



west virginia department of environmental protection

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

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

November 06, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-4902410, 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: HACKETT 4H
Farm Name: CARDER, DON E.

API Well Number: 47-4902410

Permit Type: Horizontal 6A Well

Date Issued: 11/06/2015

Promoting a healthy environment.

11/06/2015

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

WW-6B
(04/15)

04902410
API NO. 47- _____ - _____
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearingen Pad

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

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

2) Operator's Well Number: Hackett 4H Well Pad Name: Swearingen Pad

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

4) Elevation, current ground: 1,374' Elevation, proposed post-construction: 1,376'

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 7,590', Anticipated Thickness: 150', Associated pressure: 4,650 psi

8) Proposed Total Vertical Depth: 7,590'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,000

11) Proposed Horizontal Leg Length: 6,581'

12) Approximate Fresh Water Strata Depths: 70', 600'

13) Method to Determine Fresh Water Depths: Offsetting Reports

14) Approximate Saltwater Depths: 680'

15) Approximate Coal Seam Depths: 600'

16) Approximate Depth to Possible Void (coal mine, karst, other): 600'

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

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

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WRH
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(04/15)

04902410

API NO. 47- _____
 OPERATOR WELL NO. Hackett 4H
 Well Pad Name: Swearingen 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	650	650	587
Coal							
Intermediate	9.625	New	J55	36	3,230	3,230	1,315
Production	5.5	New	J55	20	14,000	14,000	Lead 2,383/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	530	Standard	1.19
Coal							
Intermediate	9.625	12.25	0.352	3520	2630	Standard	1.19
Production	5.5	8.5	0.361	12640	6160	50-50 POZ /Class H Tail	1.13 / 1.18
Tubing							
Liners							

PACKERS

Kind:			
Sizes:			
Depths Set:			

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(10/14)

API NO. 47- 649 02410
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearingen 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 antiscale 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): 41.535+/-

22) Area to be disturbed for well pad only, less access road (acres): 7.6+/-

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 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.

*Note: Attach additional sheets as needed.

04902410

Hackett 4H – Mine Void Encounter Plan

Per communications with the WV Geology and Economic Survey there is a possible mine void in the Pittsburgh Coal seam under the Swearingen Pad in Marion County, WV. In preparation for drilling through a mine void, we will nipple up an annular preventer to be able to handle any flow should the void actually be encountered. We expect it to come in around 600' 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.

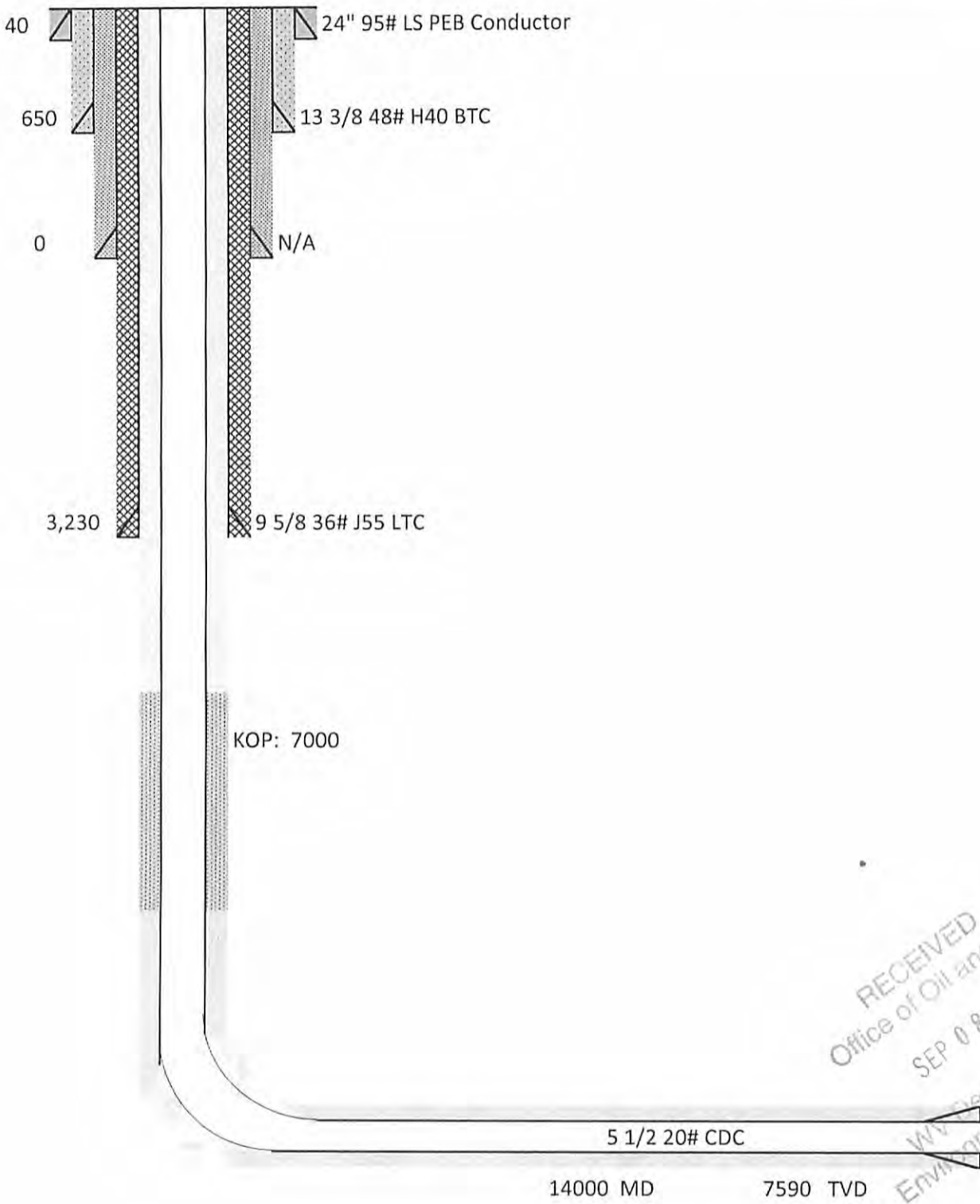
Once cemented in place, we will continue on with our normal casing design, which would be to set 9 5/8" intermediate casing at ~3230'.

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

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Hackett 4H
Marion County, West Virginia



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WW-9
(2/15)

04902410

API Number 47 - _____ - _____
Operator's Well No. Hackett 4H

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, 4708509721, 3416729577, 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 verti-g mud.

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

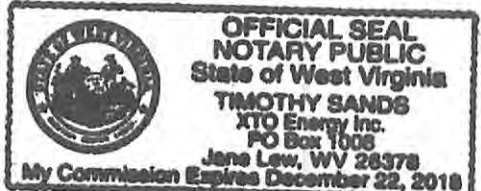
Company Official Title Production Superintendent

Subscribed and sworn before me this 27th day of August, 20 15

[Signature] Notary Public

My commission expires 12/22/18

11/06/2015



04902410

Form WW-9

Operator's Well No. Hackett 4H

XTO Energy Inc.

Proposed Revegetation Treatment: Acres Disturbed 41.535+/- 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

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 Hendrich*

Comments: _____

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Title: ENVIRONMENTAL INSPECTOR Date: 8-28-15

Field Reviewed? () Yes () No

11/06/2015

Site Safety Plan Table of Contents

For H6A Well Work Permits and Deep Well Work Permits

Please prepare a Site Safety Plan to accompany each applicable H6A and/or Deep well work permit, adhering to the following organizational and informational structure. Plans submitted must contain an index of the content entirety including page-number references.

1. Contacts, Schedules, and Meetings

- A. Emergency point of contact for the well operator covering all phases of activities and including 24 hour contact information (35-8 5.7.b.4)
- B. List of telephone numbers for (35-8 5.6.4):
 - 1) Operator
 - 2) Contractors
 - 3) DEP office and oil/gas inspector
 - 4) Local emergency response units
 - 5) Local ER personnel
 - 6) All schools and public facilities within a one mile radius of proposed well site (35-8 5.7.b.5)
- C. Method of notification of public of H₂S gas presence and how access will be controlled. (applicable horizontal wells include all residents and emergency response personnel who may be affected by an event. Such events may include the presence of H₂S, blow-outs, and flaring) (35-8 5.7.f.1)
- D. Pre-spud meeting held prior to drilling operations, including (35-8 5.7.h):
 - 1) Attendance log, including personnel to be employed and involved in drilling operations
 - 2) Notification of County oil and gas inspector or other designated Office of Oil and Gas representative
- E. Describe schedule for conducting regular well site safety meetings. Log attendance at all meetings and also initiate check in check out during drilling, completion, and workover phases. (35-8 5.7.h)

2. Maps and Diagrams

- A. Plan view map of location, access road, pit(s), flare lines, nearby dwellings, note the north direction and the prevailing wind direction (35-8 5.7.b.1)
- B. Topographic map of well location, including
 - 1) 1 mile radius of well location
 - 2) UTM NAD 83 coordinates of well site entrance (35-8 5.7.b.2)
 - 3) UTM NAD 83 coordinates of the point the access road intersects the public route (35-8 5.7.b.2)
 - 4) Identify public route number and/or route name (35-8 5.7.b.2)
- C. Evacuation plan for the removal of personnel from the drilling location and residents in the surrounding area who have the potential to be affected by an emergency. (35-8 5.7.b.3)

3. Well Work

- A. Detailed written descriptions of well work and procedure to be used during the drilling, completion, and production phases, including schematic plan views of each (35-8 5.7.a)
- B. Statement detailing how a copy of the plan will be provided to the local emergency planning committee or county emergency services office within at least 7 days from land disturbance or well work. (35-8 5.7.a)

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4. Chemical Inventory & MSDS

- A. Material Safety Data Sheets for all chemicals anticipated to be used in all aspects of the operation (can be provided on CD or USB drive) (35-8 5.7.a)
- B. Statement that all MSDS are to be readily available at the well site and their location indicated in the site safety plan including contact information for person(s) responsible maintaining them on site. (35-8 5.7.g)
- C. Inventory of all materials on site for mixing of mud including numbers and type of mixing units - mixed mud amount and weight, amount of weighting material and volume of mixing fluid. (35-8 5.7.d.1 & 5.7.d.2)

5. BOP and Well Control

- A. BOP equipment and casing heads with types, sizes and ratings to be utilized and available during the drilling for both intermediate and lateral drilling phases (35-8 5.7.c.1 & 5.7.c.8)
- B. Procedure and schedule for testing the BOP stack for intermediate drilling phase the BOP tested upon initial set up and the annular tested to 70% of capacity and the ram preventers tested to 80%. Same testing % for bottom and horizontal phase except testing to be done upon initial installation, weekly and after each bit trip (35-8 5.7.c.2)
- C. BOP equipment and assembly installation schedule (35-8 5.7.c.3)
- D. List and names of all personnel with well control training (35-8 5.7.c.4)
- E. Description of system of maintaining detailed records of and for immediate notification to OOG inspector for all significant drilling issues, including but not limited to (35-8 5.7.c.5):
 - 1) Lost circulation
 - 2) Hydrogen sulfide gas
 - 3) Fluid entry
 - 4) Abnormal pressures
- F. Notification of the oil and gas inspector or designated representative as soon as possible of any unusual drilling events, hydrogen sulfide gas* or large kicks that occur during drilling operations).
*(Mandatory immediate notification is required of any encounter of hydrogen sulfide gas - 22-6A wells >10ppm H₂S Gasses!) (35-8 5.7.c.5)
- G. Schematic and detailed written description of the wellhead assembly to be placed on the well upon completion (35-8 5.7.c.6)
- H. Method and type of kill procedures as recognized by the IADC – Wild Well Control Kill Sheet (35-8 5.7.d.3)

6. Hydrogen Sulfide (H₂S)

- A. Detection, monitoring and warning equipment including location of the monitoring detection equipment on the site (35-8 5.7.e.1)
- B. Statement of H₂S personnel training provided (35-8 5.7.e.2)
- C. Method to notify the OOG of H₂S presence (35-8 5.7.e.4)
- D. Establish and maintain Protection Zones. Describe detailed written general procedures proposed in drilling phases. (application horizontal wells must include the completion, work-over, and production phases) (35-8 5.7.f.2)
- E. List of personal protective equipment (PPE) and the amount of each piece of PPE that will be maintained and available on site. (35-8 5.7.e.3)

7. Flaring

- A. Proposed written description and plan including schematic of installation for duration of flaring activities. (35-8 5.7.f.1)

8. Collision Avoidance Safeguards, Practices and Standards Plans

Protocol and established safeguards designed to prevent underground collisions during any drilling on multi-well pads (35-8 5.7). Collision avoidance plans are measures in keeping wellbores separated and in preventing HSE risk. Such plans describe the survey accuracy and the survey maintenance by systematic management efforts throughout the drilling of the proposed wellbore. These plans submitted shall be well specific to the proposed wellbore and shall address all items within the components section as outlined below. The scope of these plans shall provide survey designs throughout the proposed wellbore including the QC / QA activities and the counter-actions necessary; minimum separation factors (SF), standards and thresholds apply as specified in the components section. These plans shall include proposed counter-actions necessary if a collision occurs or if surveys observe an imminent risk for a collision; all wellbore collisions shall be treated as high-risk events. Approved plans are conditions and terms of the well permit and any modifications are subject to approval by the Office of Oil and Gas (OOG).

A. Established definitions:

- 1) Proposed Wellbore – Involves sections of the vertical top-hole, the KOP, the lateral landing, and the lateral drilling to the total measured depth TMD.
- 2) Nudge – Technique generally used in the vertical top-hole section. The well path is nudged from vertical to pass areas of possible magnetic interferences and to reduce the risk of collision by maintaining separation with other wellbores.
- 3) KOP – Kick off Point. Diverting a well path from one trajectory to another.
- 4) MWD – Measurement While Drilling.
- 5) LWD – Logging While Drilling.
- 6) SF – Separation Factor or Clearance Factor:

$$SF^* = CC \div [UR_{ref} + UR_{off}]$$

CC - well separation distance (center to center of wellbores)

UR_{ref} - radius ellipse of uncertainty on reference well

UR_{off} - radius ellipse of uncertainty on offset well

Note: ellipses are half-axes or radii.

*Calculation options may be considered

- 7) TMD – Total Measured Depth.
- 8) Gyro – High accuracy well bore survey instrument unaffected by magnetic interference.
- 9) QC / QA – Quality Control and Quality Assurance.
- 10) HSE – Health Safety and the Environment.

B. Established descriptions of risk:

- | | | |
|--------------------|---------|--------------------------|
| 1) SF ≤ 1.0 | Level 1 | Extreme collision risk |
| 2) SF = 1.0 to 1.5 | Level 2 | High collision risk |
| 3) SF = 1.5 to 2.0 | Level 3 | Moderate collision risk |
| 4) SF > 2.0 | Level 4 | Low to no collision risk |

C. Plan components:

- 1) Describe the scope of work and the type of survey techniques by use of gyros, MWD, LWD, or others and include the following:
 - a) The survey intervals or frequencies proposed as adjustments to address each level of risk covering the vertical top-hole section of the proposed wellbore.

- b) Provide TOOL ALIGNMENT and MULESHOE procedures** when drilling in critical areas covering the vertical top-hole section of the proposed wellbore. These procedures are visual verification for alignment and orientation QC/QA purposes. Provide the responsible personnel (minimum two representatives) and their titles of those involved for QC/QA purposes during the drilling activities.
**Provide other orientations or survey methods and procedures if utilized.
 - c) Description of any nudge activity proposed in the vertical top-hole section.
 - d) The survey tools to be utilized from the KOP to the lateral landing and the lateral section to the TMD.
 - e) Description of any software utilized for the directional and anti-collision planning proposed.
- 2) The following shall be addressed in the plan for the proposed wellbore:
- a) Vertical top-hole section beginning at the surface and to the lateral landing -
 - i) Minimum SF standards (thresholds) required -
SF \geq 1.5 shall be obtained early as practical and maintained.
(Indicate the frequency of survey intervals proposed)
 - ii) Minimum SF standards (thresholds) required -
SF \geq 2.0*** applies when in proximity to any fractured or any producing well that exists on the well pad.
(Indicate the frequency of survey intervals proposed)
***Risk management and technological mitigations, i.e. downhole plugs, are critical and should be considered along with other safety measures necessary. The OOG may require additional safety measures of a specific well application for permitting as deemed necessary.
 - b) Lateral section beginning at the lateral landing and to the TMD -
 - i) Provide a general protocol to declination, grid correction, and magnetic interference correction during the drilling of the proposed lateral. Also provide the responsible personnel (minimum two representatives) and their titles of those involved for QC/QA purposes during the drilling activities.
 - ii) For any existing horizontal or vertical wells found adjacent to this lateral section, provide the protocols for separation safeguards and the spacing planned during the drilling of this section. A reconnaissance review is required for each proposed lateral; OOG may establish a minimum footage for review as deemed necessary.
- 3) Provide a well pad surface diagram depicting the wellhead arrangement (API labeled) of all existing wells adjacent to the proposed wellbore. Indicate the surface footage separation between wellheads and each wellbore status.
- 4) Describe the gyro surveying or other type surveying conducted within each existing wellbore located on the pad.
- 5) Provide descriptive actions if a collision should occur or if surveys should observe imminent risk for a collision.
- 6) Provide method to notify the OOG Oil and Gas Inspector immediately of any underground collision or if the SF Level 1 is determined within the extreme collision risk zone (ellipses of uncertainty overlap).
- 7) Provide other supportive resources or proposed safety measures as needed.

9. Deep Well Additional Requirements

- A. List of anticipated freshwater, saltwater, oil and gas, hydrogen sulfide, thief zones, high pressure and volume zones and their expected depths.

Revised (3/15)

- B. Detailed casing and cementing program that employs a minimum of three strings of casing which are sufficient weight and quality for the anticipated conditions.
- C. Flaring activities: Size, construction and length of flare line-anchor method and choke assembly description, Flare lighting system and back up igniters, Notify local fire department (if possible) prior to igniting flares, Minimum clearing distance beyond end of flare.
- D. List of names, addresses, and telephone numbers of all residents, businesses, churches, schools and emergency facilities within 1 mile radius that may be affected by specific events during the drilling process. Such events may include presence of hydrogen sulfide, and flaring, etc.

10. Deep Vertical Well Requirements per Policy Statement (Deep Well Drilling Procedures and Site Safety Plan Requirements)

The following selections are needed from the above contents:

- 1. A - E (E. drilling phase only)
- 2. A - C
- 3. A (drilling phase only)
- 4. B - C
- 5. A - H
- 6. A - E
- 9. A - D.

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XTO Energy Inc.
Well Site Safety Plan

04902410

Hackett 4H
Swearingen Pad

39.463754
-80.353989

320 Hawks Nest Rd.
Mannington, WV 26582

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WW-6A1
(5/13)

Operator's Well No. Hackett 4H

**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	Don E. Carder & Johannah Carder et al	Trio Petroleum Corp.	1/8	966/411
2	Allen F. & Shirley A. Cole et al	XTO Energy Inc.	1/8	1104/684
3	Allen F. & Shirley A. Cole et al	XTO Energy Inc.	1/8	1104/687
4	Mary & Roger Drain et al	XTO Energy Inc.	1/8	1106/125
5	Douglas S. Dolfie et al	XTO Energy Inc.	1/8	1130/407

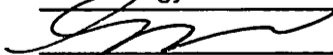
see attached

**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

Hackett 4H

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Lease #	Deed Book/Page	Lessor	Lessee
1	966/411	Don E. Carder and Johannah Carder	Trio Petroleum Corp. Trio merged into Waco Holding at 56-879, merged to Waco Oil and Gas at 56-889; Waco to XTO at 45-587.
	939/281	Douglas E. Swearingen and Leann Swearingen, his wife	Trio Petroleum Corp. Trio merged into Waco Holding at 56-879, merged to Waco Oil and Gas at 56-889; Waco to XTO at 45-587.
2	1104/684	Allen F. Cole and Shirley A. Cole	XTO Energy Inc.
	1108/456	Bernard C. Cole	XTO Energy Inc.
	1106/143	Brenda J. Messenger and Virgil L. Messenger	XTO Energy Inc.
	1105/389	Clarilynne B. Salai	XTO Energy Inc.
	1104/92	Donald G. Cunningham and Allen R. Cunningham	XTO Energy Inc.
	1105/374	Edna L. Kaase	XTO Energy Inc.
	1106/392	Ethel D. Dye	XTO Energy Inc.
	1106/80	Gary L. Taylor	XTO Energy Inc.
	1109/433	Joseph H. Fisher and Kari J. Fisher	XTO Energy Inc.
	1104/723	Lila G. McFann and William S. McFann	XTO Energy Inc.
	1106/459	Lynn R. Schoonmaker and Carol Schoonmaker	XTO Energy Inc.
	1106/110	Marjorie W. Cole	XTO Energy Inc.
	1104/711	Roger D. Deberry	XTO Energy Inc.
	1106/95	Sherilyn Jean Griffin and William Perry Griffin	XTO Energy Inc.
	1110/151	Victoria N. Musick and Gerald W. Musick	XTO Energy Inc.
	1157/764	John R. Berry and Cynthia L. Berry	XTO Energy Inc.
	1122/576	Donald Dye	XTO Energy Inc.
	1122/529	Grace Etta Black	XTO Energy Inc.
1122/559	Jeremy J. Cunningham	XTO Energy Inc.	
1122/544	Cara Dickerson	XTO Energy Inc.	
3	1104/687	Allen F. Cole and Shirley A. Cole	XTO Energy Inc.
	1108/459	Stephanie F. Cole Jacobs	XTO Energy Inc.
	1106/140	Constance B. Waldron	XTO Energy Inc.
	1105/386	Brenda J. Messenger and Virgil L. Messenger	XTO Energy Inc.
	1104/95	Clarilynne B. Salai	XTO Energy Inc.
	1105/371	Allen R. Cunningham, widow	XTO Energy Inc.
	1106/389	Edna L. Kaase	XTO Energy Inc.
	1106/83	Ethel D. Dye	XTO Energy Inc.
	1109/436	Gary L. Taylor	XTO Energy Inc.
	1104/720	Joseph H. Fisher and Kari J. Fisher	XTO Energy Inc.
	1106/456	Lila G. McFann and William S. McFann	XTO Energy Inc.
	1106/113	Lynn R. Schoonmaker and Carol Schoonmaker	XTO Energy Inc.
	1104/708	Marjorie W. Cole	XTO Energy Inc.
	1106/98	Roger D. Deberry	XTO Energy Inc.
	1110/154	Sherilyn Jean Griffin and William Perry Griffin	XTO Energy Inc.
	1157/764	Victoria N. Musick and Gerald W. Musick	XTO Energy Inc.
	1122/573	John R. Berry and Cynthia L. Berry	XTO Energy Inc.
	1122/526	Donald Dye	XTO Energy Inc.
1122/556	Grace Etta Black	XTO Energy Inc.	
1122/541	Jeremy J. Cunningham	XTO Energy Inc.	
1165/97	Cara Dickerson	XTO Energy Inc.	
4	1106/125	Mary and Roger Drain	XTO Energy Inc.
	1104/693	Allen F. Cole and Shirley A. Cole	XTO Energy Inc.
	1108/465	Bernard C. Cole	XTO Energy Inc.
	1106/134	Brenda J. Messenger and Virgil L. Messenger	XTO Energy Inc.
	1105/380	Clarilynne B. Salai	XTO Energy Inc.
	1104/101	Donald G. Cunningham and Allen R. Cunningham	XTO Energy Inc.
	1105/365	Edna L. Kaase	XTO Energy Inc.
	1106/395	Ethel D. Dye	XTO Energy Inc.
	1106/89	Gary L. Taylor	XTO Energy Inc.
	1109/442	Joseph H. Fisher and Kari J. Fisher	XTO Energy Inc.
	1104/714	Lila G. McFann and William S. McFann	XTO Energy Inc.
	1106/450	Lynn R. Schoonmaker and Carol Schoonmaker	XTO Energy Inc.
	1106/119	Marjorie W. Cole	XTO Energy Inc.
	1104/702	Roger D. Deberry	XTO Energy Inc.
	1106/104	Sherilyn Jean Griffin and William Perry Griffin	XTO Energy Inc.
	1110/160	Victoria N. Musick and Gerald W. Musick	XTO Energy Inc.
	1157/764	John R. Berry and Cynthia L. Berry	XTO Energy Inc.
	1122/567	Donald Dye	XTO Energy Inc.
1122/520	Grace Etta Black	XTO Energy Inc.	
1122/550	Jeremy J. Cunningham	XTO Energy Inc.	
1122/535	Cara Dickerson	XTO Energy Inc.	
5	1130/407	Douglas Sebbald Dolfie (female)	XTO Energy Inc.
	1134/804	Ann Woodling Knotts Harris	XTO Energy Inc.
	1136/840	Trustees of Revoc Trust for Elizabeth Jane Knotts Merriam	XTO Energy Inc.
	1131/844	Citizens National Bank of Elkins/Trustee for Living Trust for Harriett E. Martin Shaw	XTO Energy Inc.
	941/472	Jo Ellen Faulds	Exploration Partners, LLC, assigned to XTO 33/200
	941/490	Lola J. Bolt	Exploration Partners, LLC, assigned to XTO 33/200
	941/1046	Shannon Cameron	Exploration Partners, LLC, assigned to XTO 33/200
	941/1046	Laura Lynn Sousa	Exploration Partners, LLC, assigned to XTO 33/200
	941/1046	Tamela Garner	Exploration Partners, LLC, assigned to XTO 33/200
	944/159	Berlin E. Snyder, III	Exploration Partners, LLC, assigned to XTO 33/200
	944/159	Jon H. Snyder	Exploration Partners, LLC, assigned to XTO 33/200
	944/159	Mary Beth Mentzer	Exploration Partners, LLC, assigned to XTO 33/200

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6	1100/70	Mary Drain and Roger Drain	XTO Energy Inc.
	1121/6	Pearl A. Drain	XTO Energy Inc.
	1159/24	Norman Ottman Ashcraft	XTO Energy Inc.
	1166/488	Allen F. Cole and Shirley A. Cole	XTO Energy Inc.
	1168/322	Stephanie F. Cole Jacobs	XTO Energy Inc.
	1172/294	Constance B. Waldron	XTO Energy Inc.
	1168/326	Brenda J. Messenger and Virgil L. Messenger	XTO Energy Inc.
	1166/525	Clarilynne B. Salai	XTO Energy Inc.
	1168/341	Allen R. Cunningham, widow	XTO Energy Inc.
	1166/521	Edna L. Kaase	XTO Energy Inc.
	1166/451	Ethel D. Dye	XTO Energy Inc.
	1174/410	Joseph H. Fisher and Kari J. Fisher	XTO Energy Inc.
	1167/626	Lila G. McFann and William S. McFann	XTO Energy Inc.
	1174/915	Lynn R. Schoonmaker and Carol Schoonmaker	XTO Energy Inc.
	1172/926	Marjorie W. Cole	XTO Energy Inc.
	1165/467	Roger D. Deberry	XTO Energy Inc.
	1167/367	Sherilyn Jean Griffin and William Perry Griffin	XTO Energy Inc.
	1171/441	Victoria N. Musick and Gerald W. Musick	XTO Energy Inc.
	1157/764	John R. Berry and Cynthia L. Berry	XTO Energy Inc.
	1165/471	Donald Dye	XTO Energy Inc.
1168/364	Grace Etta Black	XTO Energy Inc.	
1165/93	Jeremy J. Cunningham	XTO Energy Inc.	
1165/97	Cara Dickerson	XTO Energy Inc.	

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7	1123/64	Madonna Lee Matheny	XTO Energy Inc.
	1128/32	David E. Matheny	XTO Energy Inc.
	1127/801	Patty Sue Davis	XTO Energy Inc.
	1127/807	Martha Anne McConnell	XTO Energy Inc.
	1132/233	Mark Alan Matheny	XTO Energy Inc.
	1128/142	Eric Lynn Matheny	XTO Energy Inc.
	1125/466	Barbara JoAnn Wagner	XTO Energy Inc.
	1125/463	Janet Sue Nutter	XTO Energy Inc.
	1151/486	Richard K. Robinson	XTO Energy Inc.
	1126/211	Edward Lee Robinson	XTO Energy Inc.
	1123/46	Hester J. Long	XTO Energy Inc.
	1123/722	Shirley Reese	XTO Energy Inc.
	1123/515	John G. Heldreth	XTO Energy Inc.
	1123/518	David L. Heldreth	XTO Energy Inc.
	1123/52	Carrie Morgan	XTO Energy Inc.
	1123/49	Cathern Martin	XTO Energy Inc.
	1125/469	Avis H. Wallace	XTO Energy Inc.
	1151/117	Debra Gibson	XTO Energy Inc.
	1151/31	Laura Schoch	XTO Energy Inc.
	1151/28	Carrie Mae King	XTO Energy Inc.
	968/776	Estate of Louis A. Ferrari	Exploration Partners, LLC, assigned to XTO 33/200
	968/776	Bradley W. Thomas	Exploration Partners, LLC, assigned to XTO 33/200
	968/776	Jake Ford	Exploration Partners, LLC, assigned to XTO 33/200
	968/776	Virginia Explorations, Inc	Exploration Partners, LLC, assigned to XTO 33/200
	968/776	Robert R. Andrews, Jr.	Exploration Partners, LLC, assigned to XTO 33/200

8	968/776	Estate of Louis A. Ferrari	Exploration Partners, LLC, assigned to XTO 33/200
	1083/28	Bradley W. Thomas	XTO Energy Inc.
	946/774	Jake Ford	Exploration Partners, LLC, assigned to XTO 33/200
	1083/16	Jacob Ford	XTO Energy Inc.
	1083/19	Virginia Explorations, Inc	XTO Energy Inc.
	1083/34	Robert R. Andrews, Jr.	XTO Energy Inc.
	946/774	Thomas Dingleline	Exploration Partners, LLC, assigned to XTO 33/200
	946/774	Robert F. Horner	Exploration Partners, LLC, assigned to XTO 33/200
	948/150	Anne Meredith	Exploration Partners, LLC, assigned to XTO 33/200
	968/776	Donna Caldwell	Exploration Partners, LLC, assigned to XTO 33/200

9	953/807	Delbert Stalnaker and Dorothy Stalnaker	Exploration Partners, LLC, assigned to XTO 33/200
	954/517	Terry Thomas and Rebecca Thomas	Exploration Partners, LLC, assigned to XTO 33/200

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LANDMAN STATEMENT

August 19, 2015

Re: State of West Virginia ownership of minerals under Hawks Nest Road and Flaggy Meadows Road, Marion County, West Virginia

The undersigned, Fred C. Lancaster did investigate any claims Marion County, West Virginia or the State of West Virginia might have to the minerals underlying Hawks Nest Road and Flaggy Meadows Road, in Marion County, West Virginia.

I contacted the County Clerk's Office to determine which agency in the County or the State could advise me on the status of ownership of the above mentioned roads. I was referred to the West Virginia Department of Highways District office in Bridgeport, West Virginia. I made contact with that office and they referred me to the Legal Division at 301 558-2823.

I made contact with the Legal Division and spoke with Brenda Craig-Ellis. She said the only way for her to determine any claims the State might have to the minerals underlying the roads was to provide her with deeds of the road to the State.

I researched all of the abstracts and subsequent title opinions prepared for the various tracts in the Hackett Unit in which the road traverses. I was unable to locate any deeds conveying any interest regarding the above referenced roads.

Therefore, based on my research, it is my opinion that neither Marion County nor the State of West Virginia claim any rights to the minerals underlying Hawks Nest Road and Flaggy Meadows Road within the proposed boundary lines of the Hackett Unit.


Fred C. Lancaster, Petroleum Landman

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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

04902410

API No. 47- _____
Operator's Well No. Hackett 4H
Well Pad Name: Swearingen 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>555568</u>
County:	<u>Marion</u>		Northing:	<u>4368428</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>Don Carder</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.

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: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <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 <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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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.

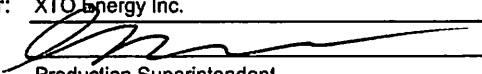
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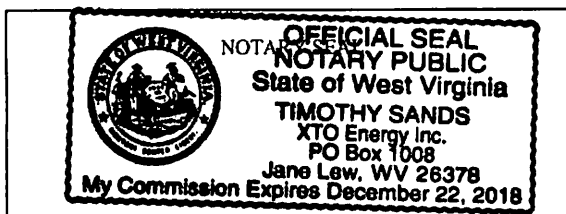
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(1/12)

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: <u>XTO Energy Inc.</u>	Address: <u>PO Box 1008</u>
By: <u></u>	<u>Jane Lew, WV 26378</u>
Its: <u>Production Superintendent</u>	Facsimile: <u>304-884-6809</u>
Telephone: <u>304-884-6000</u>	Email: _____



Subscribed and sworn before me this 31 day of August 2015.

oia

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.

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West Virginia Department of Environmental Protection

04902410

WW-6A
(9-13)

API NO. 47- _____ -
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearingen 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: 8/31/15 Date Permit Application Filed: 9/3/15

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: Don Carder
Address: 245 Harmony Grove Rd.
Grafton, WV 26345

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: John & Kelly Bradley
Address: 44 Hawks Nest Rd.
Mannington, WV 26582

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

11/06/2015

	Swearingen/Hackett		
Landowners	Don Carder, 245 Harmony Grove Rd., Grafton, WV 26345	✓	
	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	✓	
	Gerald Wright, 67 Brown Run Rd., Mannington, WV 26582	✓	
	James Martin, 409 Hoult Rd., Fairmont, WV 26554	✓	
	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	✓	
Coal Owners/Operators	Consolidation Coal Company, 1000 Consol Energy Drive, Canonsburg, PA 15317	✓	
	Murray American Energy, attn: Troy Freels, 1 Bridge St, Monongah, WV 26554	✓	
Water Owners	Michael & Kathy Martin, 335 Hawks Nest Rd, Mannington, WV 26582	✓	
	Maria Pischieri, 297 Hawks Nest Rd, Mannington, WV 26582	✓	
	Dennis & Connie Rowand, 264 Hawks Nest Rd, Mannington, WV 26582	✓	
	John & Kelly Bradley, 44 Hawks Nest Rd, Mannington, WV 26582	✓	
Within 625'	Shirley Penner, 333 Hawks Nest Rd., Mannington, WV 26582	✓	
	Michael & Kathy Martin, 335 Hawks Nest Rd., Mannington, WV 26582	✓	

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11/06/2015

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WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearingen 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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

11/06/2015
Office of Oil and Gas
SEP 08 2015
Department of

04902410

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearingen 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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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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.**

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API NO. 47- _____ - _____
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearingen 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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WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearingen Pad

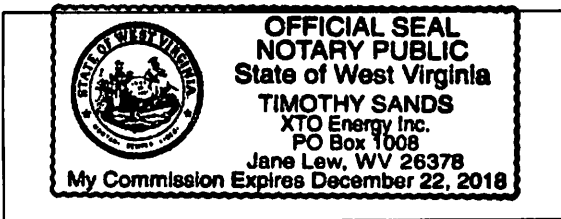
Notice is hereby given by:

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.



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

TJA

Notary Public

My Commission Expires 12/22/18

11/06/2015

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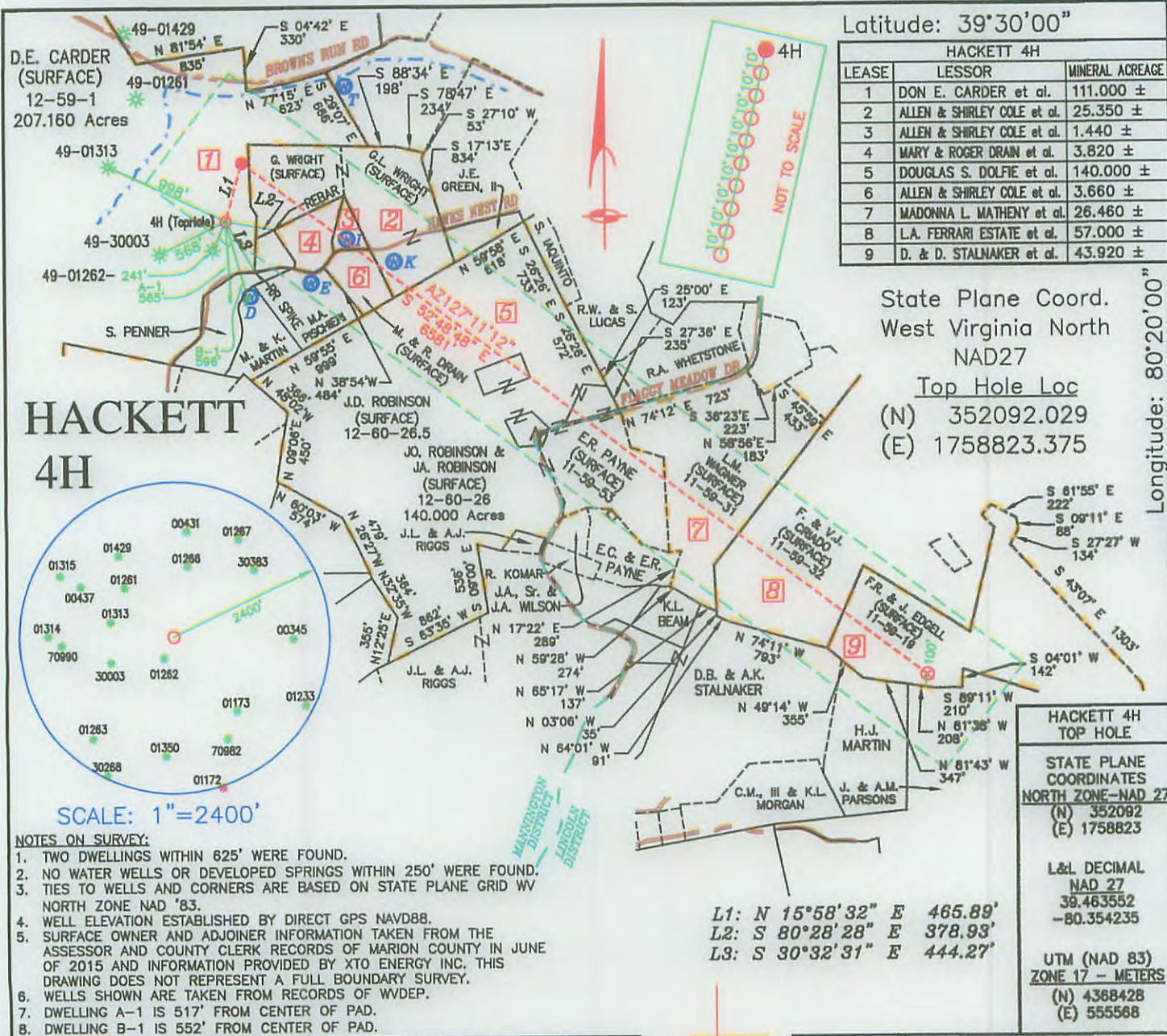
SEP 08 2015

WV Department of
Environmental Protection

47-049-02410

5902' (1"=2000')

Latitude: 39°30'00"

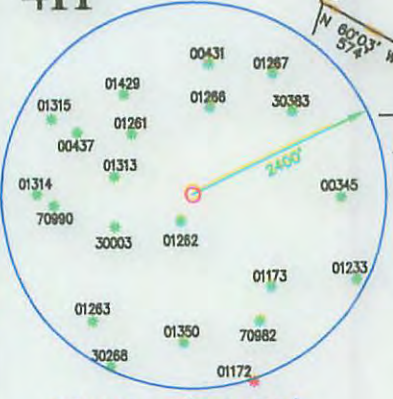


HACKETT 4H		
LEASE	LESSOR	MINERAL ACREAGE
1	DON E. CARDER et al.	111.000 ±
2	ALLEN & SHIRLEY COLE et al.	25.350 ±
3	ALLEN & SHIRLEY COLE et al.	1.440 ±
4	MARY & ROGER DRAIN et al.	3.820 ±
5	DOUGLAS S. DOLFE et al.	140.000 ±
6	ALLEN & SHIRLEY COLE et al.	3.660 ±
7	MADONNA L. MATHENY et al.	26.460 ±
8	L.A. FERRARI ESTATE et al.	57.000 ±
9	D. & D. STALNAKER et al.	43.920 ±

State Plane Coord.
West Virginia North
NAD27

Top Hole Loc
(N) 352092.029
(E) 1758823.375

HACKETT 4H



SCALE: 1"=2400'

NOTES ON SURVEY:

- TWO DWELLINGS WITHIN 625' WERE FOUND.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID WV NORTH ZONE NAD '83.
- WELL ELEVATION ESTABLISHED BY DIRECT GPS NAVD88.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN JUNE OF 2015 AND INFORMATION PROVIDED BY XTO ENERGY INC. THIS DRAWING DOES NOT REPRESENT A FULL BOUNDARY SURVEY.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.
- DWELLING A-1 IS 517' FROM CENTER OF PAD.
- DWELLING B-1 IS 552' FROM CENTER OF PAD.

L1: N 15°58'32" E 465.89'
L2: S 80°28'28" E 378.93'
L3: S 30°32'31" E 444.27'

HACKETT 4H TOP HOLE
STATE PLANE COORDINATES NORTH ZONE-NAD 27 (N) 352092 (E) 1758823
L&L DECIMAL NAD 27 39.463552 -80.354235
UTM (NAD 83) ZONE 17 - METERS (N) 4368428 (E) 555568

LEGEND	HACKETT 4H TURNING POINT			REFERENCES
LEASE BOUNDARY	STATE PLANE COORD.	L&L DECIMAL	UTM (NAD 83)	I.PIN 1"=600'
SURFACE BOUNDARY	NORTH ZONE-NAD 27 (N) 352540 (E) 1758952	NAD 27 39.464785 -80.353796	ZONE 17 - METERS (N) 4368565 (E) 555604	
CREEK / STREAM	HACKETT 4H BOTTOM HOLE			I.PIN #4H (TopHole) N 16°18' W 372' 284' N 77°11' E
ROADS	STATE PLANE COORD.	L&L DECIMAL	UTM (NAD 83)	
PROPOSED LATERAL	NORTH ZONE-NAD 27 (N) 348562 (E) 1764194	NAD 27 39.454000 -80.335097	ZONE 17 - METERS (N) 4367380 (E) 557222	
500' LATERAL OFFSET				
EXISTING GAS WELL				
GROUNDWATER SOURCE / WATER SUPPLY				

TRI-COUNTY ENGINEERING, LLC 319 PAINTERSVILLE RD. HUNKER, PA 15639 TCE@TRICOUNTYENG.COM (724) 635-0210

FILE # XTO-OG61
DRAWING # OG61-23-4H
SCALE: 1"= 1200'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: DIRECT GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *Cynthia A. Born*
R.P.E.: _____ L.L.S.: 2135



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

WVDEP OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTOWN, WV 25304

Well Type: Oil Waste Disposal Production
 Gas Liquid Injection Storage Shallow

WATERSHED: BINGAMON CREEK WATERSHED
COUNTY/DISTRICT: MARION CO. / LINCOLN & MANNINGTON DIST.
SURFACE OWNER: DON E CARDER
OIL & GAS ROYALTY OWNER: DON E CARDER

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS
ESTIMATED DEPTH: 7,590'/14,000'

DATE: 8/27/2015 PLACE SEAL HERE
OPERATOR'S WELL #: HACKETT 4H
API WELL #: 47 49 02410 WVA
STATE COUNTY PERMIT
Deep
ELEVATION: 1376' (PROPOSED GRADE)
QUADRANGLE SHINNSTON 7.5
ACREAGE 207.16
ACREAGE 111.00

DESIGNATED AGENT GARY BEALL
Address P.O. BOX 1008
City JANE LEW State WV Zip Code 26378



11/06/2015

04902410

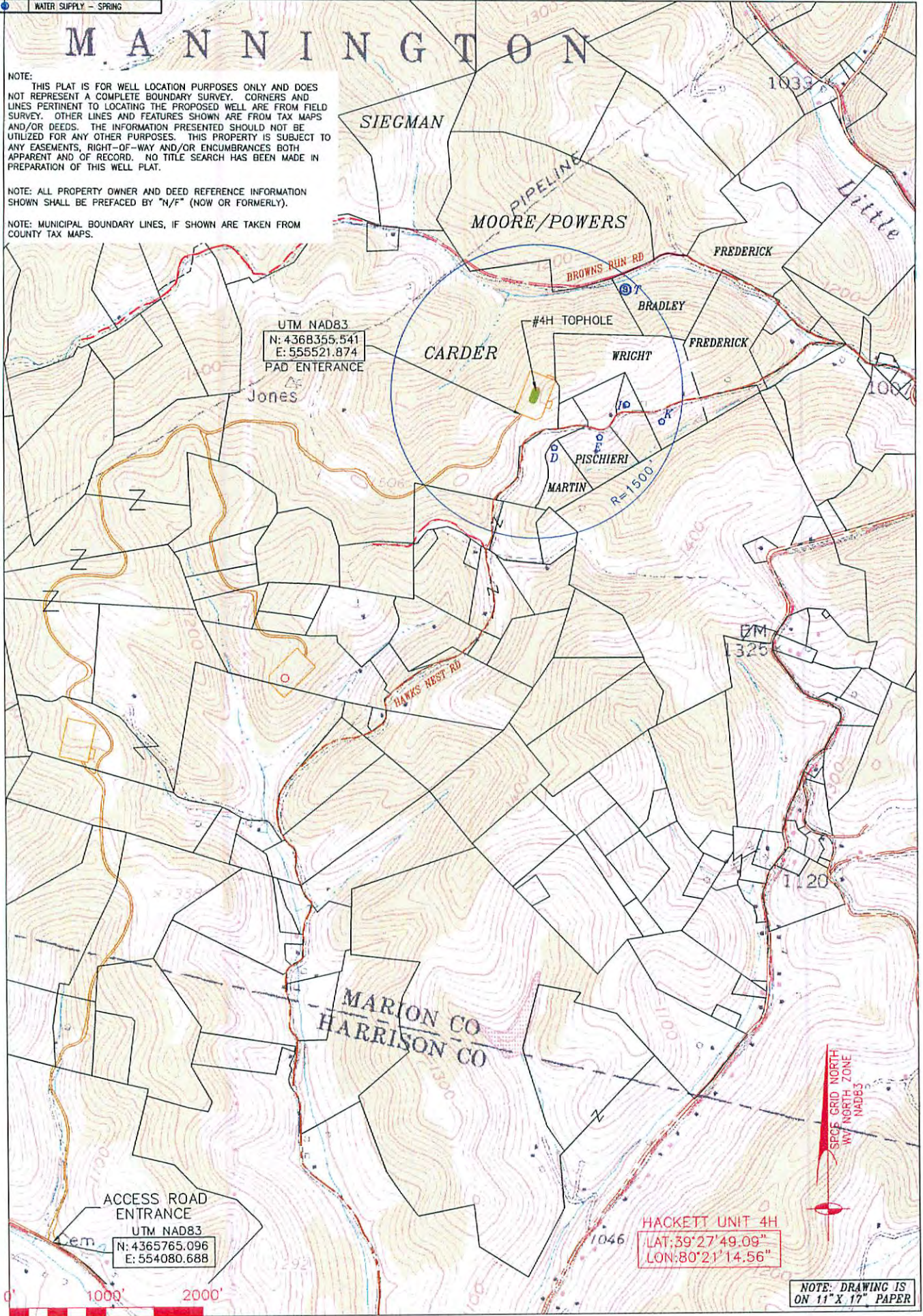
○	WATER SUPPLY - WATER WELL
○	WATER SUPPLY - SPRING

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.



REVISED	COMMENTS

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



HACKETT UNIT 4H
WATER OVERALL
XTO ENERGY INC.

DATE: 8/12/15
 SHEET: 1

MANNINGTON TOWNSHIP
 MARION COUNTY, WEST VIRGINIA
 FILE NO: XTO57-10

1/06/2015

XTO ENERGY INC.

XTOOG61-23

HACKETT WATER OFFSET

(1500' OFFSET)

04902410

8/13/2015

POINT	SOURCE	LAST NAME	MAILING ADDRESS	CITY	STATE	ZIP	BEARING	DISTANCE	PARCEL ID WITHING 3000'
D	CITY WATER	MICHAEL & KATHY MARTIN	335 HAWKS NEST RD	MANNINGTON	WV	26582	S 15°29'23" E	637	12-59-26.2
E	CITY WATER	MARIA A PISCHIERI	297 HAWKS NEST RD	MANNINGTON	WV	26582	S 51°16'23" E	817	12-59-26
I	CITY WATER	DENNIS & CONNIE ROWAND	264 HAWKS NEST RD	MANNINGTON	WV	26582	S 78°50'36" E	929	12-59-27.2
K	CITY WATER	GERALD L WRIGHT	67 BROWNS RUN RD	MANNINGTON	WV	26582	S 74°28'44" E	1319	12-59-28
T	SPRING DEVELOPED	JOHN J SR & KELLY J BRADLEY	44 HAWKS NEST RD	MANNINGTON	WV	26582	N 41°55'06" E	1349	12-60-32

SEP 08 2015

WV Department of Environmental Protection

STATE OF WEST VIRGINIA **04902410**
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: July 27, 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: Don E. Carder
 Address: 245 Harmony Grove Rd
 Grafton, WV 26354
 Name: _____
 Address: _____
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: *See Attached
 Address: _____

 MINERAL OWNER(s)
 Name: *See Attached
 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>39.463637, -80.354044</u>
County: <u>Marion</u>	Public Road Access: <u>Hawks Nest Rd</u>
District: <u>Mannington</u>	Watershed: <u>Little Bingamon Creek</u>
Quadrangle: <u>Shinnston 7.5</u>	Generally used farm name: <u>Hackett 4H</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 57th 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.

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 deprivacyofficer@wv.gov.

11/06/2015

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Office of Oil and Gas

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WV Department of
Environmental Protection

04902410

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: Don E. Carder
Address: 245 Harmony Grove Rd.
Grafton, WV 26354
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>39.463637, -80.354044</u>
County: <u>Marion</u>	Public Road Access: <u>Hawks Nest Rd</u>
District: <u>Mannington</u>	Watershed: <u>Little Bingamon Creek</u>
Quadrangle: <u>Shinnston 7.5</u>	Generally used farm name: <u>Hackett 4H</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 57th 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.

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.

11/06/2015

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Office of Oil and Gas

SEP 08 2015

WV Department of
Environmental Protection

04902410

Mineral Owners:

<u>Name</u>	<u>Address</u>
Don E. Carder & Johannah Carder	245 Harmony Grove Rd ✓ Grafton, WV 26354
Douglas Swearingen & Leann Swearingen	128 Marion St. ✓ Fairmont, WV 26554

11/06/2015

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Office of

SEP 18 2015

WV Department of
Environmental Protection

Coal Owners: 04902410

<u>Name</u>	<u>Address</u>
Consolidated Coal Company c/o Leatherwood, Inc	1000 Consol Energy Dr. / Canonsburg, PA 15317
Murray American Energy c/o Troy Freels	1 Bridge St. / Monongah, WV 26554

11/06/2015

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WV Department of
Environmental Protection

Landowners	Don Carder, 245 Harmony Grove Rd., Grafton, WV 26345	✓
for Access Road	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	✓
	Gerald Wright, 67 Brown Run Rd., Mannington, WV 26582	✓
	James Martin, 409 Hault Rd., Fairmont, WV 26554	✓
	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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11/06/2015
SEP 08 2015
WV Department of
Energy

04902410

WW-6A5
(1/12)

Operator Well No. Hackett 4H

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: 9/3/15

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: Don Carder
Address: 245 Harmony Grove Rd.
Grafton, WV 26345

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: West Virginia UTM NAD 83 Easting: 555568
County: Marion Northing: 4368428
District: Mannington Public Road Access: Harrison County Rt. 3 (Robinson Wyatt Run)
Quadrangle: Shinnston 7.5' Generally used farm name: Don Carder
Watershed: Bingamon Creek

This Notice Shall Include:

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

Well Operator: 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.

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Office of Oil and Gas

SEP 08 2015

WV Department of
Environmental Protection

Landowners	Don Carder, 245 Harmony Grove Rd., Grafton, WV 26345
	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
	Gerald Wright, 67 Brown Run Rd., Mannington, WV 26582
	James Martin, 409 Hoult Rd., Fairmont, WV 26554
	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

} ✓

04902410

01720670

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Office of Oil and Gas
11/06/2015
SEP 08 2015
WV Department of
Environmental Protection

201500013431
JNC1
311 SOUGH CENTRAL AVENUE
SUITE 102
CANNONSBURG PA 15717

WW-6RW
(T=12)

API NO. 47- 049 - 02410
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearingen

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, XTO Energy Inc. is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), 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.

WAIVER

I, Shirley Penner, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 555568
County: Marion UTM NAD 83 Northing: 4388428
District: Mannington Public Road Access: Harrison County Rt. 3 (Robinson Wyatt Run)
Quadrangle: Shinnston Generally used farm name: Don Carder
Watershed: Bingamon Creek (0502000206)

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

<p>WELL SITE RESTRICTIONS BEING WAIVED</p> <p>*Please check all that apply</p> <p><input type="checkbox"/> EXISTING WATER WELLS</p> <p><input type="checkbox"/> DEVELOPED SPRINGS</p> <p><input checked="" type="checkbox"/> DWELLINGS</p> <p><input type="checkbox"/> AGRICULTURAL BUILDINGS</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Shirley Penner</u></p> <p>Print Name: <u>Shirley Penner</u></p> <p>Date: <u>10/20/2015</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
--	--

Well Operator: XTO Energy Inc. Prepared by: _____ Signature: Jan 12
By: Janice McKinley Telephone: 903 330 0992
Its: JNC1



Subscribed and sworn before me this 30th day of October
Keith D. Capps Notary Public
My Commission Expires April 15, 2022

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.

201500013431
Filed for Record in
MARION COUNTY, WV
JANICE COSCO, COUNTY CLERK
10-30-2015 At 01:04 pm.
WAIVER DEED 16.00
STATE TAX .00
COUNTY TAX .00
Book 1180 Page 846 - 846

11/06/2015

201500013433
JWC1
311 SOUGH CENTRAL AVENUE
SUITE 102
CANNONSBURG PA 15707
WW-6RW
(T-12)

API NO. 47- 049 - 02410
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearingen

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, XTO Energy Inc. is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), 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.

WAIVER

I, Michael Martin & Kathy Martin, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 555568
County: Marion UTM NAD 83 Northing: 4368428
District: Mannington Public Road Access: Harrison County Rt. 3 (Robinson Wyatt Run)
Quadrangle: Shlinston Generally used farm name: Don Carder
Watershed: Bingaman Creek (0502000206)

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- EXISTING WATER WELLS
- DEVELOPED SPRINGS
- DWELLINGS
- AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON

Signature: Michael Martin & Kathy Martin
Print Name: Michael Martin & Kathy Martin
Date: Oct 30 - 2015
FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Well Operator: XTO Energy Inc. Prepared by: _____ Signature: [Signature]
By: Jarrod McKenley Telephone: 903-330-0992
Its: JWC1



Subscribed and sworn before me this 30th day of October
Keith D. Capps Notary Public
My Commission Expires April 18, 2022

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.

201500013434
Filed for Record in
MARION COUNTY, WV
JANICE COSCO, COUNTY CLERK
10-30-2015 At 01:04 pm.
WAIVER DEED 16.00
STATE TAX .00
COUNTY TAX .00
Book 1180 Page 849 - 849

11/06/2015

WW-6RW
(1-12)

API NO. 47- 049 - 02410
OPERATOR WELL NO. Hackett 4H
Well Pad Name: Swearington

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, XTO Energy Inc is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

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WAIVER

I, Michael Martin & Kathy Martin, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 555668
County: Marion UTM NAD 83 Northing: 4368428
District: Marion Public Road Access: Harrison County Rt. 3 (Robinson Wyatt Run)
Quadrangle: Shiraton Generally used farm name: Don Carder
Watershed: Bingamon Creek (0502000208)

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- EXISTING WATER WELLS
- DEVELOPED SPRINGS
- DWELLINGS
- AGRICULTURAL BUILDINGS

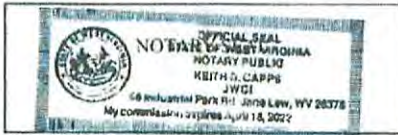
FOR EXECUTION BY A NATURAL PERSON

Signature: Michael Martin Kathy Martin
Print Name: Michael Martin & Kathy Martin
Date: oct 2015
FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Well Operator: XTO Energy Inc.

By: Jarrod McKinley
Its: JWCI

Signature: John McKinley
Telephone: 903-330-0992



Subscribed and sworn before me this 30th day of October
Keith D. Capps Notary Public
My Commission Expires April 18, 2022

Oil and Gas Privacy Notice:

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WW-6RW
(1-12)

API NO. 47- 049 - 02410
OPERATOR WELL NO. Hackitt 4H
Well Pad Name: Sweazinger

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, XTO Energy Inc is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

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WAIVER

I, Shirley Pennar, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 555508
County: Marion UTM NAD 83 Northing: 4369428
District: Mannington Public Road Access: Harrison County Rt. 3 (Robinson Wyatt Run)
Quadrangle: Shinnston Generally used farm name: Don Carter
Watershed: Bingamon Creek (0502000208)

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- EXISTING WATER WELLS
- DEVELOPED SPRINGS
- DWELLINGS
- AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON

Signature: Shirley Pennar
Print Name: Shirley Pennar

Date: 10/30/2015

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____

By: _____

Its: _____

Signature: _____

Date: _____

Well Operator: XTO Energy Inc

By: Jerrod McKinley

Its: JWCI

Signature: Keith D. Capps
Telephone: 903-330-0992



Subscribed and sworn before me this 30th day of October

Keith D. Capps Notary Public

My Commission Expires April 18, 2022

Oil and Gas Privacy Notice:

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04902410



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 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Swearingen Well Pad, Marion County
Hackett 4H

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 cursive script 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

11/06/2015

E.E.O./AFFIRMATIVE ACTION EMPLOYER

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Office of Oil and Gas

SEP 08 2015

WV Department of
Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

04902410

Hydraulic Fracturing Fluid Composition:

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Office of Oil and Gas
SEP 08 2015
New York Department of

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	Dibromoacetonitrile	3252-43-5	5.00%	0.00%	
			2,2-Dibromo-3-nitrilopropionamide	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%	

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

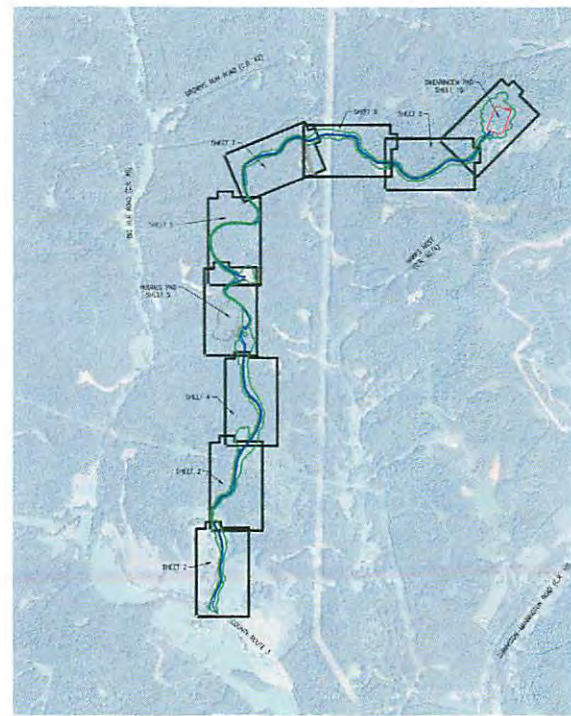
APPROVED
WVDEP OOG
2/25/2015



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

Electronic Version of These Plans May Be Viewed at: Q:\OIL GAS\SAY FILES\REVIEWS
API#4902362

DISTURBED AGERAGE		
PROPERTY OWNER	TAX I.D.	DISTURBED AREA
FARA MAY WEBB	09-146-05	1.052 AC
DAVID W WOOD	05-145-05 2	2.200 AC
GERALD L LUCAS	12-59-9 2	0.100 AC
CPIM FAMILY LIVING TRUST	12-59-59	1.600 AC
JOHN G & RITA L HELDRETH	12-59-10	0.003 AC
JANET NUTTER & DARLENA BRADNER	12-59-10 5	0.800 AC
JOHN G & RITA L HELDRETH	12-59-10	3.700 AC
CPIM FAMILY LIVING TRUST	12-59-55	0.040 AC
FAYE C ROCKWELL	12-59-05	1.600 AC
PERRY L HUGHES	12-59-16	2.800 AC
FAYE C ROCKWELL	12-59-08	5.200 AC
PERRY L HUGHES	12-59-11 2	1.400 AC
GERALD L WRIGHT - PAD	12-59-26	0.200 AC
JAMES C MARTIN	12-59-75	0.300 AC
DAIN E CARMON ROAD	12-59-01	0.900 AC
JOHN E CARROLL - PAD	12-59-01	7.400 AC



0' 1000' 2000' 3000'
SCALE 1" = 1000'

DRAWING INDEX		
PLAN	TITLE	SHEET NUMBER
SEDIMENT CONTROL PLAN		
"SEDIMENT CONTROL PLAN"	E&S CONTROL PLAN - COVER	SHEET 1
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 2
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 3
	ACCESS ROAD & FILL AREA 2	SHEET 4
	ACCESS ROAD & STOCKPILE AREAS	SHEET 5
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 6
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 7
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 8
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 9
	SWEARINGEN WELL PAD & ACCESS ROAD	SHEET 10
	ACCESS ROAD PROFILES	SHEET 11
	ACCESS ROAD PROFILES	SHEET 12
	ACCESS ROAD PROFILES	SHEET 13
	PROFILES & SECTIONS	SHEET 14
	ACCESS ROAD CROSS SECTIONS	SHEET 15
	ACCESS ROAD CROSS SECTIONS	SHEET 16
	ACCESS ROAD CROSS SECTIONS	SHEET 17
	ACCESS ROAD CROSS SECTIONS	SHEET 18
	ACCESS ROAD CROSS SECTIONS	SHEET 19
"DETAILS & NARRATIVE"	DETAILS	SHEET 20
	DETAILS	SHEET 21
	DETAILS	SHEET 22
	NARRATIVE	SHEET 23
	NARRATIVE	SHEET 24
"CONTAINMENT SBT"	PAD LAYOUT (DRILL PHASE)	SHEET 25
	PAD LAYOUT (FRAC PHASE)	SHEET 26
	DETAILS	SHEET 27

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	WVDEP COMMENTS	1/29/15	A.C.

SOURCE: RELIABLE UNDERGROUND UTILITIES; NO WARRANTY IS MADE. THE PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATION OF EXISTING UTILITIES SHOWN HEREON ARE THE CURRENT LOCATIONS. THE DEPICTION OF UTILITIES HEREON DOES NOT RELIEVE THE CONTRACTORS WHO WILL BE PERFORMING EXCAVATIONS FROM COMPLYING WITH WEST VIRGINIA LAW REGULATING CONDUCTIONS. S&B REQUIREMENTS CAN BE SATISFIED, IN PART, BY CONTACTING THE WORK AT 486-6445 H&M.

XTO ENERGY
310 HOUSTON STREET
FORT WORTH, TX 76102

TRI-COUNTY ENGINEERING, LLC
515 Parkersville Road
Pawnee, WV 26055
www.TriCountyEng.com

Phone: (204) 638-1212 Fax: (204) 638-1078

SEDIMENT CONTROL PLAN - COVER

SWEARINGEN WELL PAD & ACCESS ROADS

Drawn by: M.S.	Rev: 8/22/14	DATE: 02/25/2015	PROJECT: SWEARINGEN WELL PAD & ACCESS ROADS
Scale: AS NOTED	Sheet: 1 of 1	Sheet No: 1	Project No: XTO-0642-15
File # 1204445			

APPROVED
WVDEP OOG
2/25/2015

N/F
DON E. CORDER
DB: 942 PG. 228
DB: 945 PG. 315
TAX I.D. 12-50-01
ROAD DISTURBED AREA: 6,900 AC.
PAD DISTURBED AREA: 7,400 AC.

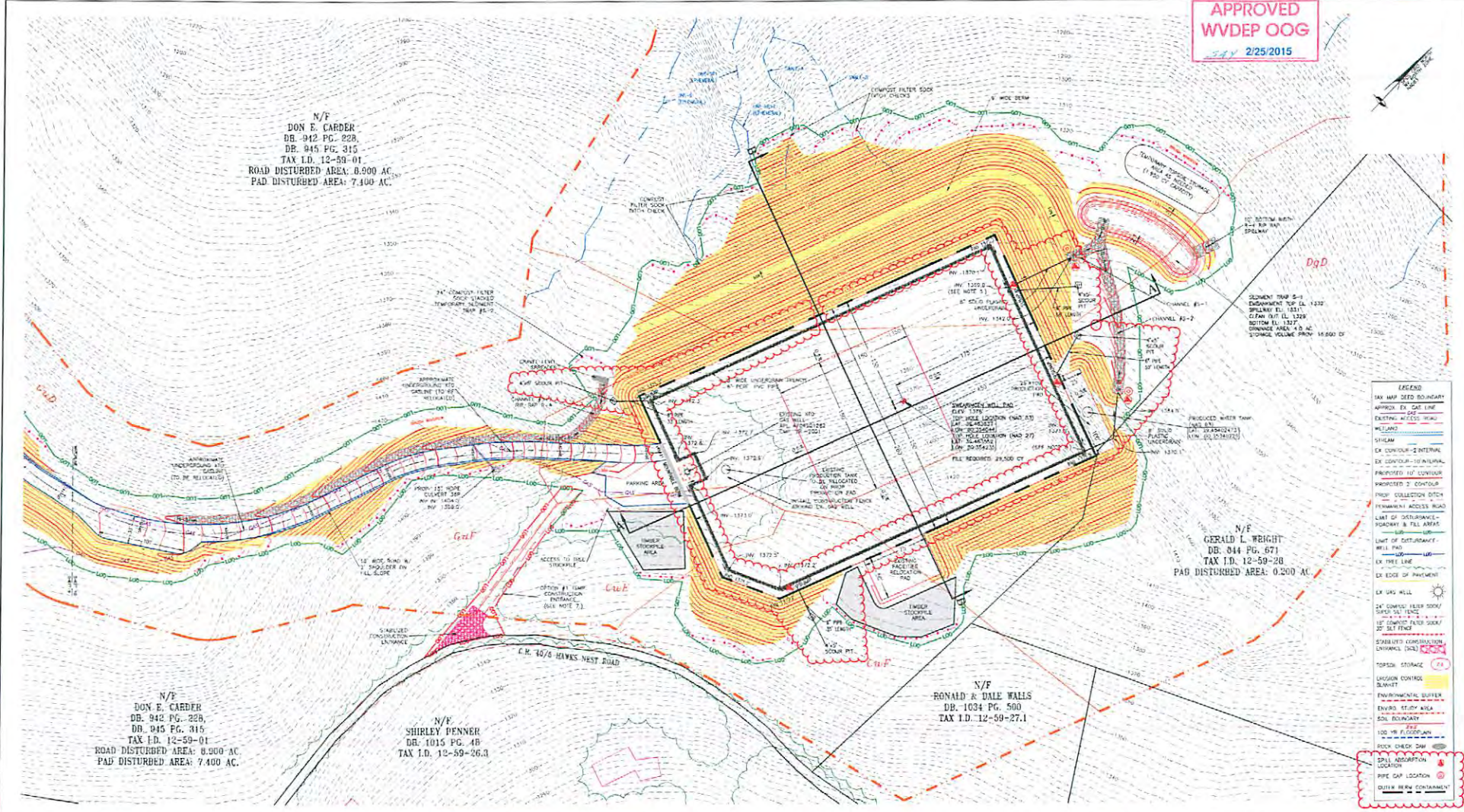
N/F
GERALD L. WRIGHT
DB: 844 PG. 67
TAX I.D. 12-59-28
PAD DISTURBED AREA: 0,200 AC.

N/F
DON E. CORDER
DB: 942 PG. 228
DB: 945 PG. 315
TAX I.D. 12-50-01
ROAD DISTURBED AREA: 6,500 AC.
PAD DISTURBED AREA: 7,400 AC.

N/F
SHIRLEY PENNER
DB: 1015 PG. 48
TAX I.D. 12-59-26.3

N/F
RONALD & DALE WALLS
DB: 1034 PG. 500
TAX I.D. 12-59-27.1

- LEGEND**
- TAX MAP DEED BOUNDARY
 - APPROX EX. CAT. LINE
 - EXISTING ACCESS ROAD
 - WETLAND
 - SHOULDER
 - EX. CONTOUR - INTERNAL
 - PROPOSED 10' INTERNAL
 - PROPOSED 5' CONTOUR
 - PROF. COLLECTION DITCH
 - PERMANENT ACCESS ROAD
 - LIMIT OF DISTURBANCE - ROADWAY & FILL AREAS
 - LIMIT OF DISTURBANCE - FILL PAD
 - EX. FILL LINE
 - EX. EDGE OF PAVEMENT
 - EX. SIDE WALK
 - 24" CONCRETE PIPER 3000' SLOPE 5% 12" DIA.
 - 18" CONCRETE PIPER 3000' SLOPE 5% 12" DIA.
 - STABILIZED CONSTRUCTION ENTRANCE (SCE)
 - TOPSOIL STORAGE
 - VEGETATION CONTROL
 - ENVIRONMENTAL BUFFER
 - ENVIRONMENTAL STUDY AREA
 - SOIL BOUNDARY
 - 100' W.P. FLOODPLAIN
 - ROCK CHECK DAM
 - SPILL ABSORPTION LOCATION
 - PILE CAP LOCATION
 - OUTLET BERM CONTAINMENT



REVISIONS

NO.	DEFINITION	DATE	BY
1	WVDEP COMMENTS 1	12/11/14	AVG
2	WVDEP COMMENTS 2	2/21/15	AVG

GENERAL NOTES

- CONTRACTOR SHALL VERIFY THE EXISTING UTILITY AND PUBLIC ROAD RECORDS BEFORE ANY CONSTRUCTION IS TO BE PLACED IN THE ROAD WITHIN THE NEAREST RIGHTS OF WAY.
- IF THE CONTRACTOR IS REQUIRED TO USE THE NEAREST RIGHT-OF-WAY DRIVEWAY AND DRIVEWAY TO BE USED AS A DRIVEWAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRIVEWAY AND SHALL BE RESPONSIBLE FOR THE DRIVEWAY TO BE USED AS A DRIVEWAY.
- IF THE CONTRACTOR IS REQUIRED TO USE THE NEAREST RIGHT-OF-WAY DRIVEWAY AND DRIVEWAY TO BE USED AS A DRIVEWAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRIVEWAY AND SHALL BE RESPONSIBLE FOR THE DRIVEWAY TO BE USED AS A DRIVEWAY.
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- CONTRACTOR SHALL VERIFY THE EXISTING UTILITY AND PUBLIC ROAD RECORDS BEFORE ANY CONSTRUCTION IS TO BE PLACED IN THE ROAD WITHIN THE NEAREST RIGHTS OF WAY.

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

NOTES: REGARDING UNDERGROUND UTILITIES, NO WARRANTY IS MADE THAT THE PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATION OF EXISTING UTILITIES SHOWN HEREON ARE THE CORRECT LOCATION. THE LOCATION OF UTILITIES HEREON DOES NOT RELIEVE THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR VERIFYING EXISTING UTILITIES WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS, AND RECORDINGS CAN BE OBTAINED IN PLANT, BY CONTACTING THE BUREAU AT 1-800-245-4848.



XTO ENERGY
810 HOUSTON STREET
FORT WORTH, TX 76102

TRI-COUNTY ENGINEERING, LLC
215 BAYVIEW BLVD
PUNYA, PA 15133
Tel: (724) 436-0210 Fax: (724) 436-0219

SEDIMENT CONTROL PLAN
SWEARINGIN WELL PAD & ACCESS ROAD

Drawn by: MFS Date: 8/22/14
Scale: 1" = 50' Sheet: 5 of 10
Date: 1/20/15

04902410

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

APPROVED
WVDEP OOG
2/25/2015

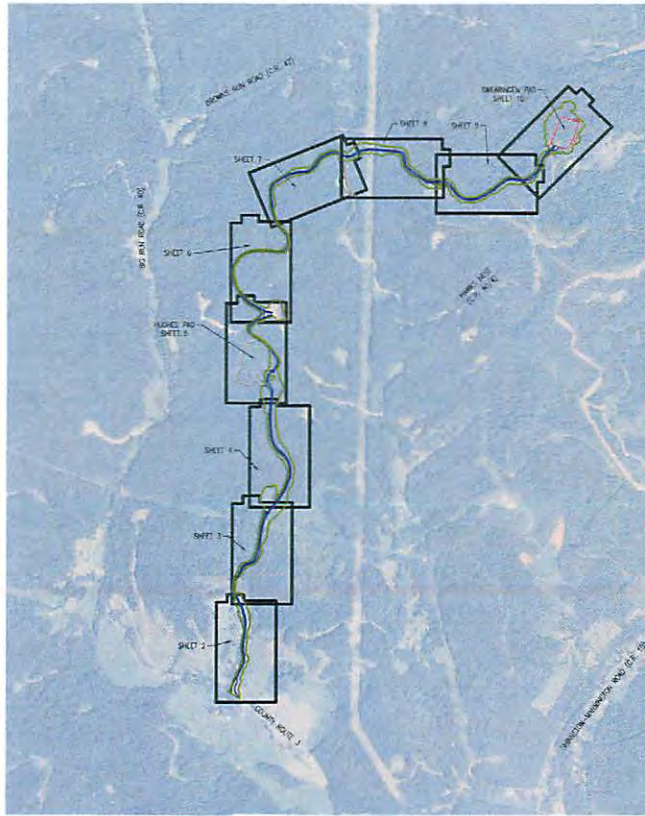


REGISTRY
3102 HUBBARD
HARRISON CO. WV
Office of Oil and Gas

SEP 08 2015
WV Department of Environmental Protection
WPH
8-29-15

Electronic Version of These Plans May Be Viewed at: Q:\OIL GAS\SAY FILES\REVIEWS
API#4902362

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



DISTURBED ACERAGE		
PROPERTY OWNER	TAX I.D.	DISTURBED AREA
FARA MAY WEBB	09-146-05	1.092 AC.
DAVID W WEBB	09-145-09.2	2.200 AC.
GERALD 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	9.200 AC.
PERRY L HUGHES	12-59-8.2	1.400 AC.
GERALD L WRIGHT - PAD	12-59-28	0.200 AC.
JAMES C MARTIN	12-59-25	0.300 AC.
DON E CARDER - ROAD	12-59-01	6.900 AC.
DON E CARDER - PAD	12-59-01	7.400 AC.

DRAWING INDEX		
PLAN	TITLE	SHEET NUMBER
SEDIMENT CONTROL PLAN		
SEDIMENT CONTROL PLAN	E&S CONTROL PLAN - COVER	SHEET 1
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 2
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 3
	ACCESS ROAD & FILL AREA 2	SHEET 4
	ACCESS ROAD & STOCKPILE AREAS	SHEET 5
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	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 8
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	SWEARINGEN WELL PAD & ACCESS ROAD	SHEET 10
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	ACCESS ROAD PROFILES	SHEET 12
	ACCESS ROAD PROFILES	SHEET 13
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	ACCESS ROAD CROSS SECTIONS	SHEET 15
	ACCESS ROAD CROSS SECTIONS	SHEET 16
	ACCESS ROAD CROSS SECTIONS	SHEET 17
	ACCESS ROAD CROSS SECTIONS	SHEET 18
	ACCESS ROAD CROSS SECTIONS	SHEET 19
DETAILS & NARRATIVE		
	DETAILS	SHEET 20
	DETAILS	SHEET 21
	DETAILS	SHEET 22
	NARRATIVE	SHEET 23
	NARRATIVE	SHEET 24
CONTAINMENT SET		
	PAD LAYOUT (DRILL PHASE)	SHEET 25
	PAD LAYOUT (FRAC PHASE)	SHEET 26
	DETAILS	SHEET 27

REVISIONS			
NO	DESCRIPTION	DATE	BY
1	WVDEP COMMENTS	1/29/15	AJC

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 HEREON 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 MARY AT 1-800-245-4848.

810 HOUSTON STREET
FORT WORTH, TX 76102

TRI-COUNTY ENGINEERING, LLC

315 Fortworth Road
P.O. Box 15839
Fort Worth, TX 76115
www.TriCountyEng.com

Voice: (724) 835-0210 Fax: (724) 835-0878

SEDIMENT CONTROL PLAN - COVER

SWEARINGEN WELL PAD & ACCESS ROADS

Drawn by: MFS Date: 8/22/14 Eagle District, Harrison County
Mannington District, Marion County
West Virginia

Scale: AS NOTED Sheet: 1 of 1

WT # 1205445 SH1 1 XTO-0042-25

0 1000 2000 3000
SCALE 1" = 1000'

04902410

N/F
DON E. CORDER
DB. 942 PG. 328,
DB. 945 PG. 315
TAX I.D. 12-59-01
ROAD DISTURBED AREA: 8.900 AC.
PAD DISTURBED AREA: 7.400 AC.

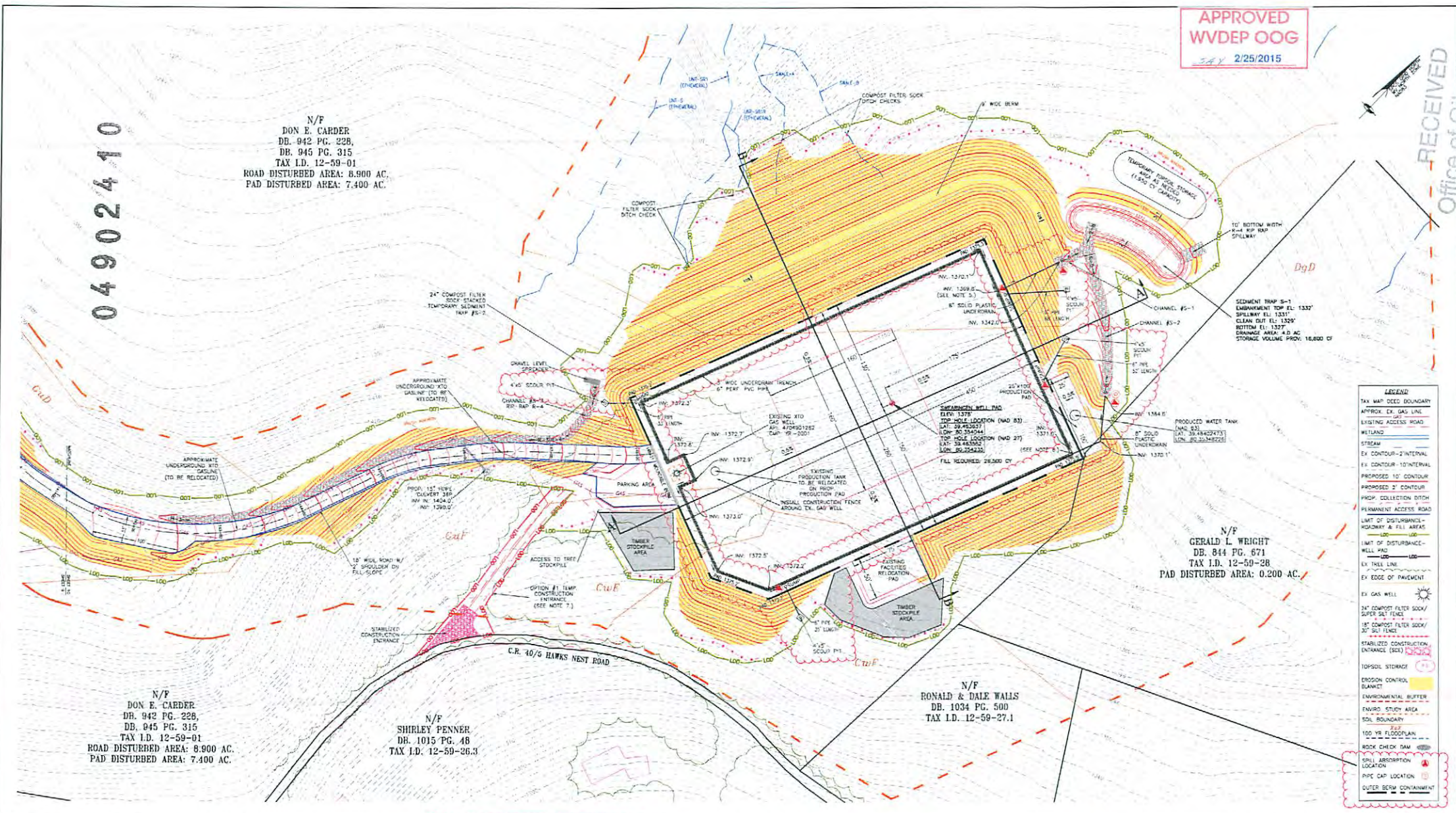
N/F
DON E. CORDER
DB. 942 PG. 226,
DB. 945 PG. 315
TAX I.D. 12-59-01
ROAD DISTURBED AREA: 8.900 AC.
PAD DISTURBED AREA: 7.400 AC.

N/F
SHIRLEY PENNER
DB. 1015 PG. 48
TAX I.D. 12-59-26.3

N/F
RONALD & DALE WALLS
DB. 1034 PG. 500
TAX I.D. 12-59-27.1

APPROVED
WVDEP OOG
2/25/2015

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Office of Oil and Gas
DEPT 8 2015
4-28-15
WV Department of
Environmental Protection



- LEGEND**
- TAX MAP DEED BOUNDARY
 - APPROX. EX. GAS LINE
 - EXISTING ACCESS ROAD
 - WETLAND
 - STREAM
 - EX. CONTOUR - 2' INTERNAL
 - EX. CONTOUR - 10' INTERNAL
 - PROPOSED 10' CONTOUR
 - PROPOSED 2' CONTOUR
 - PROP. COLLECTION DITCH
 - PERMANENT ACCESS ROAD
 - LIMIT OF DISTURBANCE - HIGHWAY & FILL AREAS
 - LIMIT OF DISTURBANCE - WELL PAD
 - EX. TREE LINE
 - EX. EDGE OF PAVEMENT
 - EX. GAS WELL
 - 24" COMPOST FILTER SOCK / SUPER SALT FENCE
 - 18" COMPOST FILTER SOCK / 30" SALT FENCE
 - STABILIZED CONSTRUCTION ENTRANCE (SEE)
 - TOPSOIL STORAGE
 - EROSION CONTROL BLANKET
 - ENVIRONMENTAL BUFFER
 - ENVIRONMENTAL STUDY AREA
 - SOIL BOUNDARY
 - 100 YR FLOODPLAIN
 - SOIL ABSORPTION LOCATION
 - PIPE CAP LOCATION
 - OUTER BERM CONTAINMENT

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	WVDEP COMMENTS	2/5/15	AJS
2	WVDEP COMMENTS 2	2/23/15	ALD

1. SWARINGEN WELL PAD AND SWAMP WELLS
CONSTRUCTION SHALL BE INSTALLED PRIOR TO DRILLING AND
COMPLETION OPERATIONS ON THE WELL PAD.
12. PROPOSED BENCH, STAMPS, AND APPURTENANCES SHALL BE INSTALLED PRIOR TO DRILLING AND
COMPLETION OPERATIONS ON THE WELL PAD.
13. NO DISCHARGE SHALL BE ALLOWED DURING DRILLING AND COMPLETION ACTIVITIES ON THE WELL PAD
UNLESS ALL EXISTING GAS LINES TO BE GROSSED SHALL BE PROTECTED (DRAINING LINES) AND SHALL BE
COORDINATED WITH UTILITY OWNER FOR CROSSING REQUIREMENTS.

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Miss Utility of West Virginia
1-800-245-4848
TICKETS: 1317043350 & 1317043351

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 MURRY AT 1-800-245-4848



XTO ENERGY
810 HOUSTON STREET
FORT WORTH, TX 76102

GRAPHIC SCALE 1" = 50'

TRI-COUNTY ENGINEERING, LLC
316 Pointeview Road
Hurricane, VA 25939
www.tri-countyeng.com

Voice: (724) 635-0210 Fax: (724) 635-0878

SEDIMENT CONTROL PLAN
SWARINGEN WELL PAD & ACCESS ROAD

Drawn By	Date	Checked By	Date	Project No.
MFS	8/22/14			XTO-0642-23.24.25

Sheet: 1" = 50' SHEET 10 OF 10

04902410

SEDIMENT CONTROL PLAN FOR THE

SWEARINGEN WELL PAD & ACCESS ROAD EAGLE & MANNINGTON DISTRICTS HARRISON & MARION COUNTIES, WEST VIRGINIA



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

RECEIVED
Office of Oil and Gas
WV DEP
8-29-15
WV Department of
Environmental Protection

APPROVED
WVDEP OOG
7/21/2015



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.
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	9.400 AC.
PERRY L HUGHES	12-59-8.2	1.400 AC.
GERALD L WRIGHT - PAD	12-59-28	0.200 AC.
JAMES C MARTIN	12-59-25	0.300 AC.
DON E CORDER - ROAD	12-59-01	8.900 AC.
DON E CORDER - PAD	12-59-01	7.400 AC.

DRAWING INDEX		
PLAN	TITLE	SHEET NUMBER
SEDIMENT CONTROL PLAN		
SEDIMENT CONTROL PLAN	E&S CONTROL PLAN - COVER	SHEET 1
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 2
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 3
	ACCESS ROAD & FILL AREA 2	SHEET 4
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	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 8
	ACCESS ROAD TO SWEARINGEN WELL PAD	SHEET 9
	SWEARINGEN WELL PAD & ACCESS ROAD	SHEET 10
	ACCESS ROAD PROFILES	SHEET 11
	ACCESS ROAD PROFILES	SHEET 12
	ACCESS ROAD PROFILES	SHEET 13
	PROFILES & SECTIONS	SHEET 14
	ACCESS ROAD CROSS SECTIONS	SHEET 15
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	ACCESS ROAD CROSS SECTIONS	SHEET 18
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	DETAILS	SHEET 20
	DETAILS	SHEET 21
	DETAILS	SHEET 22
	NARRATIVE	SHEET 23
	NARRATIVE	SHEET 24
CONTAINMENT SET		
	PAD LAYOUT (DRILL PHASE)	SHEET 25
	PAD LAYOUT (FRAC PHASE)	SHEET 26
	DETAILS	SHEET 27

Swearingen 1H-API-47-049-02362

REVISIONS			
NO	DESCRIPTION	DATE	BY
1	WVDEP COMMENTS	1/29/15	AJC
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 HEREON 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 WUMU AT 1-800-245-4444.

810 HOUSTON STREET
FORT WORTH, TX 76102

TRI-COUNTY ENGINEERING, LLC
315 Pointcharwell Road
Hurlock, PA 15629
www.TriCountyEng.com

Voice: (724) 835-0210 Fax: (724) 835-0676

SEDIMENT CONTROL PLAN - COVER

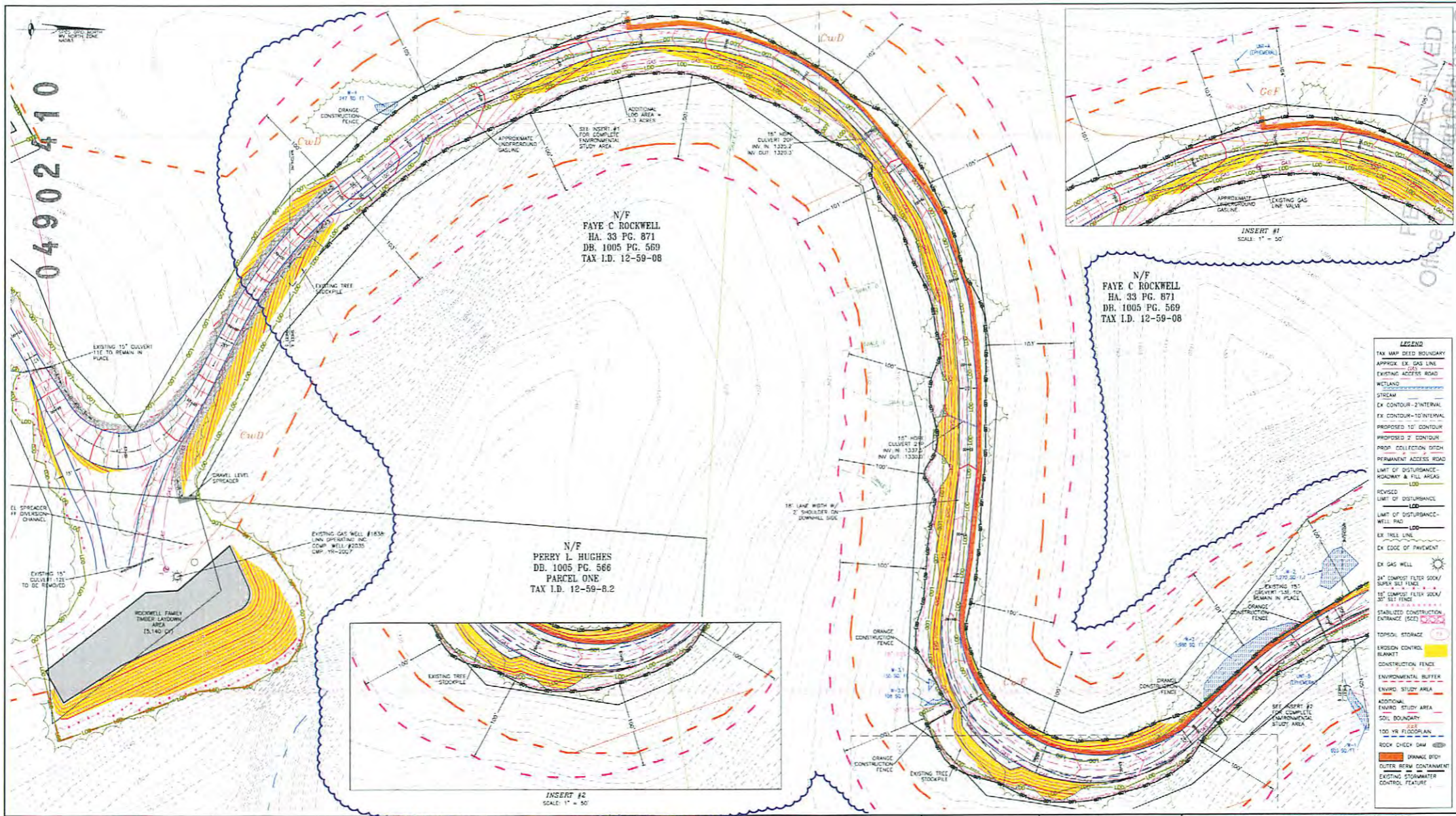
SWEARINGEN WELL PAD & ACCESS ROADS

Sheet No: 1/1 Date: 8/22/14 Eagle District, Harrison County, Mannington District, Marion County, West Virginia

Scale: AS NOTED Sheet: 1 of 27

W# #: 1205445 SH# 1 XTO-0042-25

SEP 08 2015
 08:14
 8-29-15
 WV Department of Environmental Protection



REVISIONS

NO.	DESCRIPTION	DATE	BY
1	WVDEP COMMENTS	1/5/14	AUG
2	WVDEP COMMENTS 2	2/23/15	AUG
3	ROAD REALIGNMENT	6/11/15	RAM

APPROVED
WVDEP OOG
 7/21/2015

NOTES

SEGMENT CONTROL PLAN AND PERMIT NOTES:

- CONSTRUCTION ACTIVITIES ON THE ADJACENT STREAM 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 BARRIERS TO MINIMIZE EROSION AND DETRIMENT TO STREAMS AND WETLANDS, AND TO OBTAIN UNDERGROUND UTILITIES.
- IF PROJECT CHANGES REQUIRE NEW PERMITS, CONSULT WITH THE PERMITTING/ENVIRONMENTAL ENGINEER PRIOR TO CONSTRUCTION IN THESE NEW AREAS. PROJECT CHANGES INCLUDE ANY LAND DISTURBING OUTSIDE OF THE DISTURBED LIMIT OF DISTURBANCE, ADDITIONAL ACCESS ROADS, WORKPACES, AND STORAGE YARDS USED FOR THIS PROJECT.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO CORROBORATE CROSSINGS & POSSIBLY RELOCATIONS.
- ENVIRONMENTAL FEATURES SHOWN OUTSIDE OF STUDY AREA ARE APPROXIMATED FROM IN-SITU AVAILABLE MAPPING & LEGS TOPOGRAPHIC MAPS.
- ALL CULVERT DETAILS SHOWN IN A UNLESS OTHERWISE SPECIFIED.
- ALL PROPOSED ACTIVITIES TO BE DONE OUT OF THE FLOODPLAIN.
- ALL EXISTING GAS LINES TO BE PROTECTED (DRAINS, ETC.) AND SHALL BE COORDINATED WITH UTILITY OWNER FOR CROSSING REQUIREMENTS.
- SOME AREAS INDICATED AS CUT MAY ONLY CONSIST OF REMOVING THE TOPSOIL.

STOP - CALL BEFORE YOU DIG!

Miss Utility of West Virginia
 1-800-245-4848
 TICKETS: 1317043056 & 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 DEPICTION OF UTILITIES HEREON 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 MURRY AT 1-800-245-4848.

STATE OF WEST VIRGINIA
 17818
 AUG 11 2015

XTO ENERGY

810 HOUSTON STREET
 FORT WORTH, TX 76102

GRAPHIC SCALE 1" = 50'

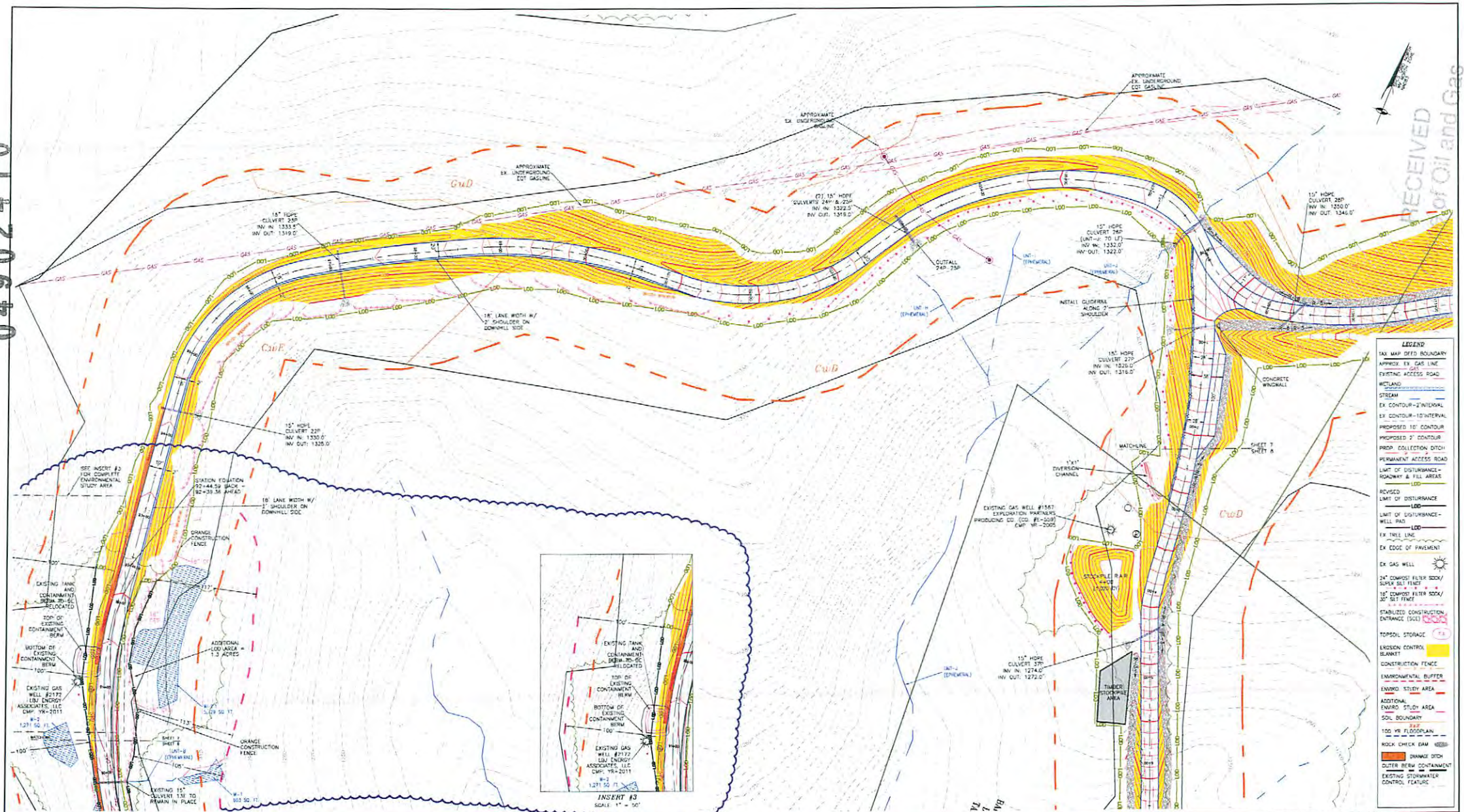
TRI-COUNTY ENGINEERING, LLC
 319 Pointerville Road
 Harlow, WA 15039
 Phone: (724) 833-0210 Fax: (724) 833-0676
 www.tricounteng.com

SEDIMENT CONTROL PLAN

ACCESS ROAD TO SWEARINGEN WELLS PAD

Scale: 1" = 50'
 Date: 8/22/14
 Client: WASHINGTON DISTRICT
 Project: WARRIOR COUNTY, WEST VIRGINIA
 Sheet: SHF 6
 File No: XTO-0042-22.24.20
 WTA #: 1205445

04902410



LEGEND

- TAX MAP DEED BOUNDARY
- APPROX EX GAS LINE
- EXISTING ACCESS ROAD
- WETLAND
- STREAM
- EX CONTOUR - 2' INTERVAL
- EX CONTOUR - 10' INTERVAL
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROP COLLECTION DITCH
- PERMANENT ACCESS ROAD
- LIMIT OF DISTURBANCE - ROADWAY & FILL AREAS
- REVISED LIMIT OF DISTURBANCE
- LIMIT OF DISTURBANCE - WELL PAD
- EX TREE LINE
- EX EDGE OF PAVEMENT
- EX GAS WELL
- 24" COMPOST FILTER SOCK/ SUPPLY SBT FENCE
- 18" COMPOST FILTER SOCK/ 30" SET FRAME
- STABILIZED CONSTRUCTION ENTRANCE (SCE)
- TOPSOIL STORAGE
- EROSION CONTROL BLANKET
- CONSTRUCTION FENCE
- ENVIRONMENTAL BUFFER
- ENVIRONMENTAL STUDY AREA
- ADDITIONAL ENVIRONMENTAL STUDY AREA
- SOIL BOUNDARY
- 100 YR FLOODPLAIN
- ROCK CHECK DAM
- DRAINAGE DITCH
- OUTLET BERM CONSTRUCTION
- EXISTING STORMWATER CONTROL FEATURE

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	WVDEP COMMENTS	1/5/14	AJD
2	WVDEP COMMENTS 2	2/23/15	AJD
3	ROAD REALIGNMENT	5/11/15	RAW

APPROVED
WVDEP OOG
 7/21/2015

NOTES

SEDIMENT CONTROL PLAN AND PERMIT NOTES:

- CONSTRUCTION ACTIVITIES THAT AFFECT STREAMS 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 BARRS TO MINIMIZE EROSION, AND DETOUR SEDIMENTATION TO STREAMS AND WETLANDS AND TO OFF-SITE UNAUTHORIZED AREAS.
- IF PROJECT CHANGES REQUIRE NEW PERMITS, CONSULT WITH THE PERMITTING/ENVIRONMENTAL ENGINEER PRIOR TO CONSTRUCTION IN THESE AREAS. PROJECT CHANGES, INCLUDING ANY LAND REQUIREMENTS OUTSIDE OF THE DEPICTED LIMIT OF DISTURBANCE, ADDITIONAL ACCESS ROADS, WORKSPACE, AND STORAGE AREAS USED FOR THE PROJECT.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO COORDINATE CROSSINGS & POSSIBLY RELOCATING.
- ENVIRONMENTAL FEATURES SHOWN OUTSIDE OF STUDY AREA ARE APPROXIMATED FROM WV GIS AVAILABLE MAPING & DATA DEVELOPMENT AGENCY.
- ALL CULVERT INSTALLATIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
- ALL PROPOSED ACTIVITIES TO BE DONE OUT OF THE FLOODPLAIN.
- ALL EXISTING GAS LINES TO BE CROSSED SHALL BE PROTECTED (CASINGS, ETC.) AND SHALL BE COORDINATED WITH UTILITY OWNER FOR CROSSING REQUIREMENTS.

STOP - CALL BEFORE YOU DIG!
 Miss Utility of West Virginia
 1-800-245-4648
 TICKETS: 1317043390 & 1317043251

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 MURRY AT 1-800-245-4648.



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



TRI-COUNTY ENGINEERING, LLC
 319 Rustic Road
 Huron, PA 15539
 Phone: (724) 835-0210 Fax: (724) 635-0676
 www.tri-countyeng.com

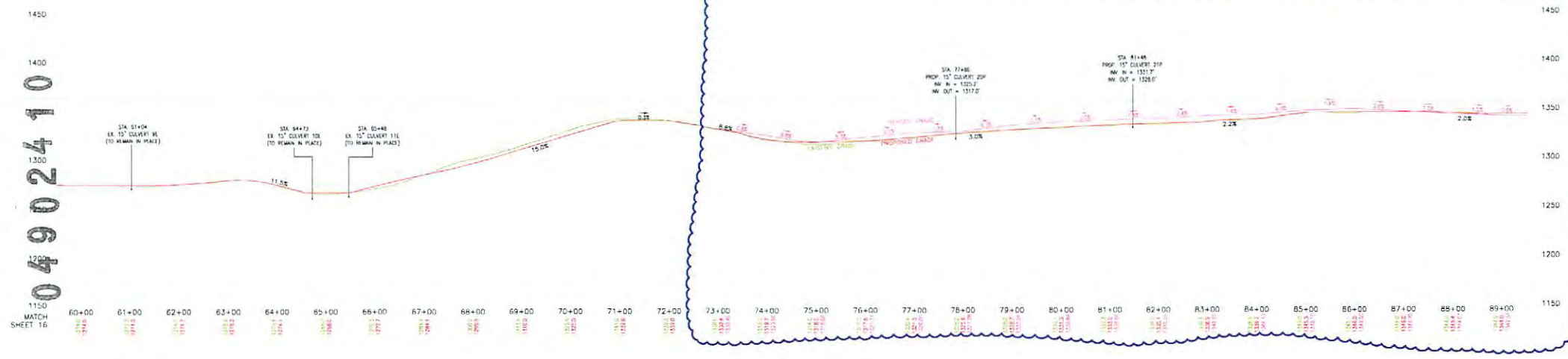
SEDIMENT CONTROL PLAN

ACCESS ROAD TO SWEARINGEN WELL PAD

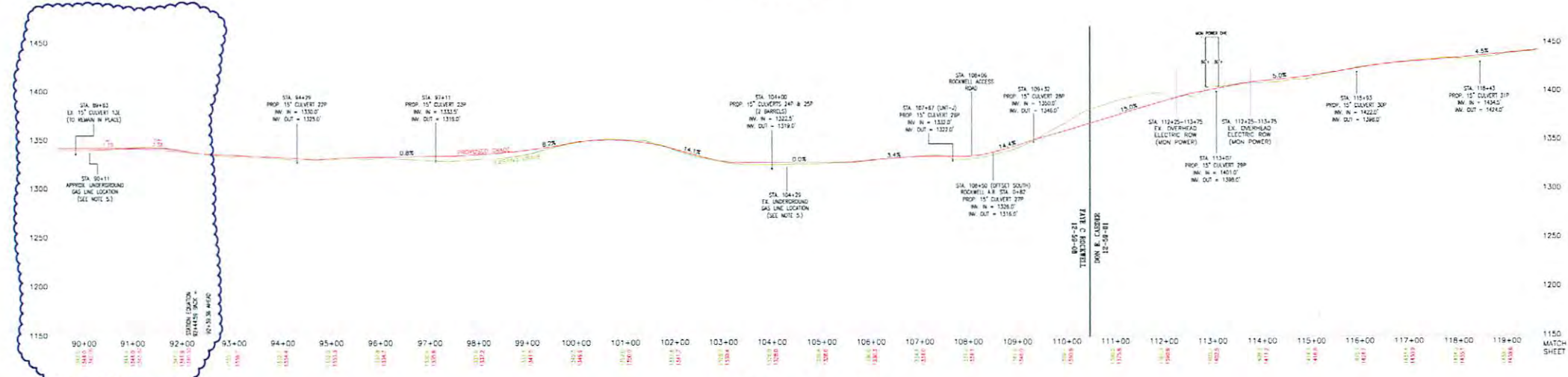
Drawn By	Date	MANAGEMENT DISTRICT	
ICL	8/22/14	MANION COUNTY, WEST VIRGINIA	
Scale	1" = 50'	File No.	
WEL#	1205445	SHT 7	KTD-0042-2324.75

RECEIVED
 WV Department of Environmental Protection
 SEP 8 2015
 WPH
 7/21/15

04902410



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



ACCESS ROAD PROFILE STA. 86+50-119+50
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 50'

RECEIVED
Office of Oil and Gas
SEP 08 2015
WV Department of Environmental Protection

REVISIONS

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

APPROVED
WVDEP OOG
 7/21/2015

SEDIMENT CONTROL PLAN AND PERMIT NOTES:

- CONSTRUCTION ACTIVITIES THAT AFFECT STREAMS 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 STEPS TO MINIMIZE EROSION AND SILTATION TO STREAMS AND WETLANDS, AND TO OBTAIN NECESSARY PERMITS.
- PROJECT CHANGES REQUIRE NEW PERMITS. CONSULT WITH THE PERMITTING/ENVIRONMENTAL ENGINEER PRIOR TO CONSTRUCTION. IN THESE NEW AREAS, PROJECT CHANGES INCLUDE ANY LAND DISTURBANCE OUTSIDE OF THE PERMITTED LIMITS OF DISTURBANCE, EVEN ADDITIONAL ACCESS ROADS AND PIPE STORAGE YARDS USED FOR THIS PROJECT.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO COORDINATE CROSSINGS & POSSIBLY RELOCATIONS.
- FOR EXISTING GAS LINES / UTILITY LINES AT ROAD CROSSINGS, THE EXISTING LINE HAS BEEN DEPICTED AS J 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: 1317043050 & 1317043051



XTO ENERGY
 810 HOUSTON STREET
 FORT WORTH, TX 76102



TRI-COUNTY ENGINEERING, LLC
 519 Parkersville Road
 Parkersville, PA 15650
 Phone: (724) 630-0210 Fax: (724) 630-0676
 www.tri-countyeng.com

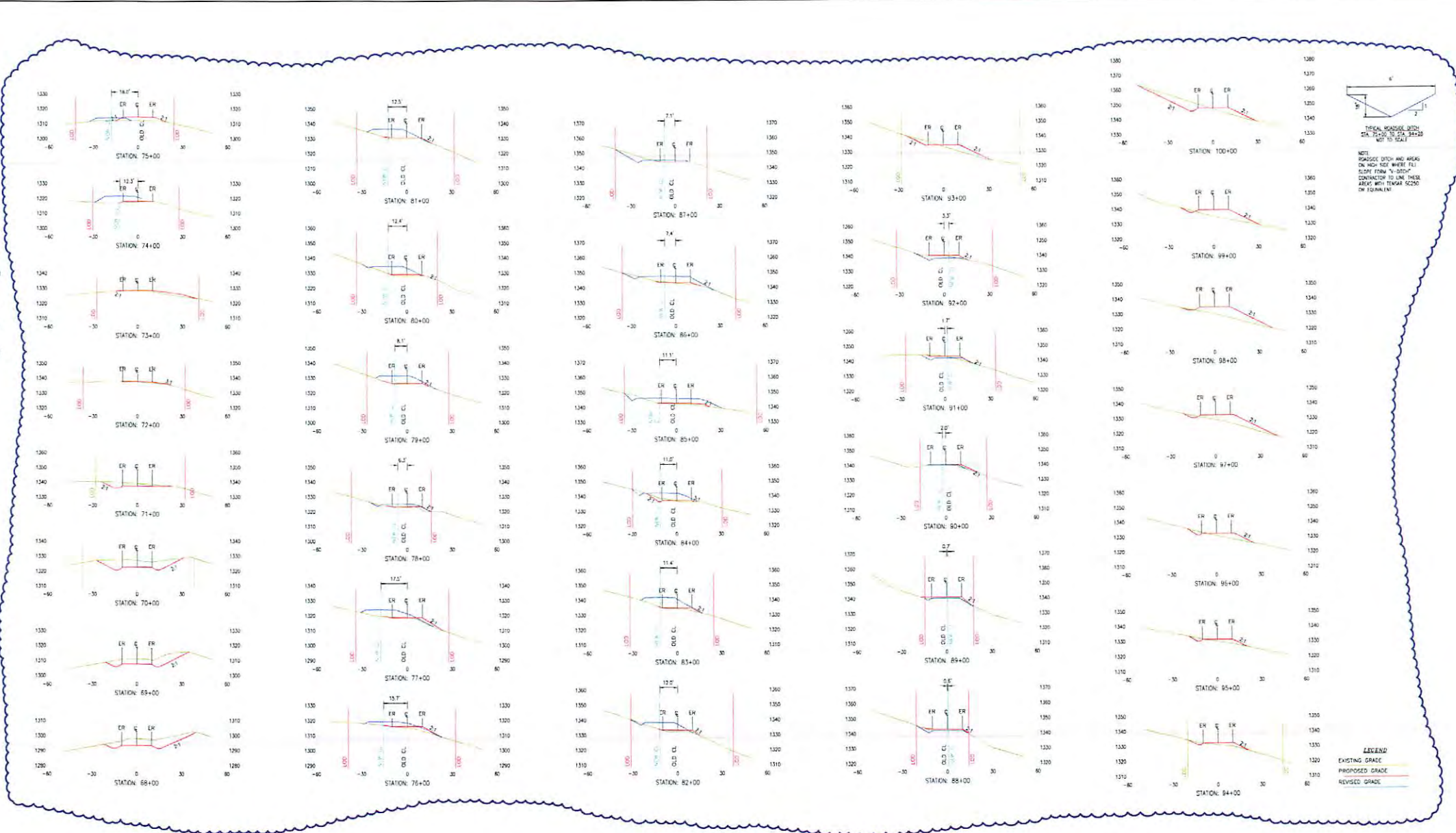
SEDIMENT CONTROL PLAN

ACCESS ROAD PROFILES

Drawn By:	AUG	Date:	7/30/14	Project:	MARION & HARRISON COUNTIES, WEST VIRGINIA
Scale:	AS NOTED	Sheet:	12	File No.:	XTO-0042-23.24.25
Job #:	1205445	Drawn:		Checked:	

8/11/2015

04902410



WRH
8-28-15

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ROAD REALIGNMENT	8/11/15	RAM

APPROVED
WVDEP OOG

 7/21/2015

STOP - CALL BEFORE YOU DIG!
 Miss Utility of West Virginia

 1-800-245-4948
 TICKETS: 1317042250 & 1317042251

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XTO ENERGY
 810 HOUSTON STREET
 FORT WORTH, TX 76102
 GRAPHIC SCALE 1" = 30'

TRI-COUNTY ENGINEERING, LLC
 319 Parkersville Road
 Parkersville, PA 15626
 www.tri-countyeng.com
 Voice: (724) 635-0210 Fax: (724) 635-0875

SEDIMENT CONTROL PLAN			
ACCESS ROAD CROSS SECTIONS			
Drawn By:	TCE	Date:	4/30/15
Scale:	1" = 30'	Sheet:	SH1 17
File No.:	X10-0542-23,24,25	Project:	MANNINGTON DISTRICT MARION COUNTY, WEST VIRGINIA
File #:	1205445	Drawn:	



Overlays basemap: none

Mining Layers

Permit Search Identify Layers

Layer	Permit Id	Name
underground mi		CONSOL NO 20

Attribute	Value
WVGES_COMM	
MIDS_URL	http://www.wvgs.wvnet.edu/www/
MAP_YEAR	1987
ST_AREA_SH	50687447.149
ZSORT	2095
COMPANY_NA	CONSOLIDATION COAL

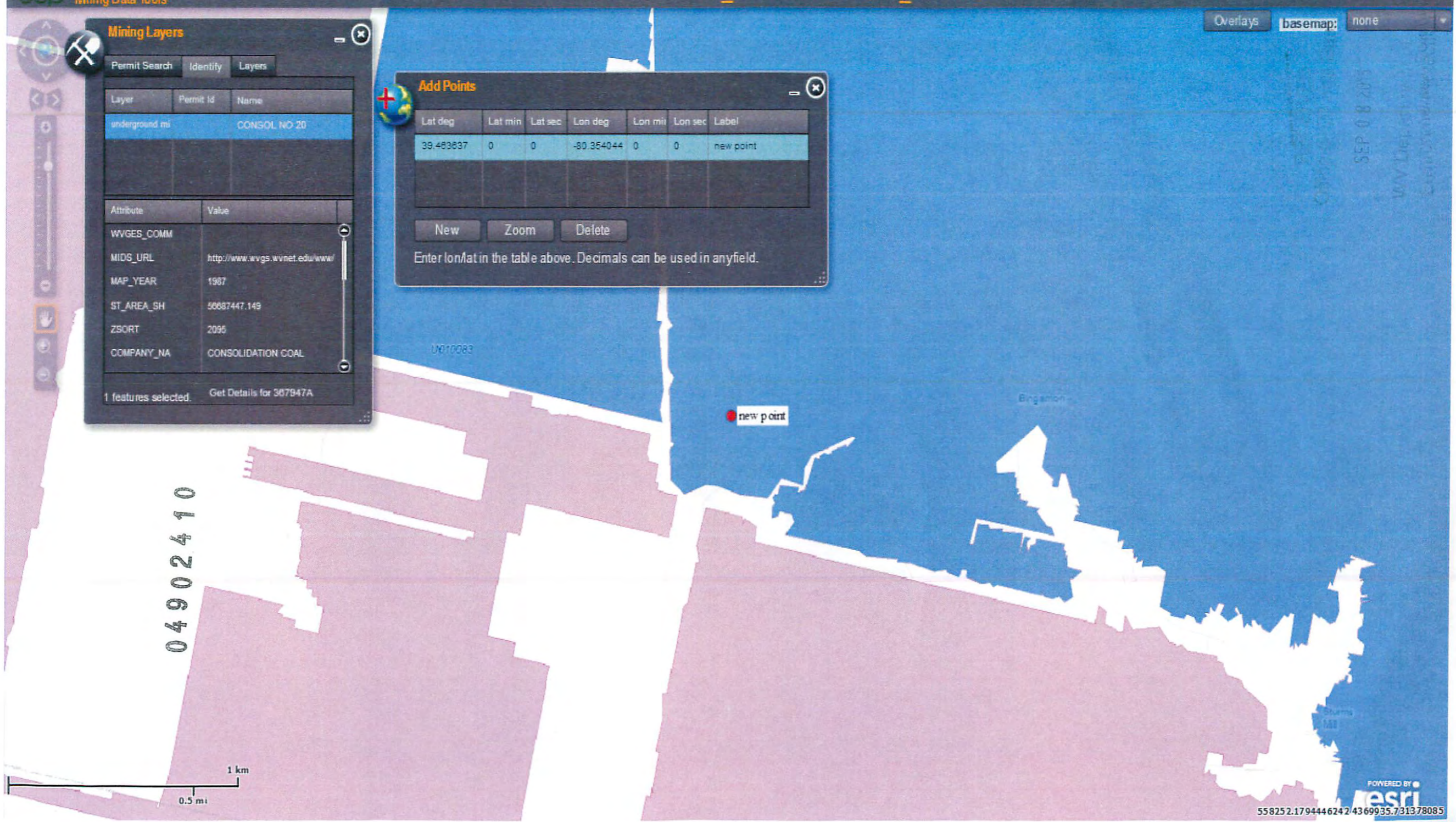
1 features selected. Get Details for 307947A

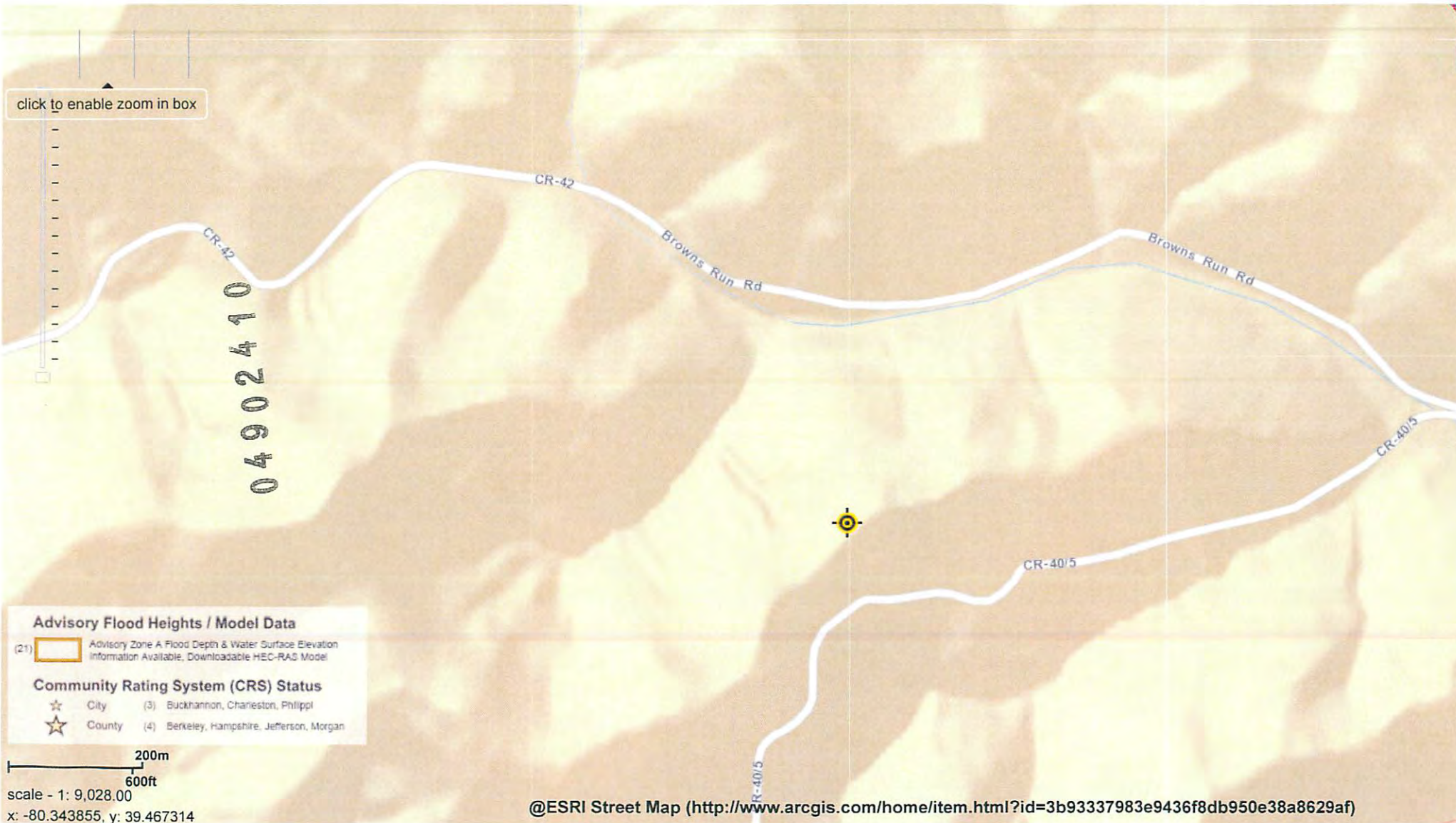
Add Points

Lat deg	Lat min	Lat sec	Lon deg	Lon min	Lon sec	Label
39.483637	0	0	-80.354044	0	0	new point

New Zoom Delete

Enter lon/lat in the table above. Decimals can be used in anyfield.





Advisory Flood Heights / Model Data

(21) Advisory Zone A Flood Depth & Water Surface Elevation Information Available. Downloadable HEC-RAS Model

Community Rating System (CRS) Status

- ☆ City (3) Buckhannon, Charleston, Philippi
- ☆ County (4) Berkeley, Hampshire, Jefferson, Morgan

Flood Hazard Area: Location is **NOT WITHIN** any identified flood hazard area. Unmapped flood hazard areas may present.

Flood Zone: N/A **Stream:** N/A

Watershed (HUC8): West Fork (5020002)

FEMA Issued Flood Map:
 54049C0180D (<https://msc.fema.gov/portal/viewProduct?filepath=/54/P/Firm/54049C0180D.png&productID=54049C0180D>)
 (<https://msc.fema.gov/portal/viewProduct?filepath=/54/P/Firm/54049C0180D.png&productID=54049C0180D>)

Map Effective Date: 6/19/2012

Contacts:
 Marion
 (<http://www.marion.gov/portal/content/wwCountyFloodplainMap>)

Advisory Flood Height: N/A

Water Depth: <http://www.marion.gov/portal/content/documents/AFHhe>

HEC-RAS Model: N/A

Flood Profile: N/A

CRS Information: N/A

Location (long, lat):
 (80.354032 W, 39.463638 N (<https://maps.google.com/maps?q=80.354032W+39.463638N>))

Elevation: About 1375 ft

Parcel Information: [Disclaimer](#)