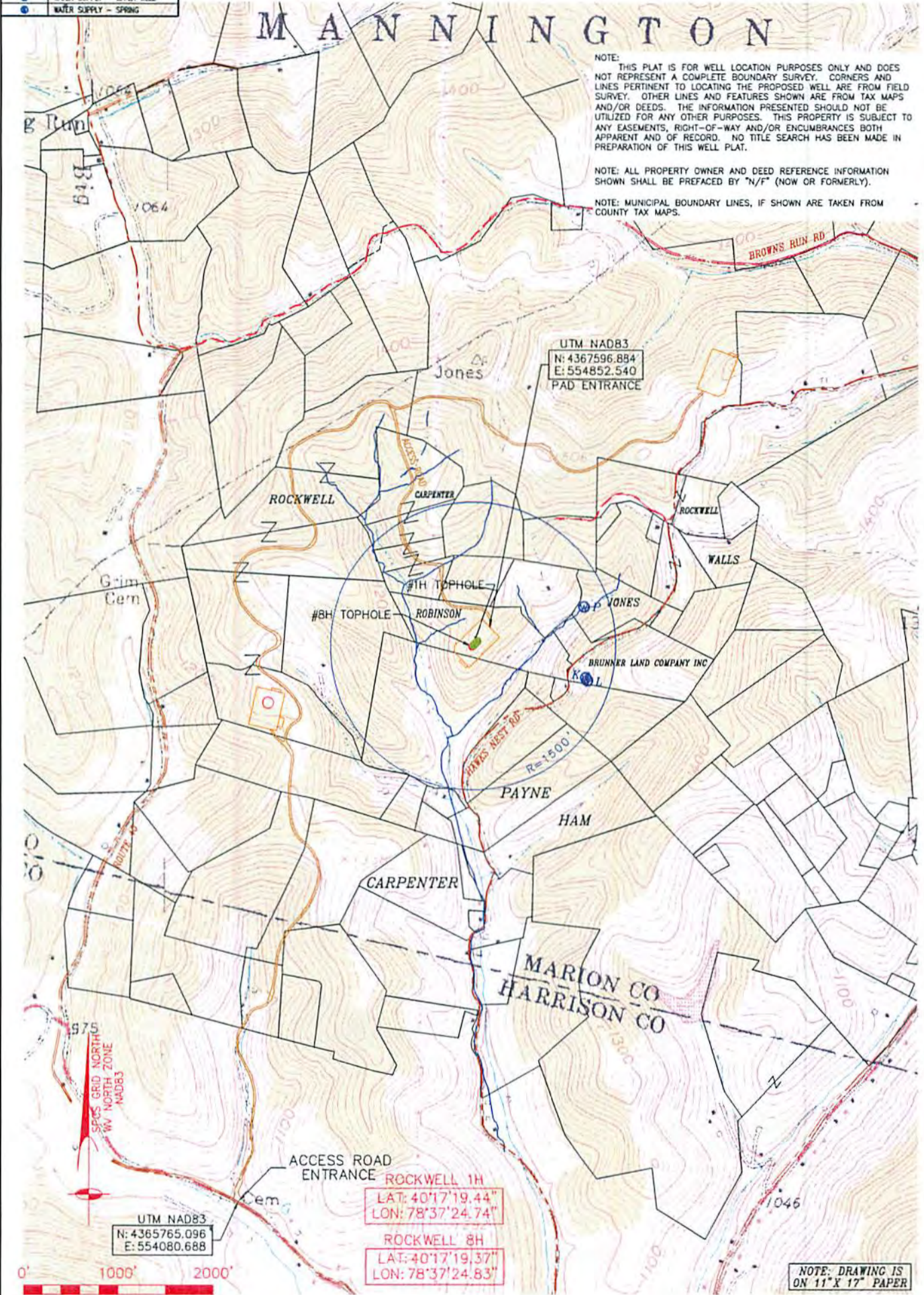
# MANNINGTON

NOTE: THIS PLAT IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. CORNERS AND LINES PERTINENT TO LOCATING THE PROPOSED WELL ARE FROM FIELD SURVEY. OTHER LINES AND FEATURES SHOWN ARE FROM TAX MAPS AND/OR DEEDS. THE INFORMATION PRESENTED SHOULD NOT BE UTILIZED FOR ANY OTHER PURPOSES. THIS PROPERTY IS SUBJECT TO ANY EASEMENTS, RIGHT-OF-WAY AND/OR ENCUMBRANCES BOTH APPARENT AND OF RECORD. NO TITLE SEARCH HAS BEEN MADE IN PREPARATION OF THIS WELL PLAT.

NOTE: ALL PROPERTY OWNER AND DEED REFERENCE INFORMATION SHOWN SHALL BE PREFACED BY "N/F" (NOW OR FORMERLY).

NOTE: MUNICIPAL BOUNDARY LINES, IF SHOWN ARE TAKEN FROM COUNTY TAX MAPS.

UTM NAD83  
N: 4367596.884  
E: 554852.540  
PAD ENTRANCE



UTM NAD83  
N: 4365765.096  
E: 554080.688

ROCKWELL 1H  
LAT: 40°17'19.44"  
LON: 78°37'24.74"  
  
ROCKWELL 8H  
LAT: 40°17'19.37"  
LON: 78°37'24.83"

NOTE: DRAWING IS ON 11" X 17" PAPER

| REVISED | COMMENTS |
|---------|----------|
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**TRI - COUNTY ENGINEERING, LLC**  
319 PAINTERSVILLE ROAD  
HUNKER, PA 15639  
VOICE: 724 / 635-0210 FAX: 724 / 635-0676



ROCKWELL UNIT WATER OVERALL  
Office Gas  
XTO ENERGY INC.

10/23/2015

|                   |               |           |   |
|-------------------|---------------|-----------|---|
| DRAWN BY: BMK     | DATE: 8/12/15 | CIP       | MANNINGTON TOWNSHIP<br>MARION COUNTY, WEST VIRGINIA |
| SCALE: 1" = 1000' | SHEET: 1      | FILE NO.: | XTOOG57-09  |

Environmental Protection



04902407.

XTO ENERGY INC.

XTOOG57-09

ROCKWELL WATER OFFSET

(1500' OFFSET)

8/13/2015

| POINT | SOURCE           | NAME                      | MAILING ADDRESS   | CITY       | STATE | ZIP   | BEARING       | DISTANCE | PARCEL ID WITHING 3000' |
|-------|------------------|---------------------------|-------------------|------------|-------|-------|---------------|----------|-------------------------|
| K     | WELL & CITY      | BRUNNER LAND COMPANY INC  | P O BOX 98        | BYESVILLE  | OH    | 43723 | S 76°03'55" E | 1255     | 12-60-1                 |
| L     | SPRING DEVELOPED | BRUNNER LAND COMPANY INC  | P O BOX 98        | BYESVILLE  | OH    | 43723 | S 75°03'14" E | 1277     | 12-60-1                 |
| P     | WELL             | MAGGIE R & HOWARD R JONES | 752 HAWKS NEST RD | MANNINGTON | WV    | 26582 | N 70°03'44" E | 1273     | 12-60-2.2               |

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Office of Chief Justice

SEP 03 2015

WV Department of Environmental Protection



**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF ENTRY FOR PLAT SURVEY**

**Notice Time Requirement:** Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

**Date of Notice:** August 7, 2015    **Date of Planned Entry:** \_\_\_\_\_

**Delivery method pursuant to West Virginia Code § 22-6A-10a**

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

SURFACE OWNER(s)

Name: Allen H. Robinson  
Address: 9572 Newton Falls Rd  
Ravanna, OH 44266

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: \*See Attached Form  
Address: \_\_\_\_\_

MINERAL OWNER(s)

Name: Alice E. Joseph Estate  
Address: P.O. Box 59  
Bruceston Mills, WV 26525

\*please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

|                                  |  |
|----------------------------------|--|
| State: <u>West Virginia</u>      | Approx. Latitude & Longitude: <u>39.455648, -80.363050</u> |
| County: <u>Marion</u>            | Public Road Access: <u>CR 40/4</u>                         |
| District: <u>Mannington</u>      | Watershed: <u>Coal Lick Run</u>                            |
| Quadrangle: <u>Shinnston 7.5</u> | Generally used farm name: <u>Rockwell 1H</u>               |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

|                                       |                                |
|---------------------------------------|--------------------------------|
| Well Operator: <u>XTO Energy Inc.</u> | Address: <u>P.O. Box 1008</u>  |
| Telephone: <u>304-884-6000</u>        | <u>Jane Lew, WV 26378</u>      |
| Email: _____                          | Facsimile: <u>304-884-6008</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](mailto:depprivacyofficer@wv.gov).

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OCT 23 2015

SEP 03 2015

E.M. ...

Coal Owners:

04902407

| <u>Name</u>                                 | <u>Address</u>                                 |
|---|--|
| Consol Mining Company /                     | 1000 Consol Energy Dr.<br>Canonsburg, PA 15317 |
| Murray American Energy<br>c/o Troy Freels / | 1 Bridge St.<br>Monongah, WV 26554             |

10/23/2015

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04902407

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: August 7, 2015 Date of Planned Entry: \_\_\_\_\_

Delivery method pursuant to West Virginia Code § 22-6A-10a

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Allen H. Robinson  
Address: 9572 Newton Falls Rd  
Ravanna, OH 44266

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: N/A Access Route Only  
Address: \_\_\_\_\_

MINERAL OWNER(s)

Name: N/A Access Route Only  
Address: \_\_\_\_\_

\*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

|                                  |  |
|----------------------------------|--|
| State: <u>West Virginia</u>      | Approx. Latitude & Longitude: <u>39.455648, -80.363050</u> |
| County: <u>Marion</u>            | Public Road Access: <u>CR 40/4</u>                         |
| District: <u>Mannington</u>      | Watershed: <u>Coal Lick Run</u>                            |
| Quadrangle: <u>Shinnston 7.5</u> | Generally used farm name: <u>Rockwell 1H</u>               |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

Well Operator: XTO Energy Inc.  
Telephone: 304-884-6000  
Email: \_\_\_\_\_

Address: P.O. Box 1008  
Jane Lew, WV 26378  
Facsimile: 304-884-6008

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](mailto:depprivacyofficer@wv.gov).

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Environmental Protection





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WW-6A5  
(1/12)

Operator Well No. Rockwell 1H

**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: 8/31/15 Date Permit Application Filed: 9/2/15

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: Allen Robinson  
Address: 9572 Newton Falls Rd.  
Ravanna, OH 44266

Name: See attached  
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>West Virginia</u>  | UTM NAD 83 Easting:       | <u>554797</u>                                     |
| County:     | <u>Marion</u>         | UTM NAD 83 Northing:      | <u>4367534</u>                                    |
| District:   | <u>Mannington</u>     | Public Road Access:       | <u>Harrison County Rt. 3 (Robinson Wyatt Run)</u> |
| Quadrangle: | <u>Shinnston 7.5'</u> | Generally used farm name: | <u>Allen Robinson</u>                             |
| Watershed:  | <u>Bingamon 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: XTO Energy Inc.  
Telephone: 304-884-6000  
Email: \_\_\_\_\_

Address: PO Box 1008  
Jane Lew, WV 26378  
Facsimile: 304-884-6609

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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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WV Department of  
Environmental Protection

|                   |  |
|-------------------|--|
|                   |  |
| <b>Landowners</b> | ✓ Allen Robinson, 9572 Newton Falls Rd, Ravanna, OH 44266            |
|                   | ✓ David Webb, 931 Joetown Rd., Mannington, WV 26582                  |
|                   | ✓ Fara May Webb, 1084 Joetown Rd, Mannington, WV 26852               |
|                   | ✓ Faye Rockwell, 316 East Run Rd., Farmington, WV 26571              |
|                   | ✓ Gerald Lucas Heirs, 1457 Wyatt Rd., Mannington, WV 26582           |
|                   | ✓ James & Barbara Carpenter, 890 Hawks Nest Rd, Mannington, WV 26582 |
|                   | ✓ Janet Nutter, 324 Elmhurst St., Morgantown, WV 26505               |
|                   | ✓ John & Rita Heldreth, 12 Humanity St., Fairmont, WV 26554          |
|                   | ✓ Kathleen Crim Stone, 5117 New Carlisle Pike, Springfield, OH 45504 |
|                   | ✓ Perry Hughes, 70 Twin Creek Trl., Buffalo, MO 65622                |
|                   |  |
|                   |  |

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 WV Department of  
 Environmental Protection



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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

July 21, 2015

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

Subject: DOH Permit for the Rockwell Well Pad, Marion County  
Rockwell 1H

Dear Mr. Martin,

This well site will be accessed from Permit #04-2014-1246 issued to XTO Energy, Inc. for access to the State Road for a well site located off of Harrison County Route 3 SLS.

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,

A handwritten signature in blue ink that reads "Gary K. Clayton".

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

Cc: Tim Sands  
XTO Energy, Inc.  
CH, OM, D-4  
File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

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Office of Oil and Gas

SEP 03 2015

WV Department of  
Environmental Protection

10/23/2015

# Hydraulic Fracturing Fluid Product Component Information Disclosure 04902407

## Hydraulic Fracturing Fluid Composition:

| Trade Name                       | Supplier       | Purpose            | Ingredients                               | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|----------------------------------|----------------|--------------------|---|--|--|--|----------|
| Water                            | XTO            | Carrier/Base Fluid | Water                                     | 7732-18-5                                | 100.00%  | 88.35%   |          |
| Sand (Proppant)                  | Universal      | Proppant           | Silica Substrate                          |  | 100.00%  | 11.20%   |          |
| Hydrochloric Acid (10%)          | PPG Industries | Acidizing          | Hydrochloric Acid                         | 7647-01-0                                | 10.00%   | 0.00%  |          |
|                                  |                |                    | Other - (non-hazardous)                   |  | 85.00%   | 0.00%  |          |
| Hydrochloric Acid (7.5%)         | PPG Industries | Acidizing          | Hydrochloric Acid                         | 7647-01-0                                | 7.50%  | 0.03%  |          |
|                                  |                |                    | Other - (non-hazardous)                   |  | 92.50%   | 0.34%  |          |
| Acid Inhibitor, Unihib G         | GeoSafe        | Acid Inhibitor     | Proprietary Blend Surfactants             |  | 35.00%   | 0.00%  |          |
|                                  |                |                    | Short Chained Glycol Ether                | 112-34-5                                 | 50.00%   | 0.00%  |          |
|                                  |                |                    | Ethoxylated alcohol                       |  | 35.00%   | 0.00%  |          |
| Biocide, EC6116A                 | Nalco          | Biocide            | Dibromoacetone                            | 3252-43-5                                | 5.00%  | 0.00%  |          |
|                                  |                |                    | 2,2-Dibromo-3-nitropropionamide           | 10222-01-2                               | 30.00%   | 0.00%  |          |
|                                  |                |                    | Polyethylene Glycol                       | 25322-68-3                               | 60.00%   | 0.01%  |          |
|                                  |                |                    | Other - (non-hazardous)                   |  | 5.00%  | 0.00%  |          |
| Clay Stabilizer, Cla-Chek G      | Shrieve        | Clay Stabilizer    | Water                                     | 7732-18-5                                | 15.00%   | 0.00%  |          |
|                                  |                |                    | Other - (non-hazardous)                   |  | 85.00%   | 0.00%  |          |
| Friction Reducer, Unislick ST-50 | CESI Chemical  | Friction Reducer   | Petroleum distillates, hydrotreated light | 64742-47-8                               | 30.00%   | 0.02%  |          |
|                                  |                |                    | Other - (non-hazardous)                   |  | 70.00%   | 0.04%  |          |
| Scale Inhibitor, ScaleHib A      | Nalco          | Scale Inhibitor    | Ethylene Glycol                           | 107-21-1                                 | 30.00%   | 0.00%  |          |
|                                  |                |                    | Other - (non-hazardous)                   |  | 70.00%   | 0.01%  |          |
| Gel Breaker, LEB-10X             | Universal      | Gel Breaker        | Ethylene Glycol                           | 107-21-1                                 | 40.00%   | 0.00%  |          |
|                                  |                |                    | Other - (non-hazardous)                   |  | 60.00%   | 0.00%  |          |
| Unigel 5F                        | Universal      | Gel                | Guar Gum                                  | 9000-30-0                                | 99.00%   | 0.00%  |          |
|                                  |                |                    | Other - (non-hazardous)                   |  | 1.00%  | 0.00%  |          |
| Slurry Gel, WGA-7 SLR            | Universal      | Gel                | Guar Gum                                  | 9000-30-0                                | 50.00%   | 0.00%  |          |
|                                  |                |                    | Petroleum Distillate                      | 64742-47-8                               | 55.00%   | 0.00%  |          |
|                                  |                |                    | Clay                                      |  | 5.00%  | 0.00%  |          |
|                                  |                |                    | Surfactant                                |  | 5.00%  | 0.00%  |          |
|                                  |                |                    | Buffer                                    |  | 5.00%  | 0.00%  |          |

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 SEP 03 2015  
 Department of  
 Environmental Protection

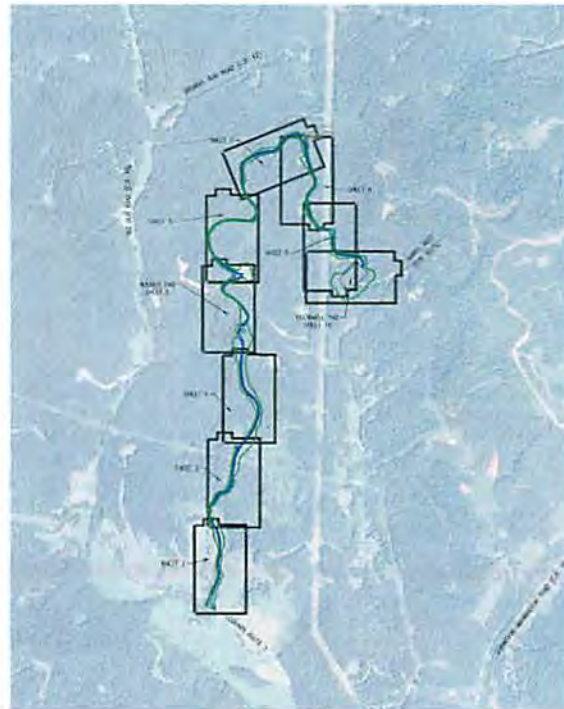
# SEDIMENT CONTROL PLAN FOR THE ROCKWELL WELL PAD & ACCESS ROAD EAGLE & MANNINGTON DISTRICTS HARRISON & MARION COUNTIES, WEST VIRGINIA



**SITE LOCATION MAP** MAP REF: SHANNON & WALLACE, WV U.S.G.S 7.5 MINUTE QUAD  
SCALE 1" = 2000'

APPROVED  
WVDEP OOG  
3/9/2015

API# 4902363



SCALE 1" = 1000'

| DISTURBED ACRAGE                 |             |                |
|----------------------------------|-------------|----------------|
| PROPERTY OWNER                   | TAX I.D.    | DISTURBED AREA |
| ERNA MAY REED                    | 09-148-05   | 1.092 AC       |
| DAVID W. REED                    | 05-148-05.2 | 2.200 AC       |
| GERALD L. LUCKS                  | 12-59-02    | 0.100 AC       |
| CRIM FAMILY (LIVING TRUST)       | 12-59-10    | 1.600 AC       |
| JOHN C. & NITA J. HELGREN        | 12-59-10    | 0.003 AC       |
| JANE T. NOTER & CATARINA WACHNER | 12-59-10.9  | 0.300 AC       |
| JOHN C. & NITA J. HELGREN        | 12-59-10    | 3.700 AC       |
| CRIM FAMILY (LIVING TRUST)       | 12-59-55    | 0.041 AC       |
| FAYE C. ROCKWELL                 | 12-59-09    | 1.600 AC       |
| PERRY L. HUGHES                  | 12-59-16    | 2.000 AC       |
| FAYE C. ROCKWELL                 | 12-59-08    | 8.500 AC       |
| PERRY L. HUGHES                  | 12-59-02    | 1.400 AC       |
| JAMES I. & BARBARA C. CARPENTER  | 12-59-51    | 1.200 AC       |
| JAMES I. & BARBARA C. CARPENTER  | 12-59-50    | 0.200 AC       |
| JAMES I. & BARBARA C. CARPENTER  | 12-59-53    | 0.700 AC       |
| FAYE C. ROCKWELL                 | 12-59-24.1  | 0.500 AC       |
| DONALD E. & JANE T. RICHARDS     | 12-59-59    | 0.200 AC       |
| ALLEN H. ROBINSON - ROAD         | 12-59-9.1   | 1.300 AC       |
| ALLEN H. ROBINSON - PAD          | 12-59-9.1   | 0.400 AC       |
| PERRY L. HUGHES - PAD            | 12-59-18    | 1.700 AC       |

| REVISIONS |               |         |     |
|-----------|---------------|---------|-----|
| NO.       | DESCRIPTION   | DATE    | BY  |
| 1         | WVDP COMMENTS | 1/29/15 | AKG |
|           |               |         |     |
|           |               |         |     |

NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THE PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE CORRECT LOCATIONS. THE DEPTH OF UTILITIES SHOWN DOES NOT RELIEVE THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR VERIFYING EXISTING UTILITIES FROM ANY OTHER SOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING UTILITIES FROM ANY OTHER SOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING UTILITIES FROM ANY OTHER SOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING UTILITIES FROM ANY OTHER SOURCES.

| DRAWING INDEX                    |                                     |              |
|----------------------------------|-------------------------------------|--------------|
| PLAN                             | TITLE                               | SHEET NUMBER |
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| "SEDIMENT CONTROL PLAN"          | ESS CONTROL PLAN - COVER            | SHEET 1      |
|                                  | ACCESS ROAD TO ROCKWELL WELL PAD    | SHEET 2      |
|                                  | ACCESS ROAD TO ROCKWELL WELL PAD    | SHEET 3      |
|                                  | ACCESS ROAD & FILL AREA 2           | SHEET 4      |
|                                  | ACCESS ROAD, & STOCKPILE AREAS      | SHEET 5      |
|                                  | ACCESS ROAD TO ROCKWELL WELL PAD    | SHEET 6      |
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|                                  | ROCKWELL WELL PAD & ACCESS ROAD     | SHEET 10     |
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|                                  | ACCESS ROAD CROSS SECTIONS          | SHEET 18     |
|                                  | ROCKWELL ACCESS ROAD CROSS SECTIONS | SHEET 19     |
| <b>"DETAILS &amp; NARRATIVE"</b> |                                     |              |
|                                  | DETAILS                             | SHEET 20     |
|                                  | DETAILS                             | SHEET 21     |
|                                  | DETAILS                             | SHEET 22     |
|                                  | NARRATIVE                           | SHEET 23     |
|                                  | NARRATIVE                           | SHEET 24     |
| <b>"CONTAINMENT SET"</b>         |                                     |              |
|                                  | PAD LAYOUT (DRILL PHASE)            | SHEET 25     |
|                                  | PAD LAYOUT (FRAC PHASE)             | SHEET 26     |
|                                  | DETAILS                             | SHEET 27     |

**XTO ENERGY**  
800 HOUSTON STREET  
FORT WORTH, TX 76102

**TRI-COUNTY ENGINEERING, LLC**

111 Pennsylvania Road  
Houston, TX 77060  
www.tri-countyeng.com

Phone: (714) 838-0215 Fax: (714) 838-0216

**SEDIMENT CONTROL PLAN - COVER**

**ROCKWELL WELL PAD & ACCESS ROADS**

Date: 8/27/14  
M/S: [blank]  
Scale: AS NOTED  
Sheet: 1 of 1

EAGLE DISTRICT (County)  
MANNINGTON DISTRICT (County)  
MANNINGTON DISTRICT (County)

SINCE 1979







04902407

# SEDIMENT CONTROL PLAN FOR THE ROCKWELL WELL PAD & ACCESS ROAD EAGLE & MANNINGTON DISTRICTS HARRISON & MARION COUNTIES, WEST VIRGINIA



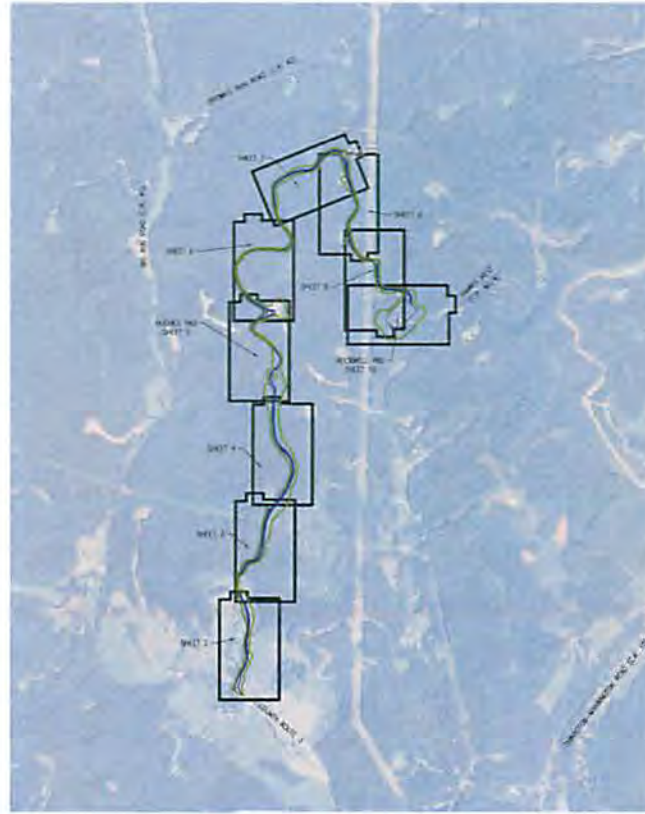
**SITE LOCATION MAP**  
SCALE 1" = 2000'  
MAP REF: SHENKSTON & WALLACE, WV  
U.S.G.S. 7.5 MINUTE QUAD

Office of Oil and Gas  
SEP-03-2015

WV Department of  
Environmental Protection  
WRH  
4-28-15

**APPROVED  
WVDEP OOG**  
*[Signature]* 3/9/2015

API# 4902363



| DISTURBED ACERAGE             |             |                |
|-------------------------------|-------------|----------------|
| PROPERTY OWNER                | TAX I.D.    | DISTURBED AREA |
| TARA MAY WEBB                 | 09-146-05   | 1.092 AC       |
| DAVID & WEBB                  | 09-146-05.2 | 2.230 AC       |
| DERALD L. LUCAS               | 12-59-9.2   | 0.100 AC       |
| CRIM FAMILY LIVING TRUST      | 12-59-55    | 1.600 AC       |
| JOHN G & RITA L HELDRETH      | 12-59-10    | 0.003 AC       |
| JANET NUTTER & BARBARA WAGNER | 12-59-10.5  | 0.800 AC       |
| JOHN G & RITA L HELDRETH      | 12-59-10    | 3.700 AC       |
| CRIM FAMILY LIVING TRUST      | 12-59-55    | 0.040 AC       |
| FAYE C ROCKWELL               | 12-59-09    | 1.600 AC       |
| PERRY L HUGHES                | 12-59-16    | 2.800 AC       |
| FAYE C ROCKWELL               | 12-59-08    | 8.600 AC       |
| PERRY L HUGHES                | 12-59-8.2   | 1.400 AC       |
| JAMES I & BARBARA C CARPENTER | 12-59-51    | 1.200 AC       |
| JAMES I & BARBARA C CARPENTER | 12-59-52    | 0.200 AC       |
| JAMES I & BARBARA C CARPENTER | 12-59-53    | 0.700 AC       |
| FAYE C ROCKWELL               | 12-59-24.1  | 0.600 AC       |
| DONALD E & JAME T RICHARDS    | 12-59-58    | 0.290 AC       |
| ALLEN H ROBINSON - ROAD       | 12-59-9.1   | 1.300 AC       |
| ALLEN H ROBINSON - PAD        | 12-59-9.1   | 5.400 AC       |
| PERRY L HUGHES - PAD          | 12-59-18    | 1.700 AC       |

| REVISIONS |                |         |    |
|-----------|----------------|---------|----|
| NO.       | DESCRIPTION    | DATE    | BY |
| 1         | WVDEP COMMENTS | 1/29/15 | AG |
|           |                |         |    |
|           |                |         |    |

NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THE PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE CORRECT LOCATIONS. THE DEPICTION OF UTILITIES HEREIN DOES NOT BELIEVE THE CONTRACTORS WHO WILL BE PERFORMING EXCAVATIONS FROM COMPLYING WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS, SAID REQUIREMENTS CAN BE SATISFIED, IN PART, BY CONTACTING THE MARY AT 1-800-245-6868.

| DRAWING INDEX                    |                                     |              |
|----------------------------------|-------------------------------------|--------------|
| PLAN                             | TITLE                               | SHEET NUMBER |
| <b>SEDIMENT CONTROL PLAN</b>     |                                     |              |
| *SEDIMENT CONTROL PLAN*          | E&S CONTROL PLAN - COVER            | SHEET 1      |
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| <b>*DETAILS &amp; NARRATIVE*</b> |                                     |              |
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|                                  | DETAILS                             | SHEET 21     |
|                                  | DETAILS                             | SHEET 22     |
|                                  | NARRATIVE                           | SHEET 23     |
|                                  | NARRATIVE                           | SHEET 24     |
| <b>*CONTAINMENT SET*</b>         |                                     |              |
|                                  | PAD LAYOUT (DRILL PHASE)            | SHEET 25     |
|                                  | PAD LAYOUT (FRAC PHASE)             | SHEET 26     |
|                                  | DETAILS                             | SHEET 27     |

1/22/2015

810 HOUSTON STREET  
FORT WORTH, TX 76102

**TRI-COUNTY ENGINEERING, LLC**

319 Furberville Road  
Marion, PA 15539  
www.tri-countyeng.com

Phone: (724) 639-0210 Fax: (724) 635-0876

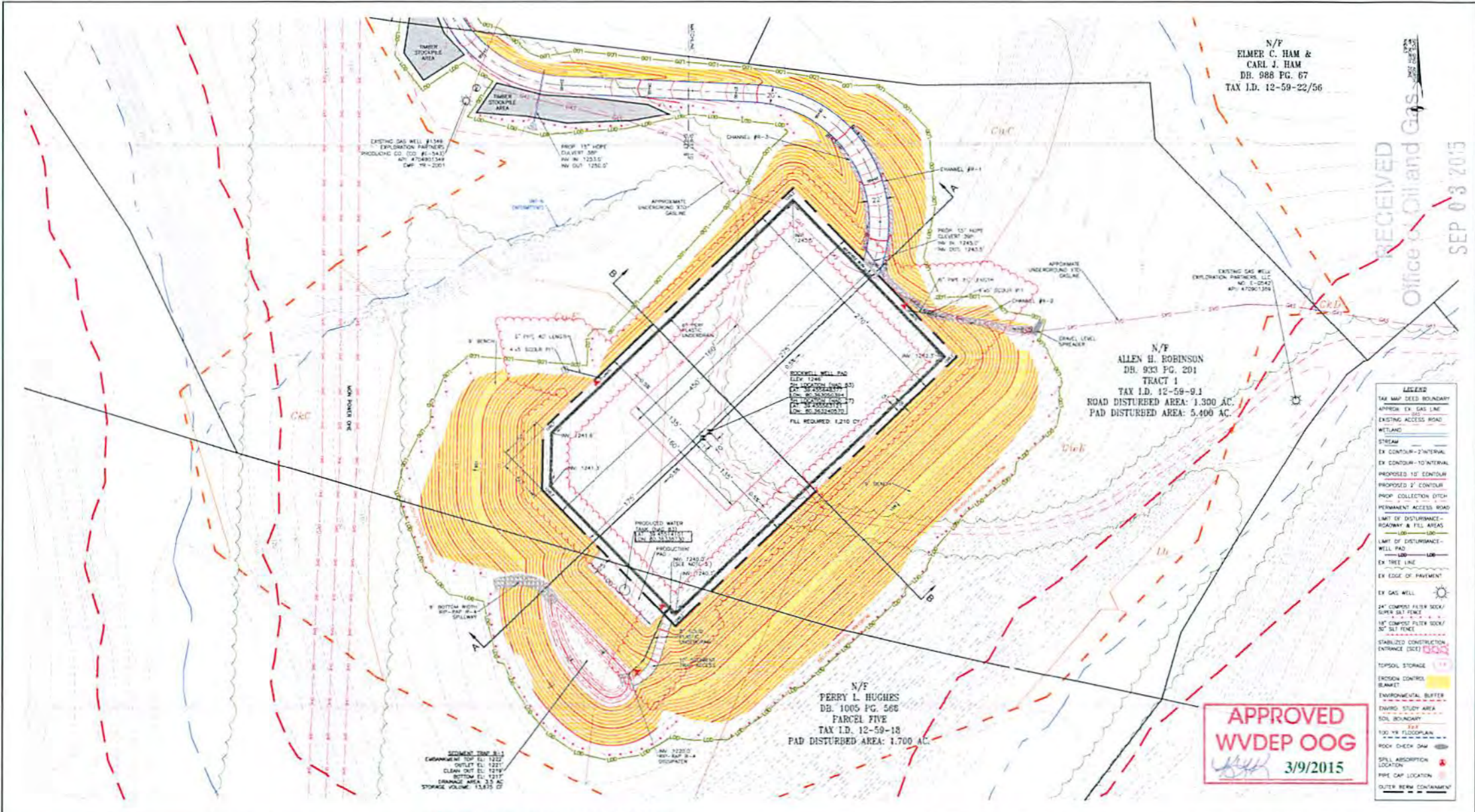
**SEDIMENT CONTROL PLAN - COVER**

**ROCKWELL WELL PAD & ACCESS ROADS**

|                 |                |  |
|-----------------|----------------|--|
| Drawn By: MFS   | Date: 8/22/14  | EAGLE DISTRICT, HARRISON COUNTY, WEST VIRGINIA |
| Scale: AS NOTED | Sheet: 1 of 27 |  |
| WT # 1205445    | Sh# 1          | 810-0042-23,24,25                              |



04902407



**APPROVED**  
**WVDEP OOG**  
 3/9/2015

| REVISIONS |                  |         |     |
|-----------|------------------|---------|-----|
| NO.       | DESCRIPTION      | DATE    | BY  |
| 1         | WVDEP COMMENTS 1 | 2/22/14 | AJC |
| 2         | WVDEP COMMENTS 2 | 2/23/15 | AJC |

**SEDIMENT CONTROL PLAN AND PERMIT NOTES**

- CONSTRUCTION ACTIVITIES THAT WOULD DISTURB AND PUBLIC ROAD REQUIRE PERMITS AND CONSTRUCTION TO TAKE PLACE IN STORAGE OR ROAD WITHOUT THE NECESSARY PERMITS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE THE NECESSARY MAPS TO AVOID EXISTING AND OTHER OBSTRUCTIONS TO STORAGE AND ROAD, AND TO OBTAIN NECESSARY PERMITS.
- IF PROJECT CHANGES REQUIRE NEW PERMITS, CONSULT WITH THE PERMITTING AGENCY (ENGINEER PRIOR TO CONSTRUCTION IN THESE AREAS). PROJECT CHANGES INCLUDE ANY DISTURBANCES OUTSIDE OF THE SPECIFIED LIMIT OF DISTURBANCE, EVEN ADDITIONAL ACCESS ROADS AND PIPE STORAGE TANKS USED FOR THIS PROJECT.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO CORROBORATE CROSSINGS & POSSIBLY RELOCATIONS.
- CONTRACTOR TO USE 8"X8" REDUCERS AND IF 12" AN 8" 22.5 BELOW IS TO BE USED ONLY FIRST 10' TO SHEET PILE THROUGH SEDIMENT TANK.
- ENVIRONMENTAL FEATURES SHOWN OUTSIDE OF STUDY AREA ARE APPROXIMATED FROM WV GOV AVAILABLE MAPPING & 2005 TOPOGRAPHIC MAPS.
- ALL CONVEY SYSTEMS 8" OR LARGER UNLESS OTHERWISE SPECIFIED.
- ALL PROPOSED ACTIVITIES TO BE STOPPED IF THE SEDIMENTATION.
- REFER TO SPECIFICATIONS FOR EQUIPMENT, MATERIALS AND CONSTRUCTION.
- PROPOSED BENCH, TRAP, AND APPURTENANCES SHALL BE INSTALLED PRIOR TO DRILLING AND COMPLETION OPERATIONS ON THE WELL PAD.
- NO DISCHARGE SHALL BE ALLOWED DURING DRILLING AND COMPLETION ACTIVITIES ON THE WELL PAD.
- ALL EXISTING GAS LINES TO BE CROSSED SHALL BE PROTECTED (SHIELDS, ETC.) AND SHALL BE CORROBORATED WITH UTILITY OWNER FOR EXISTING REQUIREMENTS.

**STOP - CALL BEFORE YOU DIG!**  
 Miss Utility of West Virginia  
 1-800-245-4848  
 TICKETS: 131743350 & 131743351

NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THIS PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE CORRECT LOCATIONS. THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DOES NOT RELY ON THE CONTRACTORS AND WILL BE PERFORMING EXCAVATIONS FROM COMPLYING WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS. SAID REQUIREMENTS CAN BE SATISFIED, IN PART, BY CONTACTING THE MARY AT 1-800-245-4848.

**XTO ENERGY**  
 810 HOUSTON STREET  
 FORT WORTH, TX 76102

GRAPHIC SCALE 1" = 50'

17018  
 STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 2/23/2015

**TRI-COUNTY ENGINEERING, LLC**  
 319 Partnersville Road  
 Hurricane, PA 15836  
 (724) 635-0210  
 www.tri-countyeng.com  
 Fax: (724) 635-0876

**SEDIMENT CONTROL PLAN**  
**ROCKWELL WELL PAD & ACCESS ROAD**

Drawn by: MFS  
 Date: 6/22/14  
 Scale: 1" = 30'  
 Lot #: 1205445

WASHINGTON DISTRICT  
 MARION COUNTY WEST VIRGINIA  
 File No.:  
 SHEET NO: XTO-0643-23.24.25

RECEIVED  
 Office of Oil and Gas  
 SEP 03 2015

WV Department of Environmental Protection

WRH  
 8-258-13



04902407

# SEDIMENT CONTROL PLAN FOR THE ROCKWELL WELL PAD & ACCESS ROAD EAGLE & MANNINGTON DISTRICTS HARRISON & MARION COUNTIES, WEST VIRGINIA



**SITE LOCATION MAP**  
SCALE 1" = 2000'

RECEIVED  
Office of Oil and Gas

SEP 03 2015  
WV Department of Environmental Protection

SOUTH AND NORTH  
WEST NORTH ZONE  
MAGNETIC



| DISTURBED ACREAGE             |             |                |
|-------------------------------|-------------|----------------|
| PROPERTY OWNER                | TAX I.D.    | DISTURBED AREA |
| FAHA MAY WEBB                 | 09-146-05   | 1.092 AC       |
| DAVID W WEBB                  | 09-146-05.2 | 2.200 AC       |
| GERALD L LUCAS                | 12-59-9.2   | 0.100 AC       |
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| JOHN G & RITA L HELDRETH      | 12-59-10    | 0.003 AC       |
| JANET NUTTER & BARBARA WAGNER | 12-59-10.5  | 0.800 AC       |
| JOHN G & RITA L HELDRETH      | 12-59-10    | 3.700 AC       |
| CRIM FAMILY LIVING TRUST      | 12-59-55    | 0.040 AC       |
| FAYE C ROCKWELL               | 12-59-09    | 1.400 AC       |
| FERRY L HUGHES                | 12-59-16    | 2.800 AC       |
| FAYE C ROCKWELL               | 12-59-08    | 9.400 AC       |
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| FAYE C ROCKWELL               | 12-59-24.1  | 0.600 AC       |
| DONALD E & JAMIE T RICHARDS   | 12-59-58    | 0.200 AC       |
| ALLEN H ROBINSON - ROAD       | 12-59-9.1   | 1.300 AC       |
| ALLEN H ROBINSON - PAD        | 12-59-9.1   | 5.400 AC       |
| PERRY L HUGHES - PAD          | 12-59-18    | 1.700 AC       |

| DRAWING INDEX         |                                     |              |
|-----------------------|-------------------------------------|--------------|
| PLAN                  | TITLE                               | SHEET NUMBER |
| SEDIMENT CONTROL PLAN |                                     |              |
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|                       | ACCESS ROAD TO ROCKWELL WELL PAD    | SHEET 3      |
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|                       | PAD LAYOUT (FRAC PHASE)             | SHEET 26     |
|                       | DETAILS                             | SHEET 27     |

**APPROVED**  
**WVDEP OOG**  
*[Signature]*  
7/21/2015

Rockwell 5H-API-47-049-02363

| REVISIONS |                  |         |     |
|-----------|------------------|---------|-----|
| NO.       | DESCRIPTION      | DATE    | BY  |
| 1         | WVDEP COMMENTS   | 1/22/15 | RAM |
| 2         | ROAD REALIGNMENT | 8/11/15 | RAM |

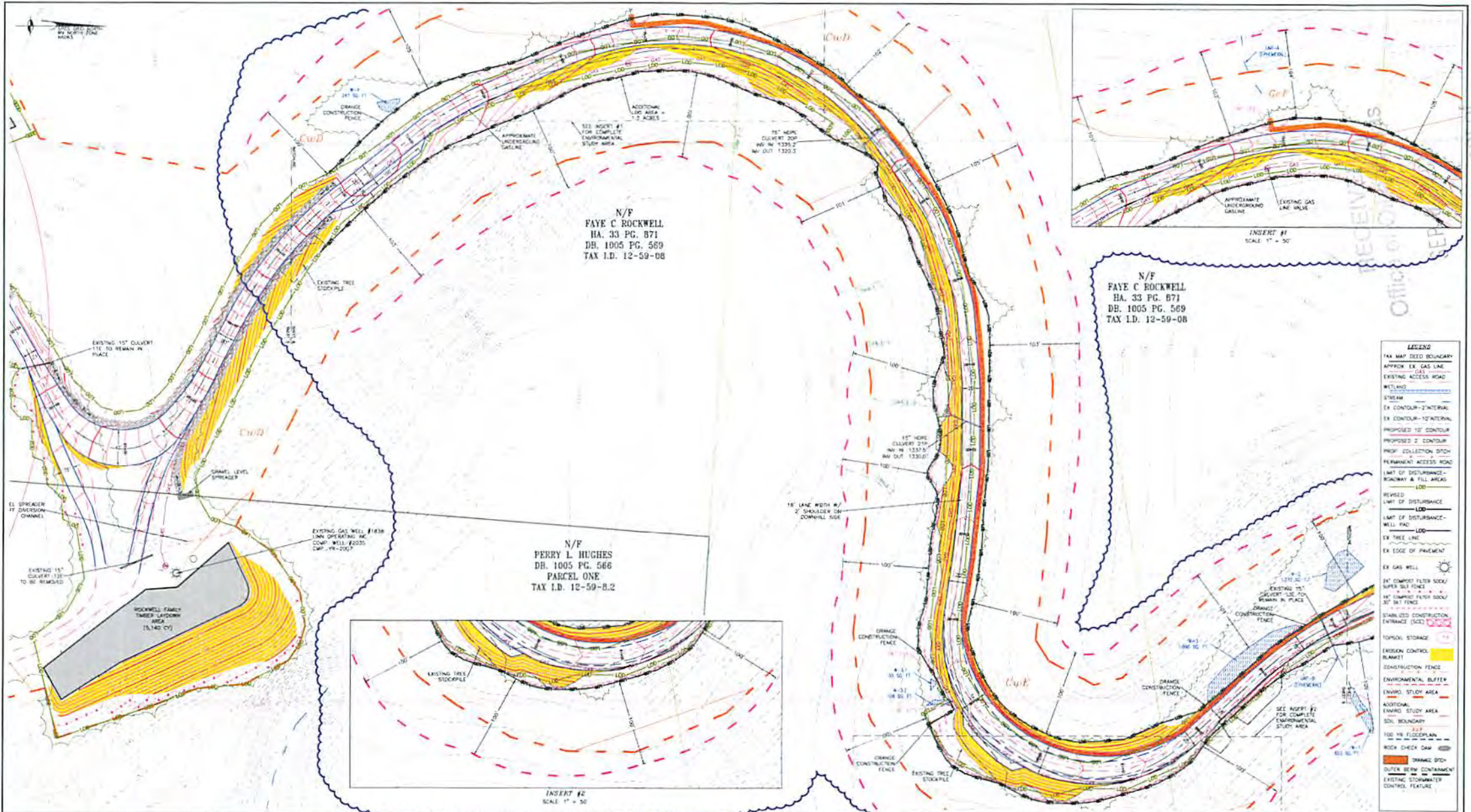
NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THIS PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE CORRECT LOCATIONS. THE DEPICTION OF UTILITIES HEREIN DOES NOT RELIEVE THE CONTRACTOR WHO WILL BE PERFORMING EXCAVATIONS FROM COMPLYING WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS. SAID REQUIREMENTS CAN BE SATISFIED, IN PART, BY CONTACTING THE WORK AT 1-800-241-8888.

0 1000 2000 3000  
SCALE 1" = 1000'

|  |  |   |   |
|--|--|---|---|
|  | <br>810 HOUSTON STREET<br>FORT WORTH, TX 76102 | <b>TRI-COUNTY ENGINEERING, LLC</b><br>219 Harrison Road<br>Huron, PA 15829<br>www.TriCountyEng.com<br>Phone: (724) 835-0210 Fax: (724) 835-0476 | <b>SEDIMENT CONTROL PLAN - COVER</b><br><b>ROCKWELL WELL PAD &amp; ACCESS ROADS</b><br>Date: TCE 8/22/14<br>Issue: AS NOTED<br>Draw: 1205445<br>SHEET 1 OF 27<br>XTO-0642-2324.25 |
|--|--|---|---|



04902407



WV Department of Environmental Protection  
 W.F.H  
 8-28-15

**REVISIONS**

| NO. | DESCRIPTION      | DATE    | BY  |
|-----|------------------|---------|-----|
| 1   | WVDEP COMMENTS   | 1/5/14  | AJC |
| 2   | WVDEP COMMENTS 2 | 2/23/15 | AJC |
| 3   | ROAD REALIGNMENT | 6/17/15 | SHW |

**APPROVED WVDEP OOG**  
7/21/2015

**NOTES**

**SEDIMENT CONTROL PLAN AND PERMIT NOTES**

- CONSTRUCTION ACTIVITIES THAT AFFECT STREAMS AND POND BASINS REQUIRE PERMITS. NO CONSTRUCTION IS TO TAKE PLACE IN STREAMS OR PONDS WITHOUT THE NECESSARY PERMITS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE THE NECESSARY METHODS TO MANAGE EROSION AND WATER SEDIMENTATION TO STREAMS AND WETLANDS, AND TO OFF-SITE UNAUTHORIZED AREAS.
- IF PROJECT CHANGES INCLUDE NEW PERMITS, CONSULT WITH THE PERMITTING/ENVIRONMENTAL ENGINEER PRIOR TO CONSTRUCTION IN THESE NEW AREAS. PROJECT CHANGES INCLUDE ANY LAND DISTURBANCE OUTSIDE OF THE DIRECTED LIMIT OF DISTURBANCE, ADDITIONAL ACCESS ROADS, WORKSPACE, AND STORAGE YARDS USED FOR THIS PROJECT.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO CORROBORATE AND POSSIBLY RELOCATING ENVIRONMENTAL FEATURES SHOWN OUTSIDE OF STUDY AREA ARE APPROVED. FROM AN USE AVAILABLE MAPPING & ASIS TOPOGRAPHIC MAPS.
- ALL COVERED MATERIALS BY 4-6" UNLESS OTHERWISE SPECIFIED.
- ALL PROPOSED ACTIVITY TO BE DONE OUT OF THE FLOODPLAIN.
- ALL EXISTING GAS LINES TO BE COVERED SHALL BE PROTECTED DURING ETC. & SHALL BE CORROBORATED WITH UTILITY COMPANIES FOR CROSSING REQUIREMENTS.
- SOME AREAS INDICATED AS CUP ONLY CONSIST OF REVERSEING THE TOPSOIL.

**STOP - CALL BEFORE YOU DIG**

Miss Utility of West Virginia  
 1-800-245-4848  
 TICKETS: 1317043350 & 1317043051

NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THIS PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE CORRECT LOCATIONS. THE DEPTH OF UTILITIES SHOWN DOES NOT RELIEVE THE CONTRACTOR(S) WHO WILL BE PERFORMING EXCAVATIONS FROM COMPLYING WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS. SAID REQUIREMENTS CAN BE SATISFIED BY HAVING THE WORK AT 1-800-245-4848.



**XTO ENERGY**  
 810 HOUSTON STREET  
 FORT WORTH, TX 76102  
 GRAPHIC SCALE 1" = 50'



**TRI-COUNTY ENGINEERING, LLC**  
 319 Poplarville Road  
 Haverhill, PA 15536  
 Phone: (724) 835-0210 Fax: (724) 835-0276  
 www.tri-countyeng.com

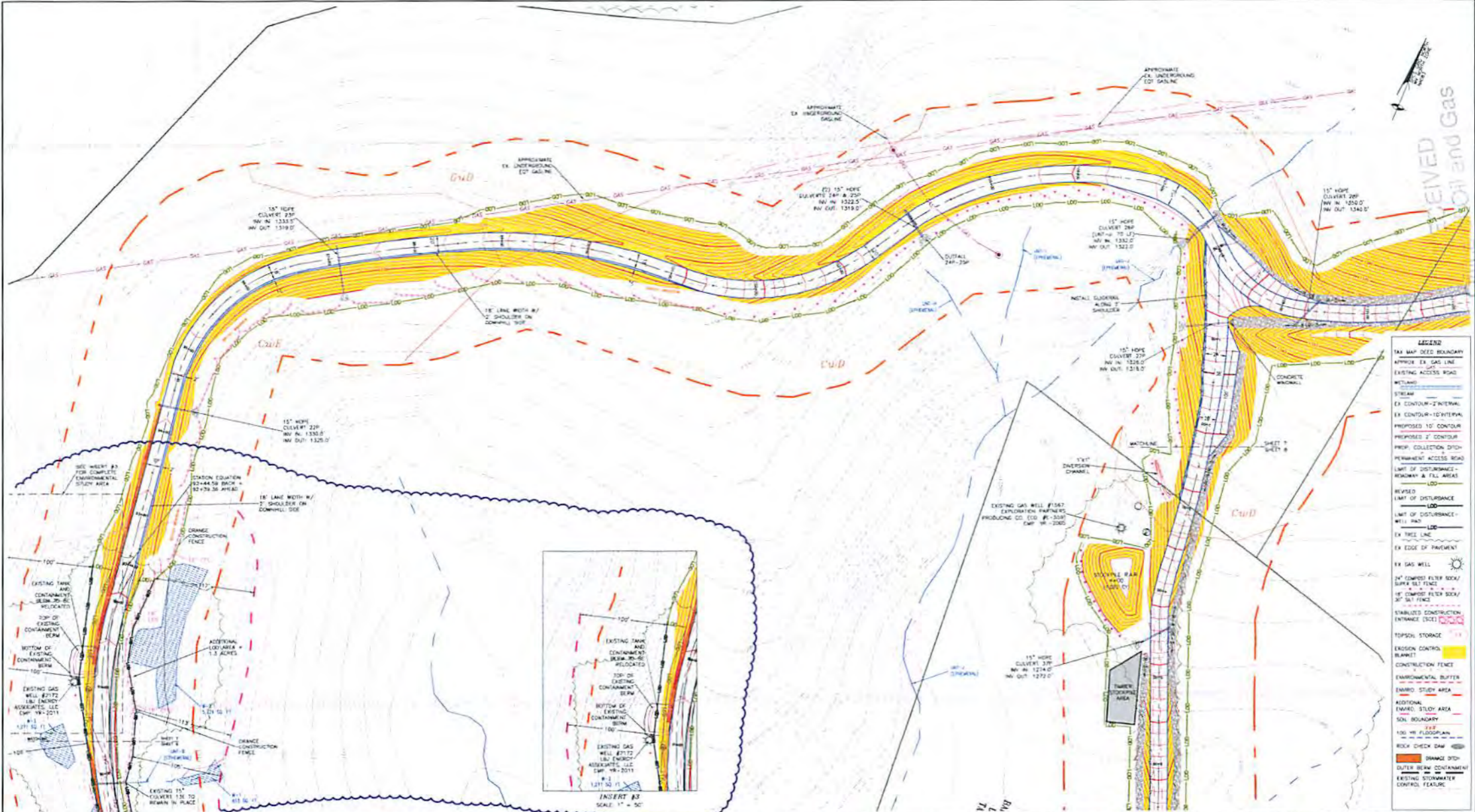
**SEDIMENT CONTROL PLAN**

**ACCESS ROAD TO ROCKWELL WELL PAD**

| NO. | DATE     | BY  |
|-----|----------|-----|
| 1   | 8/22/14  | SHW |
| 2   | 1" = 50' | SHW |
| 3   | 8/22/14  | SHW |
| 4   | 12/24/15 | SHW |



04902407



**REVISIONS**

| NO. | DESCRIPTION      | DATE    | BY  |
|-----|------------------|---------|-----|
| 1   | WVDEP COMMENTS   | 1/23/14 | AJC |
| 2   | WVDEP COMMENTS 2 | 2/23/15 | AJC |
| 3   | ROAD REALIGNMENT | 8/11/15 | DAW |

**APPROVED WVDEP OOG**  
7/21/2015

**NOTES**

**SEDIMENT CONTROL PLAN AND PERMIT NOTES:**

- CONSTRUCTION ACTIVITIES THAT AFFECT STREAMS AND PUBLIC BEACHS REQUIRES PERMITS AND CONSTRUCTION IS TO TAKE PLACE IN STREAMS OR BEACHS WITHIN THE NECESSARY PERMITS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE THE NECESSARY PERMITS TO MINIMIZE EROSION AND OTHER DEGRADATION TO STREAMS AND BEACHS AND TO OFF-SITE UNIMPROVED AREAS.
- IF PROJECT CHANGES REQUIRE NEW PERMITS, CONSULT WITH THE PERMITTING/ENVIRONMENTAL ENGINEER PRIOR TO CONSTRUCTION IN THESE AREAS. PROJECT CHANGES INCLUDE ANY LAND DISTURBANCE CHANGE IN THE DISTRICT LIMIT OF DISTURBANCE, ADDITIONAL HOLES, PILING, BRANCHING, AND STORAGE UNITS USED FOR THE PROJECT.
- CONTRACTOR TO CONTACT STATE COMPANIES TO DETERMINE EXISTING & PROPOSED RECORDINGS.
- UNSATURATED FEATURES SHOWN OUTSIDE OF STUDY AREA ARE APPROXIMATED FROM AN OLD AVAILABLE MAPPING & USED FOR GENERAL INFO.
- ALL CONVEYER DETAILS SHOWN WITH A 4" UNLESS OTHERWISE SPECIFIED.
- ALL PROPOSED ACTIVITY TO BE DONE OUT OF THE FLOODPLAIN.
- ALL EXISTING GAS LINES TO BE COVERED SHALL BE PROTECTED (DRAINAGE PILES) AND SHALL BE COORDINATED WITH UTILITY OWNER FOR INSTALLATION REQUIREMENTS.

**STOP - CALL BEFORE YOU DIG!**

Miss Utility of West Virginia  
1-800-245-4848  
TICKETS: 131743330 & 131743337

NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THIS PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREIN ARE THE CORRECT LOCATIONS. THE DEPTION OF UTILITIES HEREIN DOES NOT RELIEVE THE CONTRACTOR(S) WHO WILL BE PERFORMING EXCAVATIONS FROM COMPLYING WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS. SAID REQUIREMENTS CAN BE SATISFIED, IN PART, BY CONTACTING THE MURBY AT 1-800-245-4848



**XTO ENERGY**  
810 HOUSTON STREET  
FORT WORTH, TX 76102  
GRAPHIC SCALE 1" = 50'

**TRI-COUNTY ENGINEERING, LLC**  
319 Farmers Road  
Waco, TX 76783  
www.tri-countyeng.com

**SEDIMENT CONTROL PLAN**

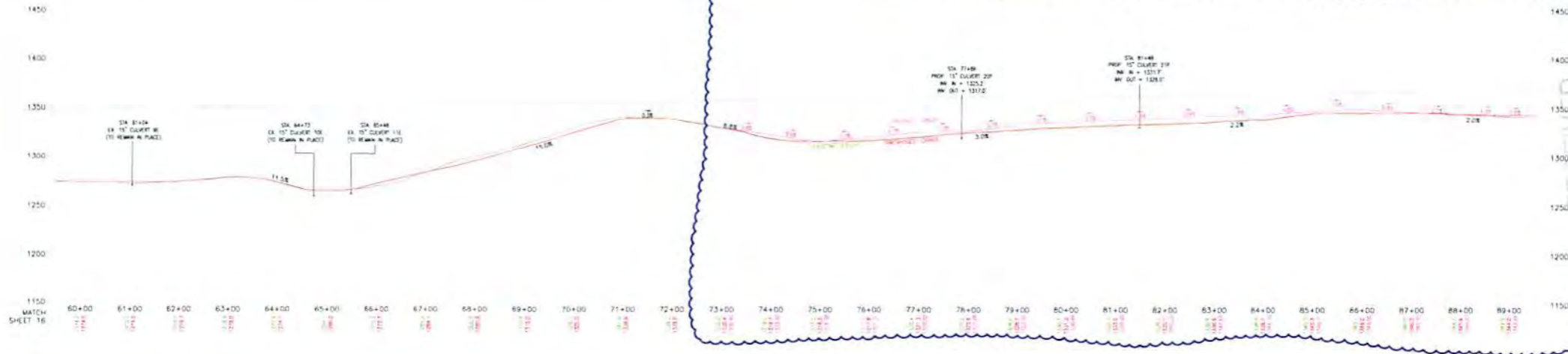
**ACCESS ROAD TO ROCKWELL WELL PAD**

|           |          |                              |
|-----------|----------|------------------------------|
| Drawn by: | Date:    | MANAGING DISTRICT:           |
| TCE       | 8/22/14  | MARION COUNTY, WEST VIRGINIA |
| Scale:    | 1" = 50' | File No.:                    |
| Job #:    | 1205445  | Sheet #:                     |
|           |          | XTO-0642-2324.25             |

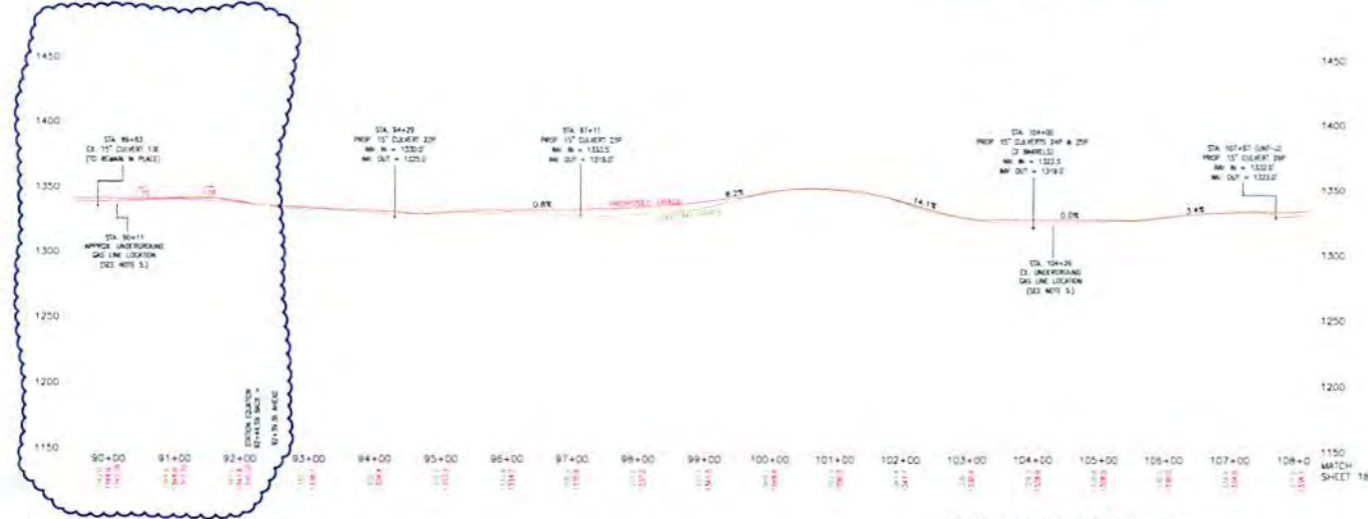
REVISED Oil and Gas  
SEP 03 2015  
WRH  
8-28-15  
WV Department of Transportation



04902407



ACCESS ROAD PROFILE STA. 59+50-89+50  
HORIZONTAL SCALE 1" = 100'  
VERTICAL SCALE 1" = 50'



ACCESS ROAD PROFILE STA. 89+50-119+50  
HORIZONTAL SCALE 1" = 100'  
VERTICAL SCALE 1" = 50'

REVISIONS

| NO. | DESCRIPTION      | DATE    | BY  |
|-----|------------------|---------|-----|
| 1   | ROAD REALIGNMENT | 6/11/15 | RAM |

**APPROVED**  
**WVDEP OOG**  
*[Signature]*  
7/21/2015

**SEDIMENT CONTROL PLAN AND PERMIT NOTICE**

- CONTRACTOR ADVISES THAT ALL CITY STREETS AND PUBLIC ROADS REQUIRE PERMITS. NO CONSTRUCTION IS TO TAKE PLACE IN STREAMS OR ROADS WITHOUT THE NECESSARY PERMITS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE THE NECESSARY MAPS TO AVOID EXISTING AND OTHER CONDUITS TO STREAMS AND WETLANDS, AND TO OBTAIN UNAUTHORIZED AGENCIES.
- IF PROJECT CHANGES REQUIRE NEW PERMITS, CONSULT WITH THE PERMITTING/ENVIRONMENTAL ENGINEER PRIOR TO CONSTRUCTION IN THESE AREAS. PROJECT CHANGES WILL BE APPROVED OUTSIDE OF THE SPECIFIED LIMIT OF DISTURBANCE, EVEN NEARBY ACCESS ROADS AND PUMP STATION YARDS USED FOR THIS PROJECT.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO COORDINATE CROSSINGS & POSSIBLY RELOCATIONS.
- FOR EXISTING GAS LINES / SOLID LINES AT ROAD CROSSINGS, THE EXISTING LINE HAS BEEN DEPICTED AS 3' BELOW EXISTING GRADE. HOWEVER THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

**STOP - CALL BEFORE YOU DIG!**  
Miss Utility of West Virginia  
**1-800-245-4848**  
TICKETS: 1510745300 & 1510745351



**XTO ENERGY**  
810 HOUSTON STREET  
FORT WORTH, TX 76102



TRJ-COUNTY ENGINEERING, LLC  
218 Parkersburg Road  
Harpers, WV 26030  
www.trjcountygeng.com

Phone: (724) 835-0210 Fax: (724) 835-0818

**SEDIMENT CONTROL PLAN**

**ACCESS ROAD PROFILES**

| Drawn By | Date    | Client                                    |
|----------|---------|---|
| A.G.     | 7/21/14 | MARION & HARRISON COUNTIES, WEST VIRGINIA |
| Scale    | Sheet   | File No.                                  |
| AS NOTED | SHT 12  | 870-0042-23.24.25                         |
| W.P.#    | 1207445 |   |

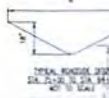
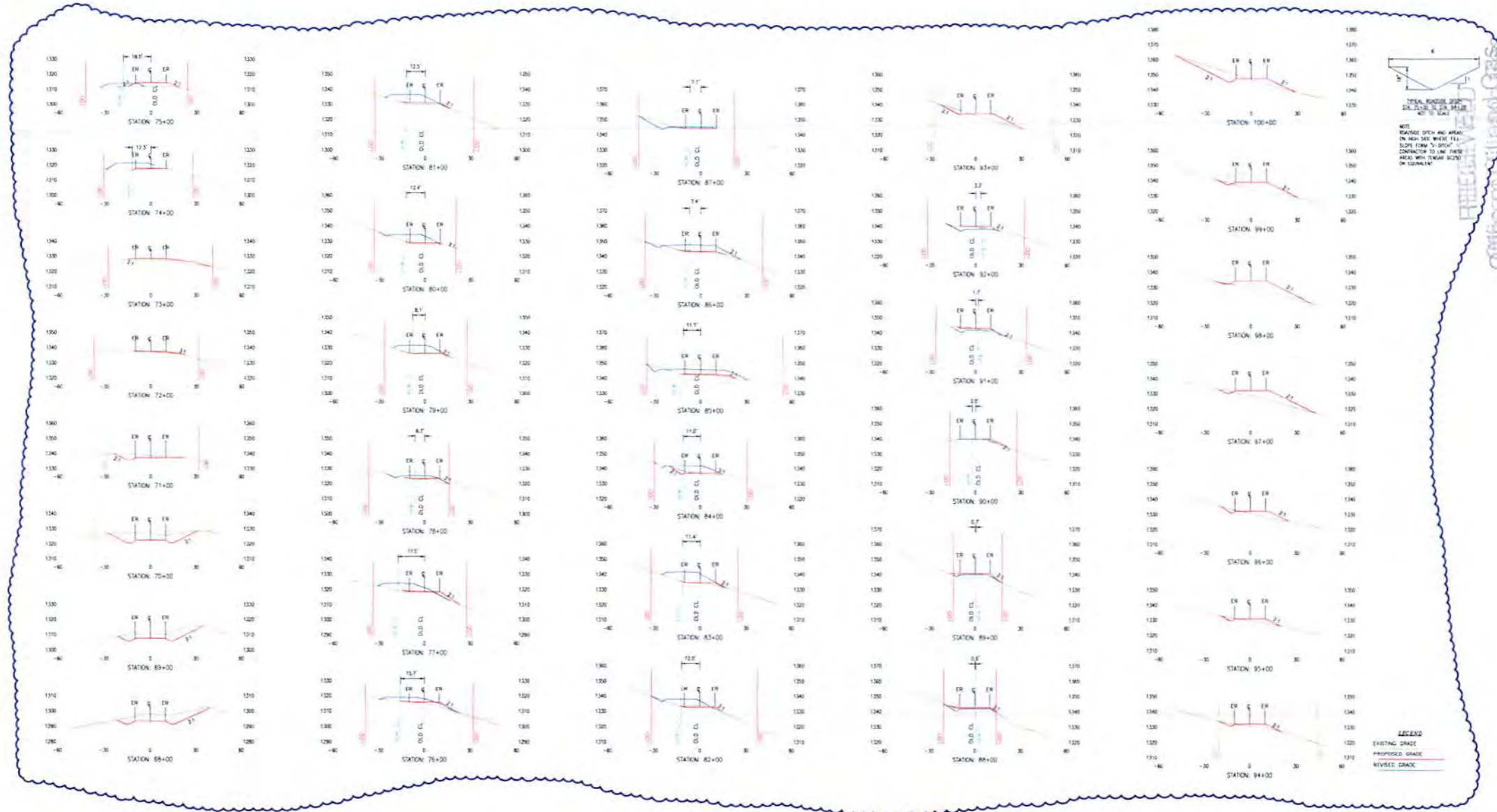
SEP 03 2015

Office of Conservation  
WV Department of Environmental Protection

*WRH*  
*8-28-15*

RECEIVED

04902407



NOTE: GRADE OVER AND AREA ON HIGH SEAS SHALL BE SLOPE FROM 2:1 TO 1:1. CONSTRUCTION TO LAW. THESE AREAS WITH TYPICAL SLOPE OR OTHERWISE.

**LEGEND**  
 EXISTING GRADE  
 PROPOSED GRADE  
 REVISED GRADE

| REVISIONS |                |         |     |
|-----------|----------------|---------|-----|
| NO.       | DESCRIPTION    | DATE    | BY  |
| 1         | ROAD ALIGNMENT | 8/11/15 | RAM |
|           |                |         |     |
|           |                |         |     |

**APPROVED**  
**WVDEP OOG**  
*[Signature]*  
 7/21/2015

STOP - CALL BEFORE YOU DIG!  
 Miss Utility of West Virginia  
 1-800-245-4848  
 TICKETS: 131704350 & 131704351

NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THIS PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREIN ARE THE CORRECT LOCATIONS. THE DEPARTMENT OF UTILITIES HEREIN DOES NOT RELIEVE THE CONTRACTOR(S) WHO WILL BE PERFORMING EXCAVATIONS FROM COMPLYING WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS. SAID REQUIREMENTS CAN BE SATISFIED IN PART BY CONTACTING THE NUMBER AT 1-800-245-4848.



**XTO ENERGY**  
 810 HOUSTON STREET  
 FORT WORTH, TX 76102

GRAPHIC SCALE 1" = 30'

**TRI-COUNTY ENGINEERING, LLC**  
 319 Fairview Road  
 Hurricane, PA 15239  
 Phone: (724) 835-0210  
 Fax: (724) 835-0678  
 www.tri-countyeng.com

| ACCESS ROAD CROSS SECTIONS |          |         |  |
|----------------------------|----------|---------|--|
| Sheet No.                  | TCE      | 4/30/15 |  |
| Scale                      | 1" = 30' |         |  |
| File No.                   | 1320445  |         |  |
|                            |          |         |  |

Office: 606-338-2205  
 FREIGHTWAY

SHEEP 0055/2/05

WV Department of Environmental Protection

WRM  
 8-28-15



