

### 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: 47-4902409, 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.

Operator's Well No: SWEARINGEN 3H

Farm Name: CARDER, DON E.

API Well Number: 47-4902409

Permit Type: Horizontal 6A Well

Date Issued: 11/06/2015

API Number: 49-02409

### 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. <u>Failure to adhere to the specified permit</u> 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)

API NO. 47		
<b>OPERATOR WEL</b>	L NO.	Swearingen 3H
Well Pad Name	Swear	ingen 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: Swearingen 3H	Well F	Pad Name: S	wearingen Pa	d
3) Farm Name/Surface Owner: Don Carder	Public R	oad Access:	Harrison County R	t. 3 (Robinson Wyatt Run)
4) Elevation, current ground: 1,374'	Elevation, propose	ed post-constr	uction: 1,376'	
5) Well Type (a) Gas X Oil	Ur	nderground St	orage	· · · · · · · · · · · · · · · · · · ·
Other				
(b)If Gas Shallow X	Deep			
Horizontal X				
6) Existing Pad: Yes or No No				
<ol> <li>Proposed Target Formation(s), Depth(s), Ar Target Formation: Marcellus, Depth 7,600', Ar</li> </ol>	•	•	` '	,650 psi
8) Proposed Total Vertical Depth: 7,600'				
9) Formation at Total Vertical Depth: Marce	llus			
10) Proposed Total Measured Depth: 13,600	)'			
11) Proposed Horizontal Leg Length: 5,590'				
12) Approximate Fresh Water Strata Depths:	70', 600'			
13) Method to Determine Fresh Water Depths:	Offsetting Repo	rts		
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 s directly overlying or adjacent to an active mine			No X <sup>Office o</sup>	ECEIVED  J Oil and Gas
(a) If Yes, provide Mine Info: Name:				[P 0 8 2015
Depth:			WV C	epartment of
Seam:			Environm	renæl Protection
Owner:				
	10	RH -1-15		
	9	-1-15		

WW-6B (04/15)

04902409 API NO. 47-\_\_\_\_

OPERATOR WELL NO. Swearingen 3H

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	J-55	36	3,230	3,230	1,315
Production	5.5	New	J-55	20	13,600	13,600	Lead 2,263'/Tail 6,000'
Tubing							
Liners							

8-29-15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (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	6170	50:50 POZ /Class H Tail	1.13 / 1.18
Tubing							
Liners							

### **PACKERS**

Kind:	
Sizes:	
Depths Set:	
	DECENTED

Office of Oil and Gas

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API NO. 47-OPERATOR WELL NO. Swearingen 3H Well Pad Name: Swearingen Pad

19) Describe proposed well work, including the drilling and plugging back of any pilo
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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 maximum pressure and rate used is 10,000 psig and 120 bpm. The sand size may vary from 100 mesh to30/50 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 A	rea to be	disturbed,	including roa	ds, stockpile area	, pits, etc.	(acres):	43.335+/-
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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. RECEIVED

\*Note: Attach additional sheets as needed.

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### **Swearingen 3H – Mine Void Encounter Plan**

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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 95/8" intermediate casing at ~3230'.

Morgan O'Brien Drilling Engineer XTO Appalachia Cell: 724-272-8097

Morgan\_OBrien@xtoenergy.com

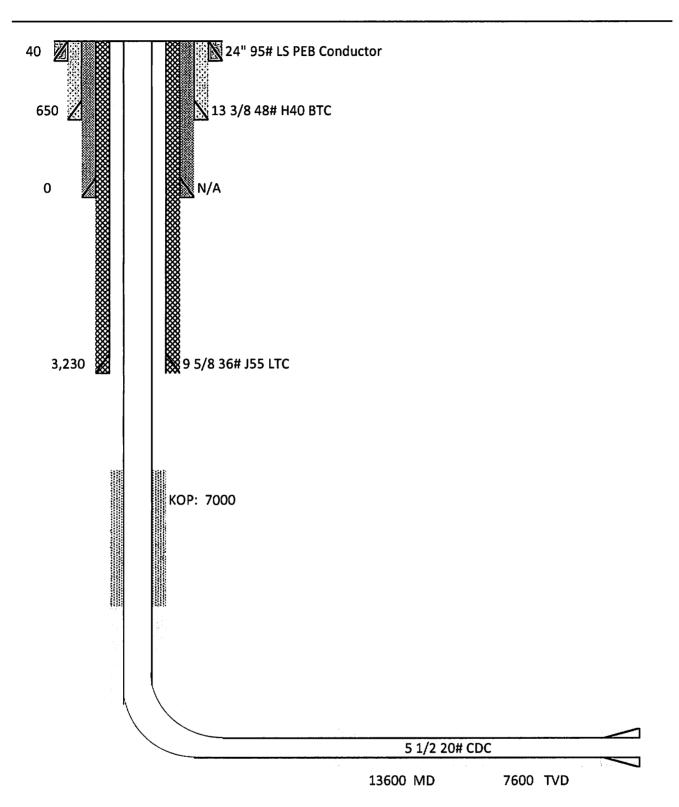
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### **Swearingen 3H** Marion County, West Virginia





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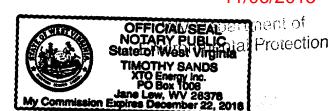
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API Number 47 - 04 9 0 2 4 0 9
Operator's Well No. Swearingen 3H

### 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	lete the proposed well work? Yes No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste:  Will a synthetic liner be used in the pit? Yes	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
	t Number
Reuse (at API Number	
Off Site Disposal (Supply form WW	7-9 for disposal location)
Other (Explain	
Will closed loop system be used? If so describe: Depending on brand,	, system would entail 2 centrifuges & enother cutting drying method: grinder, drying shakers or verti-g mud.
	al)? Air, freshwater, oil based, etc. Air/water to 7100', then switch to synthetic
-If oil based, what type? Synthetic, petroleum, etc. Sy	
Additives to be used in drilling medium? See additional page	
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. Landill
	used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? Meadowbrook	k Landfill - #SWF 1032
	Gas of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Vi provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, based	conditions of the GENERAL WATER POLLUTION PERMIT issued reginia Department of Environmental Protection. I understand that the f any term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this d on my inquiry of those individuals immediately responsible for rue, accurate, and complete. I am aware that there are significant elity of fine or imprisonment.
Company Official Title Production Superintendent	
Company Official Fillo	
Subscribed and sworn before me this 271 day of A	notary Public Office of Chi and Cas
My commission expires / -/2 ->/ 18	- //r
, commonion expires	SEP 9 2/06/2015



## 04902409

Form WW-9 Operator's Well No. Swearingen 3H 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: Bull New Lesses Comments:

Title: INVITOMENTAL T NSPECTOY Date: 8-28-15

Field Reviewed?

### **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 H<sub>2</sub>S 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 (H<sub>2</sub>S)

- 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  $H_2S$  personnel training provided (35-8 5.7.e.2)
- C. Method to notify the OOG of H<sub>2</sub>S 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)

Page 2 of 5

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### 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<sub>ref</sub> - radius ellipse of uncertainty on reference well

URoff - radius ellipse of uncertainty on offset well

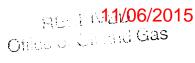
Note: ellipses are half-axes or radii.

- \*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	<b>Extreme collision risk</b>
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 ≥ 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 <u>any fractured or any producing well</u> 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.

Page 4 of 5

11/06/2015

THEO: IVED Office of Oil and Gas

### **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.

Page 5 of 5

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# XTO Energy Inc. Well Site Safety Plan

Swearingen 3H Swearingen Pad 04902409

39.463754 -80.353989

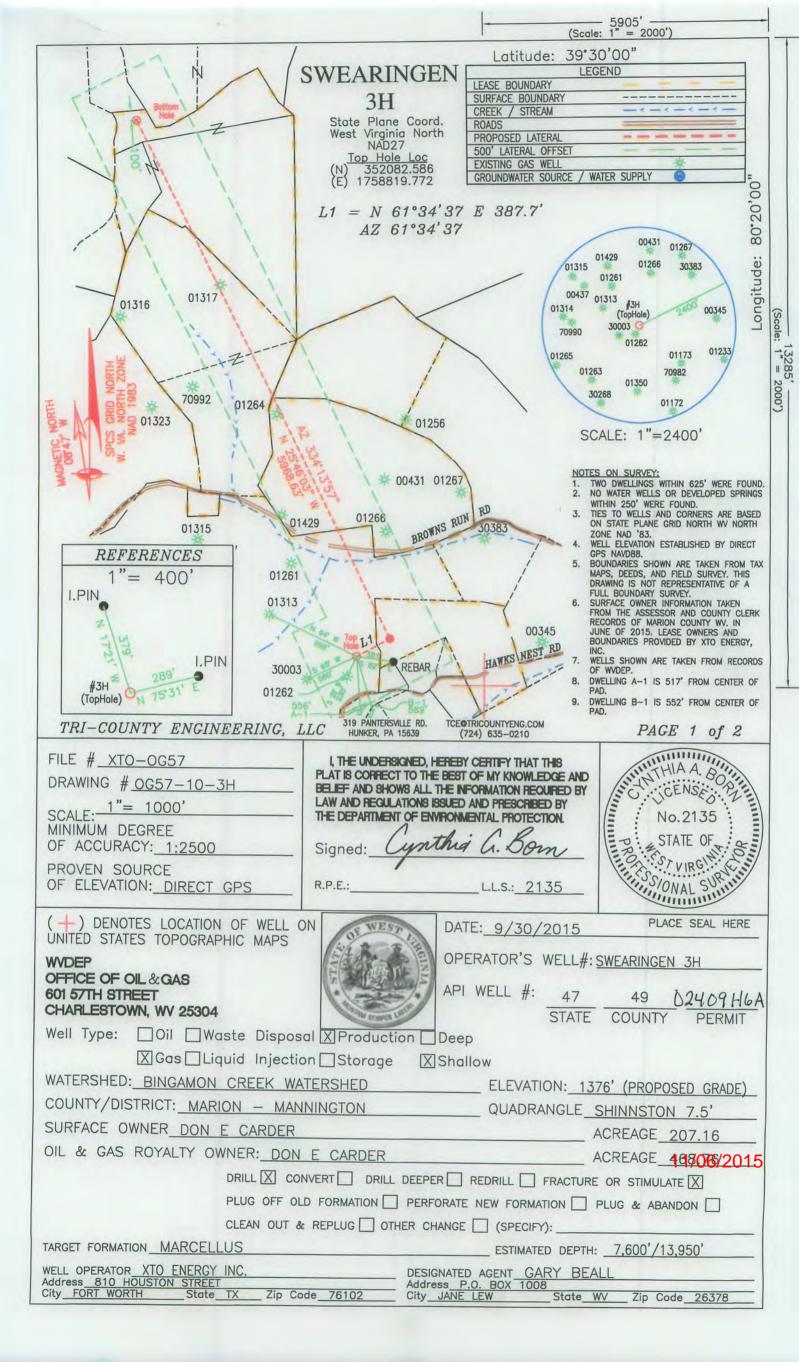
320 Hawks Nest Rd. Mannington, WV 26582

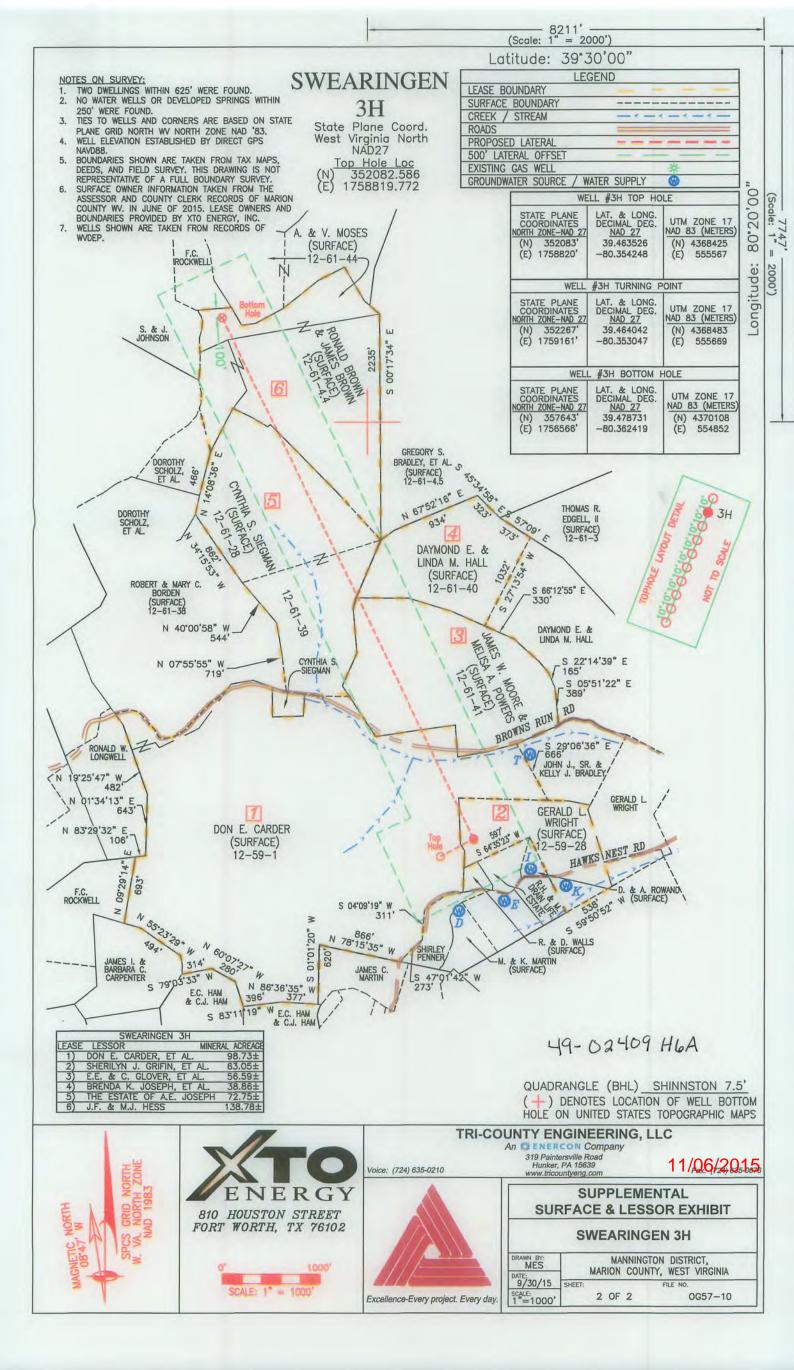
4.28.15

RECE<mark>11/06/2015</mark> Office of Oil and Gas

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VVV Department of Environmental Protection





# 04902409

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(5/13)	

Operator's	Well No.	Swearingen 3H
•		·

### 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 of Number	r 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	Sherilyn Griffin & William Griffin et al	XTO Energy Inc.	1/8	1106/95
3	Emest Glover & Charlotte Gover et al	Exploration Partners, LLC	1/8	960/990
4	Brenda K. Joseph et al	XTO Energy Inc.	1/8	1097/20
5	The Estate of Alice E. Joseph	XTO Energy Inc.	1/8	1097/24
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:	m
Its:	Production Superintendent

Page 1 of \_\_\_\_

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### **SWEARINGEN 3H**

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.
0)	1108	456	Bernard C. Cole	XTO Energy Inc.
0	1106	143	Brenda J. Messenger and Virgil L. Messenger	XTO Energy Inc.
7	1105	389	Clarilynne B. Salai	XTO Energy Inc.
2	1104	92	Donald G. Cunningham and Allen R. Cunningham	XTO Energy Inc.
0	1105	374	Edna L. Kaase	XTO Energy Inc.
<b>O</b>	1106	392	Ethel D. Dye	XTO Energy Inc.
4	1106	80	Gary L. Taylor	XTO Energy Inc.
0	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.
	942	189	Ruth Barker	Trio Petroleum Corp.
				Trio merged into Waco Holding at
	1			56-879, merged to Waco Oil and Gas at 56-
	1	1		889, to Linn Energy at 25-638, and to XTO
		<u></u>		Energy at 33-200.

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3	960	990	Ernest E. Glover and Charlotte Glover (wife)	Exploration Partners, LLC
]	300	] 330	Linest L. Giover and Charlotte Giover (wile)	
				Exploration Partners assigns all depths from the surface to the bottom of the uppermost
				1
6				member of the Onondoga Group to Linn
0				Energy at 32-151, and Linn assigns the same
<b>-</b>				to XTO Energy at
				33-200.
0	968	773	Exploration Partners, LLC	Exploration Partners, LLC
) တ				Exploration Partners assigns all depths from
<b>1</b>				the surface to the bottom of the uppermost
				member of the Onondoga Group to Linn
				Energy at 32-151, and Linn assigns the same
				to XTO Energy at
				33-200.
	1097	20	Brenda Kay Joseph, a single woman, by Robert Thomas	XTO Energy Inc.
			Joseph as duly qualified attorney-in-fact as evidenced by	
			that certain POA recorded at Book 63, Page 38,	
			Recorder's Office, Marion County, West Virginia	
	1097	16	Robert Thomas Joseph, a married man dealing in his	XTO Energy Inc.
			sole and separate property	
	1097	681	Dorothy T. Stauffer f/k/a Dorothy T. Joseph, a single	XTO Energy Inc.
			woman	
	965	937	Alice E. Joseph (single)	Exploration Partners, LLC
1				Exploration Partners assigns all depths from
1				the surface to the bottom of the uppermost
1				member of the Onondoga Group to Linn
1				Energy at 32-151, and Linn assigns the same
1				to XTO Energy at
				33-200.
	<del></del>	<u>.</u>	<u> </u>	
4	1097	20	Brenda Kay Joseph, a single woman, by Robert Thomas	XTO Energy Inc.
			Joseph as duly qualified attorney-in-fact as evidenced by	1
			that certain POA recorded at Book 63, Page 38,	
			Recorder's Office, Marion County, West Virginia	
			(not subject to Alice Joseph OGL at 965-937)	
				<u> </u>

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XTO Energy Inc.	The Estate of Alice Elizabeth Joseph, by Robert Thomas Joseph, acting as Administrator de bonis non cum testament annexo	24	1097	5
200.				
Linn assigns the same to XTO Energy at 33-				
Energy at 32-151, and				
member of the Onondaga Group to Linn				
the surface to the TOP of the uppermost				
Exploration Partners assigns all depths from				
Exploration Partners, LLC	Daymon E. Hall and Linda M. Hall (wife)	1006	941	
200.				
Linn assigns the same to XTO Energy at 33-				
Energy at 32-151, and				
member of the Onondaga Group to Linn				
the surface to the TOP of the uppermost				
Exploration Partners assigns all depths from				
Exploration Partners, LLC	Ernest E. Glover and Charlotte A. Glover, wife	48	964	
200.				0
Linn assigns the same to XTO Energy at 33-				4
Energy at 32-151, and				9
member of the Onondaga Group to Linn				0
the surface to the TOP of the uppermost				2
Exploration Partners assigns all depths from				<b>4</b>
Exploration Partners, LLC	Alice E. Joseph (single)	937	1097	0
	(not subject to Alice Joseph OGL at 965-937)			9
	woman			
XTO Energy Inc.	Dorothy T. Stauffer f/k/a Dorothy T. Joseph, a single	681	1097	
	(not subject to Alice Joseph OGL at 965-937)			
or or circle A mic.	sole and separate property	ė		
XTO Energy Inc	Robert Thomas Joseph, a married man dealing in his	16	1097	

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6	111	4	J. F. Hess and M. J. Hess, his wife	The Burt Oil Co. of Mannington
				Burt Oil Company assigns all interest to
		1		Hope Natural Gas Company at 186-408.
				Hope Natural Gas Company assigns all
				interest to Consolidated Gas Supply
				Corporation at 680-35. Consolidated Gas
				Supply Corporation assigns all interest to
				<b>Consolidated Gas Transmission Corporation</b>
		 		at 9-912. CNG Transmission Corporation,
Ì				as successor-in-interest to Consolidated Gas
				Transmission Corporation by name change
				as filed with the WV SOS 1/13/1988, assigns
				all interest to Eastern States Oil & Gas, Inc.
þ				(predecessor-in-interest to EQT Production
				Company) at 16-993. EQT Production Co.
				assigns to XTO Energy Inc. from 300ft above
P				the TOP of the Tully Formation down to
				100ft below the TOP of the Onondaga
				Formation at 45-444.

Onice of Charles See Onice of Servicing See Onice of Servicing Services of Servi

## West Virginia Secretary of State — Online Data Services

### **Business and Licensing**

Online Data Services Help

### **Business Organization Detail**

04902409

NOTICE: The West Virginia Secretary of State's Office makes every reasonable effort to ensure the accuracy of information. However, we make no representation or warranty as to the correctness or completeness of the information. If information is missing from this page, it is not in the The West Virginia Secretary of State's database.

### DOMINION TRANSMISSION, INC.

Organization Information								
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
C   Corporation	1/17/1984	-	1/17/1984	Foreign	Profit			

Business Purpose	4862 - Transportation and Warehousing - Pipeline Transportation - Pipeline Transportation of Natural Gas	Capital Stock	0.0000
Charter County		Control Number	0
Charter State	DE	Excess Acres	0
At Will Term		Member Managed	
At Will Term Years		Par Value	0.0000
Authorized Shares	0		

Addresses		
Туре	Address	
Local Office Address	5400 D BIG TYLER ROAD CHARLESTON, WV, 25313	
Mailing Address	445 WEST MAIN STREET CLARKSBURG, WV, 26301 USA	11/06/20
Notice of Process Address	CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV, 25313	RECEIVED Office of Oil and Gas
Principal Office	445 WEST MAIN STREET	SEP 0 8 2015

	Address	CLARKSBURG, WV, 26301 USA	04902409
Туре	the second secon	Address	

Officers	
Туре	Name/Address
Director	PAUL D. KOONCE 120 TREDEGAR STREET RICHMOND, VA, 23219
President	DIANE LEOPOLD 120 TREDEGAR STREET RICHMOND, VA, 23219
Secretary	CARTER M REID 100 TREDEGAR STREET 2ND FL. RICHMOND, VA, 23219
Treasurer	G. SCOTT HETZER 100 TREDEGAR STREET 5TH FL. RICHMOND, VA, 23219
Vice-President	ARNOLD J. JORDAN, JR. 100 TREDEGAR STREET RICHMOND, VA, 23219
Туре	Name/Address

Name	e Changes		
Date		Old Name	
	5/10/2000	CNG TRANSMISSION CORPORATION	
Date		Old Name	

Mergers				
Merger Date	Merged	Merged State	Survived	Survived State
1/16/2002	CNG POWER COMPANY	DE	DOMINION TRANSMISSION, INC.	DE
Merger Date	Merged	Merged State	Survived	Survived State

Date	Amendment
1/16/2002	MERGER: MERGING CNG POWER COMPANY, A QUALIFIED DE CORPORATION WITH AND INTO DOMINION TRANSMISSION, INC., A QUALIFIED DE CORPORATION, THE SURVIVOR
5/10/2000	NAME CHANGE: FROM CNG TRANSMISSION CORPORATION
12/2/1994	CHANGE TO AMEND STOCK IN ARTICLES OF CERTIFICATE PO 20 AUTHORITY.
3/22/1993	CHANGE TO AMEND STOCK DESIGNATION IN ARTICLES OF CERTIFICATE OF AUTHORITY.  RECEIVED
8/27/199	AMENDMENT TO CERTIFICATE OF AUTHORITY: Of Cit and Gas
12/19/199	AMENDMENT TO CERTIFICATE OF AUTHORITY. SEP @ 8 2015

	1/13/1988	CHANGE OF NAME FROM: CONSOLIDATED GAS TRANSMISSION CORPORATION.
Date		Amendment

		04902409
Annual Reports		
Date	Filed For	
6/15/2015	2016	
6/13/2014	2015	
6/14/2013	2014	
5/31/2012	2013	
5/27/2011	2012	
6/9/2010	2011	
6/22/2009	2010	
8/14/2008	2009	
11/1/2007	2008	
12/11/2006	2007	
9/29/2005	2006	
4/25/2005	2005	
5/14/2004	2004	
4/29/2003	2003	
11/5/2001	2002	
12/1/2000	2001	
	2000	
	1999	
	1998	
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	1996	
	1995	
	1994	
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	1992	
	1991	
	1990	11/06/20
	1989	
Date	Filed For	RECEIVED Office of Oil and Gas

For more information, please contact the Secretary of State's Office at 30495880005

8/18/2015

Tuesday, August 18, 2015 — 10:19 AM

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Office of Oil and Gas

Kevin M. Pierson Contract Landman 714 Venture Drive #187 Morgantown, WV 26508 Phone 469-767-7262

### LANDMAN'S STATEMENT AS OF AUGUST 21, 2015

On August 9<sup>th</sup> and 10<sup>th</sup>, 2015, the writer traveled to the West Virginia Department of Transportation, Division of Highways for District 4, and Office of the Clerk of Marion County, West Virginia to investigate and inquire into the ownership and/or right-of-ways or easements for the certain County Road described as County Road 42, (a/k/a Browns Run Road), located in Mannington District, Marion County, West Virginia. The examination and investigation pertained more specifically to one tract of land which the subject County Road goes through, containing a 207.16 acre tract, presently described as Mannington District 12, Tax Map 59, Parcel 1.

On August 10, 2015, the writer examined the sheet for County Road 42, (a/k/a Browns Run Road), from the Straight Line Book maintained by the West Virginia Department of Transportation, Division of Highways for District 4. The sheet indicated on plans or deeds references for the subject road.

On August 9<sup>th</sup> and 10<sup>th</sup>, 2015, the writer carefully examined the records contained in the Office of the Clerk of Marion County, West Virginia in regards to right-of-ways or easements granted by the owners of the subject properties back to the year 1842. No records were found granting the County or State a right-of-way, easement or fee simple interest, or otherwise for the subject road. The owners of the subject properties did grant some pipeline right-of-ways with the rights of a road to maintain such pipeline, however the descriptions did not match up with the direction of the road.

Based on the above described examination and investigation, it is the writer's opinion from all known evidence that there does not appear to be a right-of-way, easement, or conveyance of any sort for that certain portion of the County Road described as County Road 42, (a/k/a Browns Run Road), located in Mannington District, Marion County, West Virginia, and located on the above described tract of land.

Kevin M. Pierson Landman

11/06/2015

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WV Deportment of Environmental Protection

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION A A D A 2 A D A

Date of Notic	e Certification: 8/3[/[5		API No. 47	V43V	Z 7 V 3
				Well No. Swea	ringen 3H
				ame: Swearing	
Notice has b	een given:				
	e provisions in West Virginia Code	§ 22-6A, the Operator has provi	ded the req	uired parties w	ith the Notice Forms listed
	tract of land as follows:			•	
State:	West Virginia	UTM NAD 83	Easting:	555567	
County:	Marion	OTMINAD 83	Northing:	4368425	
District:	Mannington	Public Road Acces	ss:	Harrison County I	Rt. 3 (Robinson Wyatt Run)
Quadrangle:	Shinnston 7.5'	Generally used far	m name:	Don Carder	
Watershed:	Bingamon Creek				
information re of giving the requirements Virginia Code	ed the owners of the surface description deduction to the subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen to \$22-6A-11(b), the applicant shall have been completed by the applicant	ection sixteen of this article; (ii) urvey pursuant to subsection (a of this article were waived in a tender proof of and certify to the	that the red ), section t writing by	quirement was en of this artic the surface ow	deemed satisfied as a result cle six-a; or (iii) the notice oner; and Pursuant to West
	West Virginia Code § 22-6A, the Orator has properly served the requir		is Notice C	ertification	
*PLEASE CHE	CK ALL THAT APPLY				OOG OFFICE USE ONLY
☐ 1. NO1	TICE OF SEISMIC ACTIVITY OF	NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
■ 2. NO	FICE OF ENTRY FOR PLAT SUR	VEY or D NO PLAT SURVE	Y WAS CO	ONDUCTED	☐ RECEIVED
☐ 3. NO	FICE OF INTENT TO DRILL or	■ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR POWER OF WAS CONDUCTED OF			☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFAC	CE OWNER	
■ 4. NO	ΓΙCE OF PLANNED OPERATION	ſ			☐ RECEIVED
■ 5. PUE	BLIC NOTICE				☐ RECEIVED
■ 6. NO	TICE OF APPLICATION				□ RECEIVED

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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VMV Densitiators of Environment... Phile blion

# 04902409

WW-6AC (1/12)

### Certification of Notice is hereby given:

THEREFORE,	I Gary Bear , nav	e read an	a unaerstana	the notice requirements within west virginia code g	, 22-
				erved the attached copies of the Notice Forms, identi	
above, to the re	equired parties through personal servi-	ce, by re	gistered mail	or by any method of delivery that requires a receip	ot or
signature confir	mation. I certify under penalty of law	that I hav	e personally	examined and am familiar with the information submi	itted
in this Notice	Certification and all attachments, an	d that ba	sed on my i	inquiry of those individuals immediately responsible	for
obtaining the in	formation, I believe that the information	on is true	, accurate and	d complete. I am aware that there are significant pena	lties
	alse information, including the possibil				
Well Operator:	XTO Energy Inc.		Address:	PO Box 1008	
By:	in			Jane Lew, WV 26378	
Its:	Production Superintendent		Facsimile:	304-884-6809	
Telephone:	304-884-6000		Email:		
•		<del></del>			
	OFFICIAL SEAL	ן		21 1 42610	
No.	NOTNOTARY PUBLIC	Subscr	ribed and swo	orn before me this 31 day of August 2015	
	State of West Virginia			OT- N. V	
	TIMOTHY SANDS			Notary Publi	C
	XTO Energy Inc. PO Box 1008			100/10	
	Jane Lew, WV 26378	My Co	ommission Ex	xpires 12/22/18	
I SMV Com	mission Expires December 22, 2018	1			

### 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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

11/06/2015

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V/V Department of Environmental Protection

OFFICIAL SEA!

NOTARY PUBLIC
State of West Virginia
TIMOTHY SANDS
ATO Energy Inc.
Jane Lew. Wy 26378
My Commission Expires December 22, 2018

WW-6A (9-13)

API NO. 47-			
OPERATOR	WELL	NO.	Swearingen 3H
Well Pad Nar	ne: Swe	aringe	n 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	8/15
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	ROVAL FOR THE IN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10(	(b)
	DD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
certificate of approval for the construction of an impoundment or pit registered mail or by any method of delivery that requires a receipt or sediment control plan required by section seven of this article, and the the surface of the tract on which the well is or is proposed to be located oil and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursuant operator or lessee, in the event the tract of land on which the well promore coal seams; (4) The owners of record of the surface tract or trace well work, if the surface tract is to be used for the placement, construint impoundment or pit as described in section nine of this article; (5) A have a water well, spring or water supply source located within one to provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section expression of this article to the contrary, notice to a lien holder is not to	r signature confirmation, copies of the application, the erosion and he well plat to each of the following persons: (1) The owners of record of ted; (2) The owners of record of the surface tract or tracts overlying the the surface tract is to be used for roads or other land disturbance as not to subsection (c), section seven of this article; (3) The coal owner, apposed to be drilled is located [sic] is known to be underlain by one or cuts overlying the oil and gas leasehold being developed by the proposed action, enlargement, alteration, repair, removal or abandonment of any my surface owner or water purveyor who is known to the applicant to housand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the extenants in common or other co-owners of interests described in the may serve the documents required upon the person described in the light, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. ovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
☑ 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	☑ 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
Address: 931 Joetown Rd.  Mannington, WV 26582  Name: Fara May Webb  Address: 1084 Joetown Rd.  Mannington, WV 26582   SURFACE OWNER(s) (Impoundments or Pits)	AND/OR WATER PURVEYOR(s) Name: John & Kelly Bradley Address: 44 Hawks Nest Rd. Mannington, WV 26582  DOPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name:Address:	Name:Address: *Please attach additional forms if necessary

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	Swearingen/Hackett	,		
Landowners	Don Carder, 245 Harmony Grove Rd., Grafton, WV 26345			
	David Webb, 931 Joetown Rd., Mannington, WV 26582	1		
	Fara May Webb, 1084 Joetown Rd, Mannington, WV 26852	V		
	Faye Rockwell, 316 East Run Rd., Farmington, WV 26571	/		
	Gerald Lucas Heirs, 1457 Wyatt Rd., Mannington, WV 26582	V		
	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	1		
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	<b>√</b>		
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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WV Department of Environmental Protection 201500013433
JUCI
311 SOUGH CENTRAL AVENUE
SUITE 102
CANNONSBURG PALL

API NO. 47- 049 - 02409
OPERATOR WELL NO. Swearingen 3H
Well Pad Name: Swearingen

### STATE OF WEST VIRGINIA OTECTION OFFICE OF OIL AND GAS

	VELL LOCAT			of West Virginia to conduct oil or gas well
work. Please	be advised that well work permits a	re valid for twenty-four	(24) months.	
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T Michael Martin	& Kathy Martin hereby state that	I I and the Instruct	ione to Persons Na	med on Page WW-6A and the associated
11/11/ 6 A and	attachments consisting of pages on the well plat, all for proposed well	e (1) inrough	, morading the	erosion and sediment control plan, if
State:	West Virginia	UIMIN	AD 03 Easting.	555567
County:	Marion		AD 83 Northing:	4368425
District:	Mannington	Public R	oad Access:	Harrison County Rt. 3 (Robinson Wyatt Run)
Ouadrangle:		Generall	ly used farm name:	Don Carder
	e that I have no objection to the pla	nned work described in	these materials, an	d I have no objection to a permit being Virginia Code § 22-6A-12(a).
issued on the	se materials and I therefore waive	all well site restrictions		
WELL SIT	E RESTRICTIONS BEING WAI	VED	FOREARCO	HON DI A MAI CHARLE
	k all that apply		Signature:	Mary Martin & Kathy Martin
- armami	NIC WATER WELLS		Print Name: M	ichael Martin & Kathy Martin
LI EXISTI	NG WATER WELLS		Date: Date:	30 - 20 /5 TION BY A CORPORATION, ETC.
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LI AGRIC	ULTURAL BUILDINGS		Date:	
	Description Description	Sic	enature: ball	12
	or: XTO Energy Inc. Prepared by:	Te	lephone: 403-3	30-0992
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	AND STATE OF THE PARTY OF THE P	0.1 . 7 - 1 - 1 - 1 - 1	vorn before the uns	Co day or Carrier
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JANICE COSCO, COUNTY CEE
10-30-2015 At 01:04 pm.
MAIVER DEED 16-00
STATE TAX .00
COUNTY TAX .00
Book 1180 Pase 848 -848 201500013432 JWC1 311 SOUGH CENTRAL AVENUE SUITE 102 CANNONSBURG PA.17 (C11)

API NO. 47- 049 - 02409
OPERATOR WELL NO. Swearingen 3H
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

state:	West Virginia	UTM NAD 83 Easting:	555567
County:	Marion	UTM NAD 83 Northing:	4368425
District:	Mannington	Public Road Access:	Harrison County Rt. 3 (Robinson Wyatt Run)
Quadrangle:	Shinnston	Generally used farm name:	Don Carder
Vatershed:	Bingamon Creek (0502000206)	T	
turther state	that I have no objection to the planned w	ork described in these materials, and	I have no objection to a permit being
ssued on thos	se materials and I therefore waive all well	site restrictions listed under West V	Virginia Code § 22-6A-12(a).
VELL SITE	RESTRICTIONS BEING WAIVED		TION BY A NATURAL PERSON
Please check	all that apply	Signature:	
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I EMIDIT	TO WATER WEELS	Date: / O	30/2015
DEVEL	OPED SPRINGS		TION BY A CORPORATION, ETC.
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y: Janual		Telephone: 903	330-0992
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[·//	KEITH D. CAPPB	Kenl D. Car	Notary Pub
	66 Industrial Paris Rd, Jane Law, WV 28378 commission applies April 18, 2022	10000	Notary 1 ub
	My	Commission Expires April	2/ 4/2

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@ww.gov.

201500013432
Filed for Record in MARION CDUNTY, WV
JANICE COSCO; CDUNTY CLERK
10-30-2015 At 01:04 pm.
WAIVER DEED 16.00
STATE TAX .00
COUNTY TAX .00
Book 1180 Page 847 - 847

WW-6A (8-13)

API NO. 47	
OPERATOR WELL NO.	Swearingen 3H
Well Pad Name: Swearinger	Pad

#### Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

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

### **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

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Office of Office and Gas

SEP 0 8 2015

WV Department of Environmental Protection

# 04902409

WW-6A (8-13) API NO. 47-\_\_\_OPERATOR WELL NO. Swearingen 3H
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 57<sup>th</sup> St. SE Charleston, WV 25304 (304) 926-0450

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

11/06/2015

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Office of Cit and Gas

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MW Department of Environmental Protection

#### 04902409

WW-6A (8-13)

API NO. 47-	-
OPERATOR WELL	NO. Swearingen 3H
Well Pad Name: Swe	earingen 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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.

11/06/2015

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WW-6A (8-13)

API NO. 47		
<b>OPERATOR WI</b>	ELL NO.	Swearingen 3H
Well Pad Name:	Swearinger	n Pad

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Well Operator: XTO Energy, Inc.	Address: PO Box 1008
Telephone: 304-884-6000	Jane Lew, WV 26378
Email:	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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

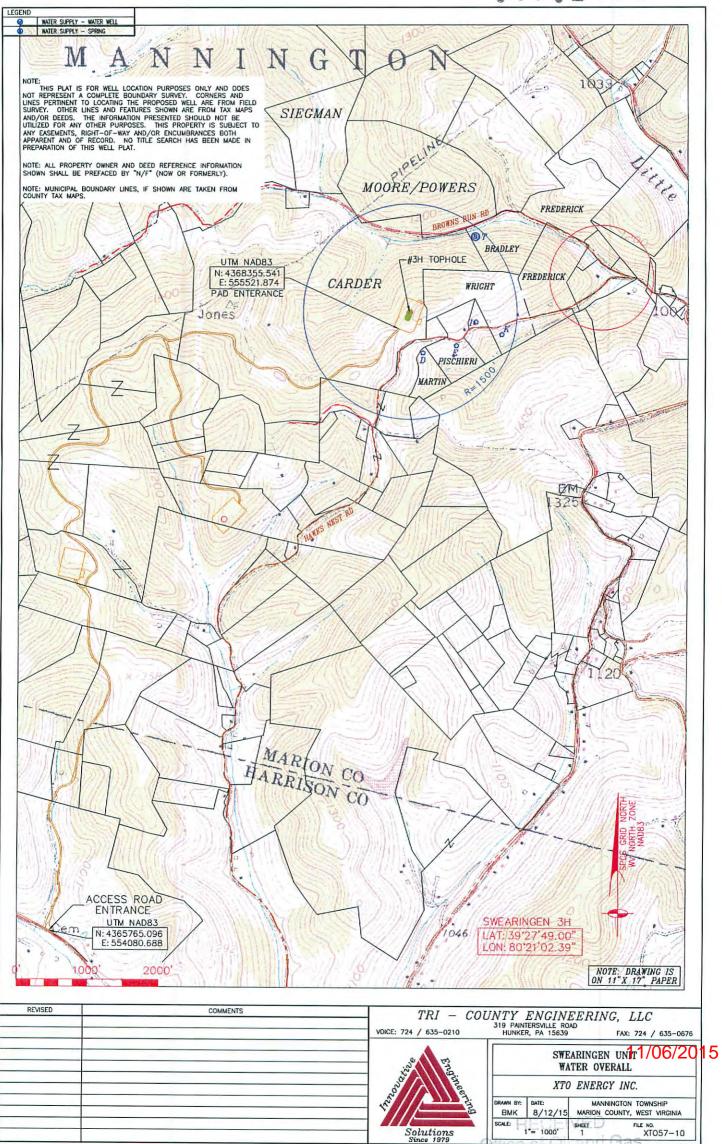
OFFICIAL SEAL NOTARY PUBLIC State of West Virginia TIMOTHY SANDS XTO Energy inc. PO Box 1008 Jane Lew, WV 26378 My Commission Expires December 22, 2018
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Subscribed and sworn before	re me this 31 day of Avg	,2015-
OJn	igh	Notary Public
My Commission Expires	12/22/18	

11/06/2015

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Office of Oil and Gas

SEP 0 8 2015



XTO ENERGY INC.

**O** 

XTOOG57-10

SWEARINGEN WATER OFFSET

(1500' OFFSET)

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	W۷	26582	S 15°29'23" E	637	12-59-26.2(1)
E	CITY WATER	MARIA A PISCHIERI	297 HAWKS NEST RD	MANNINGTON	WV	26582	S 51°16'23" E	817	12-59-26 😙 🖽
ı	CITY WATER	DENNIS & CONNIE ROWAND	264 HAWKS NEST RD	MANNINGTON	WV	26582	S 78°50'36" E	929	12-59-27.2 👼 🗧
К	CITY WATER	GERALD L WRIGHT	67 BROWNS RUN RD	MANNINGTON	WV	26582	S 74°28'44" E	1319	12-59-28 0
Т	SPRING DEVELOPED	JOHN J SR & KELLY J BRADLEY	44 HAWKS NEST RD	MANNINGTON	WV	26582	N 41°55'06" E	1349	12-60-32

VVV Department of and a Proteotion

נ

8/13/2015

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF COLAND 625 4 0 9 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

Delivery metho	d pursuant to V	Vest Virginia Co	§ 22-6A-10a
☐ PERSONA	_	GISTERED	■ METHOD OF DELIVERY THAT REQUIRES A
SERVICE		AIL	RECEIPT OR SIGNATURE CONFIRMATION
on to the surface but no more that beneath such tra owner of minera and Sediment C Secretary, which	e tract to conduct n forty-five days act that has filed a als underlying su ontrol Manual ar n statement shall	any plat surveys prior to such ent a declaration purs ch tract in the co nd the statutes and	to filing a permit application, the operator shall provide notice of planned entry quired pursuant to this article. Such notice shall be provided at least seven days of: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams at to section thirty-six, article six, chapter twenty-two of this code; and (3) any of tax records. The notice shall include a statement that copies of the state Erosion les related to oil and gas exploration and production may be obtained from the rmation, including the address for a web page on the Secretary's web site, to cretary.
Notice is hereb	y provided to:		
<b>■</b> SURFACE	OWNER(s)		COAL OWNER OR LESSEE
Name: Do			Name: *See Attached
	Harmony Grove	Rd	Address:
Address:			■ MINERAL OWNER(s)
			Name: *See Attached
Name:			Address:
			*please attach additional forms if necessary
a plat survey on State:  County:  District:	st Virginia Code the tract of land West Virginia Marion Mannington		Public Road Access: Hawks Nest Rd Watershed: Little Bingamon Creek
may be obtained Charleston, WV	d from the Secret 2 25304 (304-92) he Secretary by v	ary, at the WV D 6-0450). Copies risiting <u>www.dep</u>	anual and the statutes and rules related to oil and gas exploration and production artment of Environmental Protection headquarters, located at 601 57 <sup>th</sup> Street, SE, such documents or additional information related to horizontal drilling may be <a href="mailto:.gov/oil-and-gas/pages/default.aspx">.gov/oil-and-gas/pages/default.aspx</a> .  Address: P.O. Box 1008
			Jane Lew, WV 26378
Telephone:	304-884-6000		Julio 2011, 11 1 20510

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

11/06/2015

FREST INVEID Officer of Colored Gas • SEP 0 \$ 2015

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# 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 Date of Notice: August 7, 2015 Date of Planned Entry: Delivery method pursuant to West Virginia Code § 22-6A-10a ☐ PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL 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) ☐ COAL OWNER OR LESSEE Name: N/A Access Route Only Name: Don E. Carder Address: Address: 245 Harmony Grove Rd Grafton, WV 26354 Name: ☐ MINERAL OWNER(s) Address: Name: N/A Access Route Only Name: Address: 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: Approx. Latitude & Longitude: West Virginia 39.463625, -80.354050 County: Public Road Access: Marion Hawks Nest Rd Watershed: District: Mannington Little Bingamon Creek Quadrangle: Generally used farm name: Shinnston 7.5 Swearingen 3H 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:

Oil and Gas Privacy Notice:

Telephone:

Email:

Well Operator: XTO Energy Inc.

304-884-6000

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

Address:

Facsimile:

P.O. Box 1008

304-884-6008

Jane Lew, WV 26378

11/06/2015

RECEIVED Office of Officiand Gas

SEP 0 8 2015

WV Department of Environmental Protection

Landowners	Don Carder, 245 Harmony Grove Rd., Grafton, WV 26345	V
for Access Road	David Webb, 931 Joetown Rd., Mannington, WV 26582 A A O A 9 A A O	
ioi riccess itoda	Fara May Webb, 1084 Joetown Rd, Mannington, WV 26852	1
	Faye Rockwell, 316 East Run Rd., Farmington, WV 26571	/
	Gerald Lucas Heirs, 1457 Wyatt Rd., Mannington, WV 26582	1
	Gerald Wright, 67 Brown Run Rd., Mannington, WV 26582	1
	James Martin, 409 Hoult Rd., Fairmont, WV 26554	1
	Janet Nutter, 324 Elmhurst St., Morgantown, WV 26505	1
	John & Rita Heldreth, 12 Humanity St., Fairmont, WV 26554	1
	Kathleen Crim Stone, 5117 New Carlisle Pike, Springfield, OH 45504	1
	Perry Hughes, 70 Twin Creek Trl., Buffalo, MO 65622	1

11/06/2015

RECEIVED
Office of Oil and Gas

SEP 0 8 2015

V/V Department of Environmental Protection Mineral Owners:

04902409

<u>Name</u>	Address
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

. RECEIVED
Office of Oil and Gas

SEP 0 8 2015

WV Department of Environmental Protection

#### Coal Owners:

<u>Name</u>	0490240 Address	9
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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Office of Oil and Gas

SEP 0 8 2015

WV Department of Environmental Protection WW-6A5 (1/12) Operator Well No. Swearingen 3H

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

	ry metho	od pursuant to West Virginia C	Code §	22-6A-16(c)		
	CERTIFII	ED MAIL		HAND		
		RECEIPT REQUESTED		DELIVERY		
return the pla require drilling damage	receipt re anned ope ed to be progened a hor- ge of a hor- es to the se e notices	quested or hand delivery, give the ration. The notice required by rovided by subsection (b), section rizontal well; and (3) A propose surface affected by oil and gas of	this so this so on ten o ed surfa peration	ace owner whose land ubsection shall inclu of this article to a surf- face use and compens as to the extent the date	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
		y provided to the SURFACE Coisted in the records of the sheriff				
	Don Carder		/		See attached	
		mony Grove Rd.		Addres		
Grafton,	WV 26345					
State:		e surface owner's land for the pu	pose c	or arming a normal		
County Distric Quadra	t: Nangle: S	farion fannington thinnston 7,5'		UTM NAD 8 Public Road Generally use	Northing:	555567 4368425 Harrison County Rt. 3 (Robinson Wyatt Run) Don Carder
County Distric Quadra Waters	t: Nangle: S	farion fannington		Public Road	Northing: Access:	4368425 Harrison County Rt. 3 (Robinson Wyatt Run)
County Distric Quadra Waters  This N Pursua to be p horizor surface inform headqu	angle: Shed: Blue Blue Blue Blue Blue Blue Blue Blue	Adarion  Adarnington  Adarningt	and co e exter	Public Road Generally use  stice shall include: (1) surface owner whose impensation agreeme at the damages are co	Northing: Access: ed farm name:  A copy of this e land will be unit containing arompensable unclary, at the WV	4368425 Harrison County Rt. 3 (Robinson Wyatt Run)
County Distric Quadra Waters This N Pursua to be p horizor surface inform headqu gas/pas	angle: Shed: Billotice Shant to Wesprovided atlor relations relations and seed of the seed of the shed	farion  fannington  fannington  fininston 7.5'  ingamon Creek   all Include:  st Virginia Code § 22-6A-16(c),  by W. Va. Code § 22-6A-10(b)  and (3) A proposed surface use  by oil and gas operations to the  sted to horizontal drilling may be  cated at 601 57th Street, SE,  ll.aspx.	and co e exter	Public Road Generally use stice shall include: (1) surface owner whose impensation agreeme at the damages are co	Northing: Access: ed farm name:  A copy of this e land will be unt containing ar ompensable und ary, at the WV (304-926-0450)	Harrison County Rt. 3 (Robinson Wyatt Run)  Don Carder  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
County Distric Quadra Waters This N Pursua to be p horizor surface inform headqu gas/pas	t: Mangle: Shed: Blotice Shant to Wesprovided ation relationation relations	Adarion  Adarnington  Adarningt	and co e exter	Public Road Generally use  stice shall include: (1) surface owner whose impensation agreeme at the damages are co	Northing: Access: ed farm name:  A copy of this e land will be unit containing arompensable unclary, at the WV	Harrison County Rt. 3 (Robinson Wyatt Run)  Don Carder  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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

Office of Oil and Gas

SEP 0 8 2015

WV Department of Environmental Prefection

		/
Landowners	Don Carder, 245 Harmony Grove Rd., Grafton, WV 26345	V
	David Webb, 931 Joetown Rd., Mannington, WV 26582	J
	Fara May Webb, 1084 Joetown Rd, Mannington, WV 26852	J
	Faye Rockwell, 316 East Run Rd., Farmington, WV 26571	J
	Gerald Lucas Heirs, 1457 Wyatt Rd., Mannington, WV 26582	J
	Gerald Wright, 67 Brown Run Rd., Mannington, WV 26582	1
	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	/

04902409

11/06/2015

Office of Oil and Gas

SEP 0 8 2015

WV Department of Environmental Projection

Instrument 201500000919

is applying for a permit from the State of West Virginia to conduct oil or gas well

WW-6RW (1-12)

049026 API NO. 47- 049 OPERATOR WELL NO. Swearingen 1H 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 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 , 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 , including the erosion and sediment control plan, if WW-6A and attachments consisting of pages one (1) through required, and the well plat, all for proposed well work on the tract of land as follows: UTM NAD 83 Easting: 555572 State: West Virginia UTM NAD 83 Northing: 4368441 Marion County: Harrison County Rt. 3 (Robinson Wyatt Run) Public Road Access: District: Mannington Generally used farm name: Don Carder Quadrangle: Shinnston 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). FOR EXECUTION BY A NATURAL PERSON Signature: WELL SITE RESTRICTIONS BEING WAIVED \*Please check all that apply Print Name: Michael
Date: 1 - 24 - 15 ☐ EXISTING WATER WELLS Date: | -FOR EXECUTION BY A CORPORATION, ETC. □ DEVELOPED SPRINGS Company By: DWELLINGS Its: Signature: ☐ AGRICULTURAL BUILDINGS Date: Well Operator: XTO End Signature: McKinley Gread Telephone: Bv: JWC, Inc Landman Surface Its: CHARLESTINAL MARKET OFFICIAL SEAL Subscribed and sworn before me this E OF WEST VIRGI KETH D. CAPPS
JWC1
90 Inclustrial Park Rd, Jane Lew, WV 28370
My commission segares April 18, 2022 Notary Public 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 depprivacy office

My Commission Expires

20150000091" Filed for Record MARION COUNTY + MM JANICE COSCO+ CO11/1/06/2015 AGREE DEED COUNTY THE ELYED Office of Oil and Gas

SEP 0 8 2015

WV Department of Environmental Protection

WW-6RW (1-12)

Oirand Gas Privacy Notice:

04902409

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

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

Th		The state of the s	THE VIEW
work Please by	ator, XTO Energy Inc.	is applying for a permit from the State	te of West Virginia to conduct oil or gas wel
Work. Ticase of	e advised that well work permits a	is applying for a permit from the Stat re valid for twenty-four (24) months.	te of west Virginia to conduct oil or gas wel
Well Location	Restrictions		
Pursuant to We	est Virginia Codo 8 22 64 126	W II	undred fifty feet measured horizontally from
any existing wa	ater well or developed spring use	Wells may not be drilled within two hu	undred fifty feet measured horizontally from mption. The center of well pads may not be
rocated within	ola fillificated through the France	· · · · · · · · · · · · · · · · · · ·	indivit. The center of well nade men t
idiger used to	louse or chelter doing		ng two mousand five hundred courses for-
andimize of ag	Hellingal hundings that are a	The state of the s	phicable to those wells developed amin
provided in Sect	Ion ten of this article or a notice	C. STATE OF THE CONTROL OF THE CONTROL	of plainted entry for surveying or etaking or
article was prov	Ided. Whichever occurs first 1	· · · · ·	ruce in subsection (n), section civien of this
withten cons	ent of the surface owner two	and the state of pilot	to that date. This limitation may be waited
CICIA OF THE COR	niv commission for the	in a seconded in	the real property records maintained by the
variance by the	Secretary from these distance		cililore, the Well operator may be granted a
or practices to b	of employed during wall air		i identifies the sufficient measures facilities
conditions the de	epairment requires to answer the	c. The	variance, if granted, shall include terms and and property. The terms and conditions may
metude insuranc	e, bonding and indemnification, as	well as technical requirements.	and property. The terms and conditions may
I, Shirley I	Penner L	WAIVER	
provisions listed	above and that I have	have read the Instructions to Persons Nat	med on Page WW-6A and the associated
WW-6A and atta	schments consisting of	pies of a Notice of Application, an Appl	med on Page WW-6A and the associated lication for a Well Work Permit on Form
required, and the	well plat, all for proposed well we	iples of a Notice of Application, an Appl  1) through, including the earth on the tract of land as follows:	erosion and sediment control plan if
State: we	est Virginia	and of falle as follows.	Pilli, II
0	arion	UTM NAD 83 Easting:	555572
Total Comments	ennington	UTM NAD 83 Northing:	4368441
0 1 1	innsten	Public Road Access:	Harrison County Rt. 3 (Robinson Wyatt Run)
Watershed: Bin	gamon Creek (0502000206)	Generally used farm name:	
I further state that	t I have no objection to the plan-	d work described to a	
issued on those m	naterials and I therefore waive all	d work described in these materials, and	I have no objection to a permit being
WELL SITE RE	ESTRICTIONS BEING WATVE	west v	riginia Code 8 22-6A-12(a)
*Please check all	that apply	FOR EXECUT	ON BY A NATURAL PERSON
		Signature:	is one one
L EXISTING	WATER WELLS	rim Name: 9	man en de allien
☐ DEVELOPE	ED SPRINGS	FOR EVECUTE	7-2015
		Company:	ION BY A CORPORATION, ETC.
DWELLING	GS	By:	
□ .an.a. =		Its:	
LI AGRICULT	URAL BUILDINGS	Signature:	
		Date:	
Well Operator: XTO	D Energy Inc.	Signature: band of	7
By: Jarrod	MCKinley	The state of the s	27
Its: Surface	Landman (JWC, Inc.)	Telephone. 403	-330-0992
	OT A OFFICIAL SEAL	Subar 1 1 1 1 a	anth
NO NO	OTTATEOF WEST VIRGINIA NOTARY PUBLIC	Subscribed and sworn before me this	27 day of January
<b>三</b> (张 连 5)	KEITH D. CAPPS	Keuch D. Carol	/
96 link	dustrial Pork Rd, Jene Lew, WV 26378	. Capp	Notary Public
My commi	ission expires April 18, 2022	My Commission Expires	oth 3000

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 depprove officer days you.

My Commission Expires

	201500000920 11/06/2015
	Filed for Record in
	MARION COUNTY, NV
	JAMICE COSCO, COUNTY CLERK
	01-28-2015 At 12:23 pm.
	AGREE DEED 11.00 STATE DAX VED 100
	STATE JAX VED .00
	COUNTY FAX and Gaso
Di	COUNTY FAX and Gasio Back 1166 Page 666 - 766

SEP 0 8 2015

WV Department of Environmental Protection



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

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

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

August 7, 2015

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

Subject: DOH Permit for the Swearingen Well Pad, Marion County Swearingen 3H

Dear Mr. Martin,

**Earl Ray Tomblin** 

Governor

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,

Gary K. Clayton, P.E.

Day K Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc:

Tim Sands

XTO Energy, Inc.

CH, OM, D-4

File

## Hydraulic Fracturing Fluid Product Component Information Disclosure 4902409 Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS#).	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comiffents O P 2	mant of protection
Water	XTO	Carrier/Base Fluid	Water	7732-18-5	100.00%	88.35%	> &	
Sand (Proppant)	Universal	Proppant	Silica Substrate	*	100.00%	11.20%	W O G	요 공
Hydrochloric Acid (10%)	PPG Industries	Acidizing	Hydrochloric Acid	7647-01-0	10.00%	0.00%	L iii io iii	$\alpha$
			Other - (non-hazardous)		85.00%	0.00%	<u>a                                    </u>	<del></del>
Hydrochloric Acid (7.5%)	PPG Industries	Acidizing	Hydrochloric Acid	7647-01-0	7.50%	0.03%	,	5.5
			Other - (non-hazardous)	4.7	92.50%	0.34%	Ö	Ü
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%		
		\$5.00	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 WEARINGEN WELL PAD & ACCE

APPROVED WVDEP OOG

API#4902362

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

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



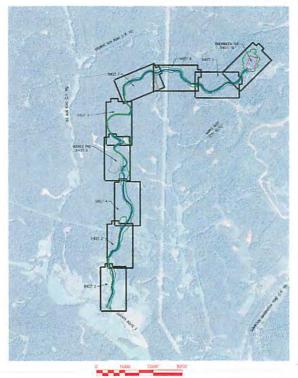
SITE LOCATION MAP

MAP REF: SHINNSTON & WALLACE, WY
SCALE 1" = 2000"



PROPERTY OWNER	TAX I.D.	DISTURBED
FARA MAT WEST	09 145-05	1 092 AC
DAVID W WEDD	09-146-05-2	2.200 AC
GERALO L LUCAS	12-59-9-2	0.100 AC
CRIM FAMILY LIVING	12-59-55	1 500 AC
JOHN G & RITA L HELORETH	12-59-10	0.003 AC
DANET NUTTER & EARBARA WAGNER	12-59-10.5	0 800 AC.
JOHN G & RITA I HELDRETH	12-59-10	3.700 AC
CRIM FAMILY LIVING	12-59-55	0.040 AC
FAYE C ROCKWELL	12-59-09	1 600 AC
PERRY L HUGHES	12-59-15	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 -	12 59 28	0.200 AC
JAMES C MARTIN	17-59-25	OA, 000, 0
DUN E CAPDER -	12-59-01	8 900 AC.
CN F CARDER - PAD	12-59-01	7 400 40

NO.	DESCRIPTION	DATE	EA
1	WYDER COMMENTS	1/29/15	AC
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	DRAWING INDEX	
PLAN	TITLE	SHEET NUMBER
SEDIMENT CONTROL PLAN	(	
"SEDIMENT CONTROL PLAN"	ESS 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 SET"	PAD LAYOUT (DRILL PHASE)	SHEET 25
	PAD LAYOUT (FRAC PHASE)	SHEET 26
	DETAILS	SHEET 27





### TRI-COUNTY ENGINEERING, LIC.

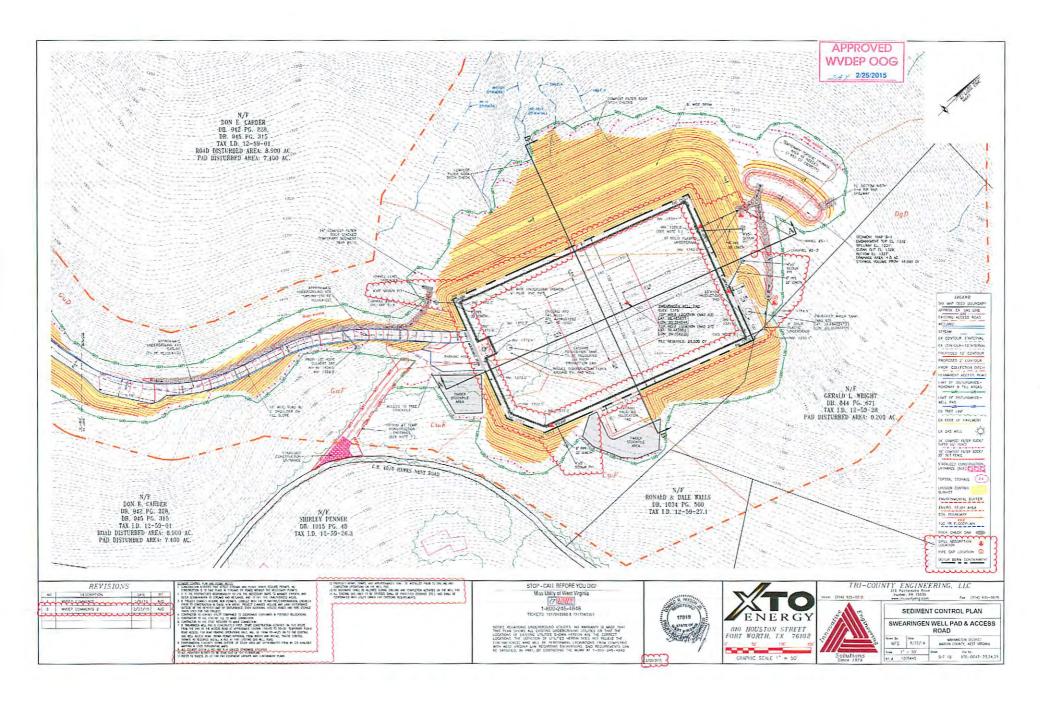
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ACCESS ROADS

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MFS 0/22/14 WANNESTON SISSEC, WARRY COUNTY

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ME # 1205445 SHT 1 370-0042-25



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

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

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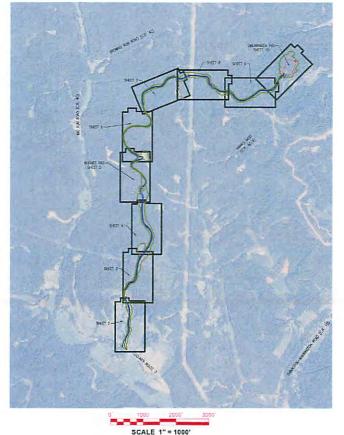
SITE LOCATION MAP MAP REF: SHINNSTON & WALLACE, U.S.O.S. 7.5 MINUTE QUAD

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DISTUR	RBED ACE	RAGE
PROPERTY OWNER	TAX I.D.	DISTURBED AREA
FARA MAY WBB	09-146-05	1.092 AC
DAVID W WEBB	09-146-05.2	2.200 AC.
CERALD L LUCAS	12-59-9.2	D.100 AC.
CRIM FAMILY LIVING TRUST	12-59-55	1,600 AC.
JOHN C & RITA L HELDRETH	12-59-10	D.003 AC.
JANET NUTTER & BARBARA WAGNER	12-59-10.5	D.800 AC.
JOHN G & RITA L HELDRETH	12-59-10	3.700 AC.
CRIM FAMILY LIVING TRUST	12-59-55	D.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	D.200 AC.
JAMES C MARTIN	12-59-25	D.300 AC.
DON E CARDER - ROAD	12-59-01	8 900 AC.
DON E CARDER - PAD	12-59-01	7.400 AC.

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	SHOWN HEREON ARE THE CORRECT LOCATIONS DOES NOT RELIEVE THE CONTRACTOR(S) WHO W		LITILITIE



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	ACCESS ROAD CROSS SECTIONS	SHEET 18
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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





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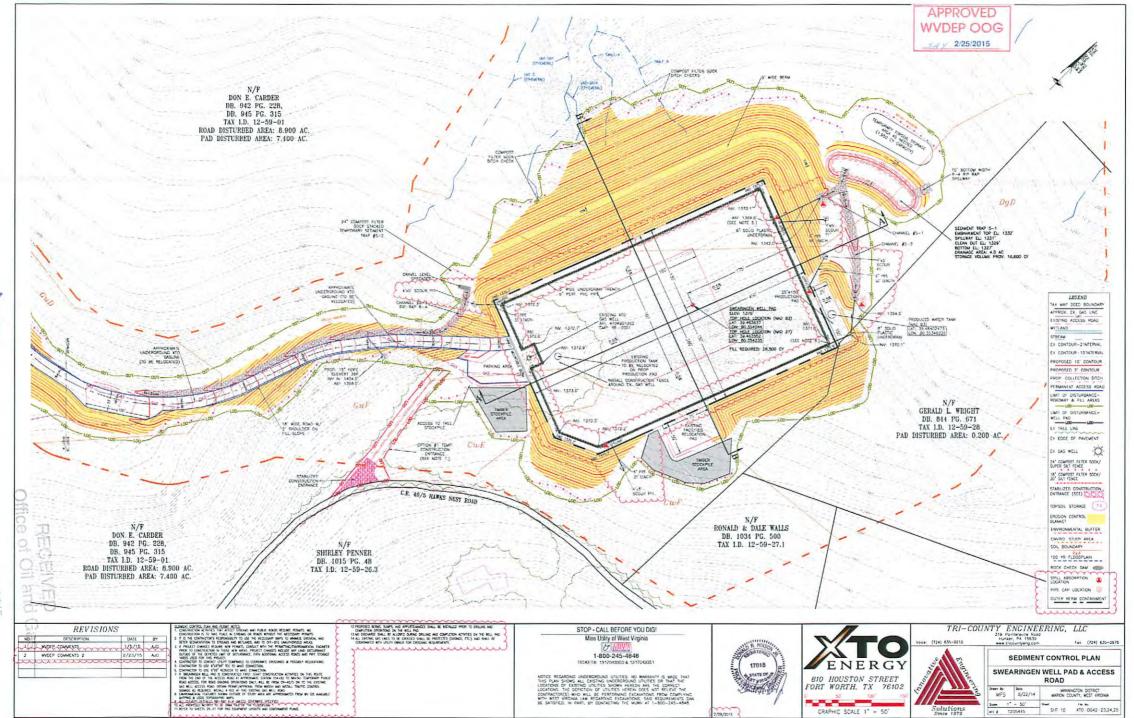
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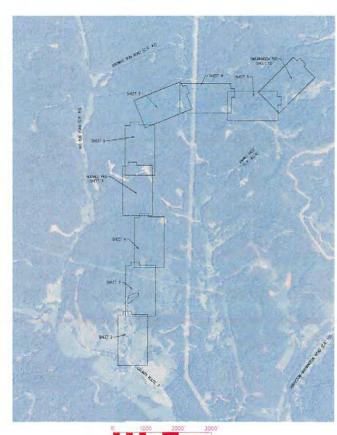
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#### SEDIMENT CONTROL PLAN FOR THE **SWEARINGEN WELL PAD & ACCESS ROAD EAGLE & MANNINGTON DISTRICTS** HARRISON & MARION COUNTIES, WEST VIRGINIA

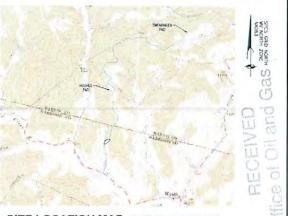


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FAYE C ROCKWELL	12-59-09	1.600 AC
PERRY L HUGHES	12-59-16	2.800 AC.
FAYE C ROCKWELL	12-59-08	9.400 AC.
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GERALD L WRIGHT -	12-59-28	0.200 AC.
JAMES C MARTIN	12-59-25	0.300 AC.
DON E CARDER - ROAD	12-59-01	8.900 AC.
ON E CARDER - PAD	12-59-01	7.400 AC.

NO.	REVISIO DESCRIPTION	NS DATE	BY
1	WYDEP COMMENTS	1/29/15	AIG.
2	ROAD REALIGNMENT	6/11/15	RAM
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	PAD LAYOUT (FRAC PHASE)	SHEET 26
	DETAILS	SHEET 27

Swearingen 1H-API-47-049-02362





TRI-COUNTY ENGINEERING, LLC

	Hunki www.fr	er, PA 15839 CountyEng.co	n	for	(724)	635-06
Ane	1	SEDIMENT CONTROL PLAN - COVER  SWEARINGEN WELL PAD &  ACCESS ROADS				
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4	TCE	8/22/14	EAGLE DOT	RET, HAR DISTRICT, WEST VIRO	MARION	COUNTY
and the last	Same At	NOTED	Dec:	Tie	No.	

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PERMANENT ACCESS ROAD LIMIT OF DISTURBANCE-ROADWAY & FILL AREAS REVISED
LIMIT OF DISTURBANCE
LIMIT OF DISTURBANCE
WELL PAD
LOD
EX TREE LINE EX EDGE OF PAVEMENT EX CAS WELL 34" COMPOST FLTER SOCK/ SUPER SLT FENCE 18" COMPOST FLTER SOCK/ 30" SLT FENCE EROSON CONTROL BLANKET CONSTRUCTION FENCE ENVIRONMENTAL BUFFER ENVIRO. STUDY AREA ADDITIONAL ENVIRO. STUDY AREA SDIL BOUNDARY 100 YR FLOODPLAIN ROCK CHECK DAY (ES) DRANKE DID OUTER BERM CONTAINMENT EXISTING STORMMATER CONTROL FEATURE TRI-COUNTY ENGINEERING, LLC 319 Pointersville Road Hunker, PA 15639 www.tricountyeng.com Fee: (724) 635-0676 SEDIMENT CONTROL PLAN 17818 ENERGY A STATE OF S ACCESS ROAD TO SWEARINGEN WELL PAD 810 HOUSTON STREET FORT WORTH, TX 76102 TCE 8/22/14 WANINGTON DISTRICT WARRON COUNTY, WEST VIRGINIA See: 1" = 50" See: 75 %: WI # 1205445 SHT 6 X10-0G42-23,74,25

GRAPHIC SCALE 1" = 50'

FAYE C ROCKWELL INSERT #1 HA. 33-PG. 871 DB. 1005 PG. 569 TAX 1.D. 12-59-08 FAYE C ROCKWELL HA. 33 PG. 871 DB. 1005 PG. 569 TAX I.D. 12-59-08 TAX MAP DEED BOUNDARY APPROX. EX. GAS LINE EXISTING ACCESS ROAD WETLAND STREAM EX CONTOUR-2 INTERVAL EX CONTOUR-10'INTERVAL PROPUSED 10' CONTOUR PROPOSED 2" CONTOUR PROP. COLLECTION DITCH PERRY L. HUGHES DB. 1005 PG. 566 PARCEL ONE TAX 1.D. 12-59-8.2 REVISIONS STOP - CALL BEFORE YOU DIG SUDIAL CONTO, ENN. AND PERMIT NOTES

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1-800-245-4848

TICKETS: 1317043350 & 1317043351

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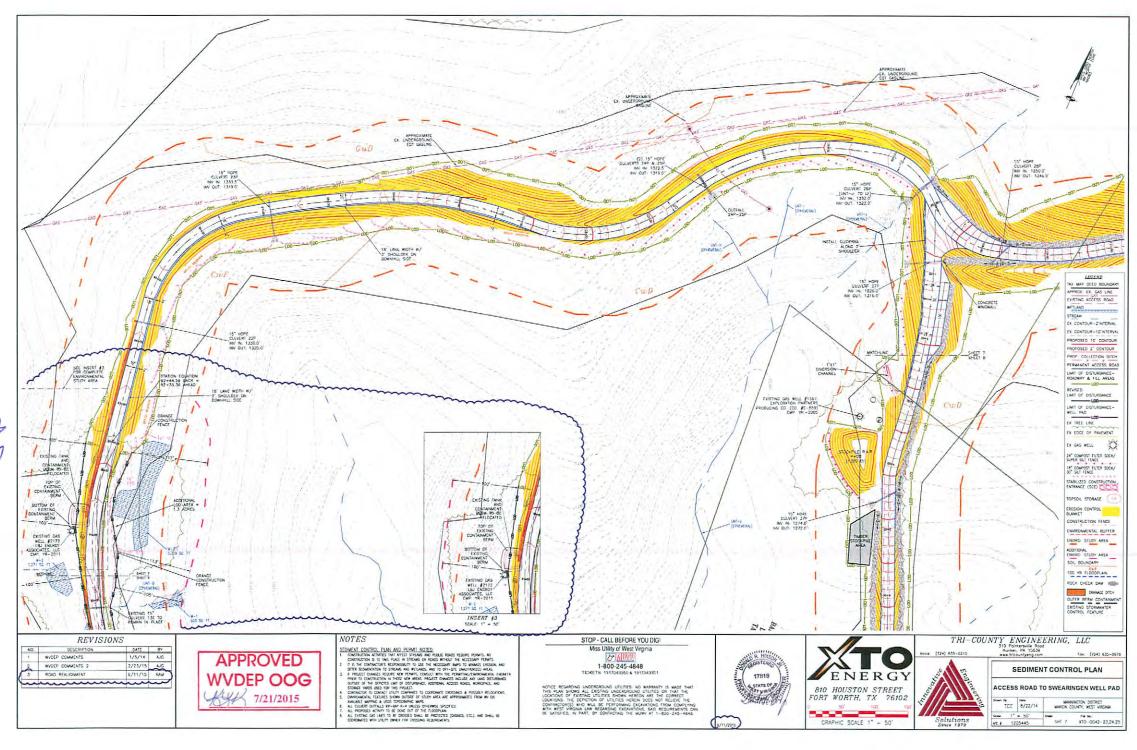
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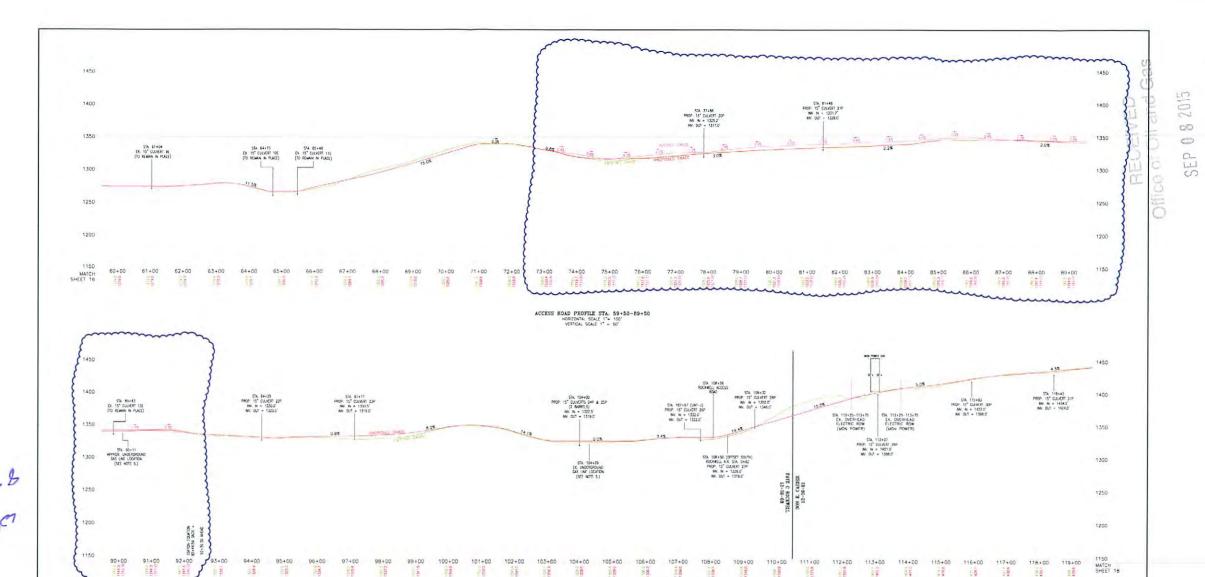
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STOP - CALL BEFORE YOU DIG Miss Utility of West Virginia 1-800-245-4848 TICKETS 1217043350 & 1317043351

ACCESS ROAD PROFILE STA. 89+50-119+50

HORIZONTAL SCALE 1" = 100"

VERTICAL SCALE 1" = 50"





TRI-CO	JNTY ENGINEERING,	LLC	
Voice (724) 635-0210	Hunker, PA 15639	Fax: (724) 635-06	
10° 11 EZ	SEDIMENT CONTROL PLAN		
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Solutions Since 1979

AJG 7/30/14 See AS NOTED the Fa Se. SHT 12 XTO-DG42-23,24,25 MC / 1205445

TRI-COUNTY ENGINEERING, LLC

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

STOP - CALL BEFORE YOU DIG Miss Utility of West Virginia 1-800-245-4848 TICKETS 1317043350 8 131704335

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3° 11 5	SEDIMENT CONTROL PLAN					
		ACCESS ROAD CROSS SECTIONS				
	Drewn By TCE	4/30/15	MANUNCION DISTRICT MARION COUNTY, WEST VIRG			
Solutions Since 1979	-	= 30° 05445	SHT 17	Tie No.: XTO-0042-23,		

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S. Seed annual count of blamesting annual control bears in channols to be expected.

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One principle with the long and this best date, as readed to come with manifester earing construction, 32' centerport of ferre can be used in few of 24' convent.

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BUTs and constitution force and construct place and reproduct has institute a minimum uniform TVs personnal expended core over the entire proper area find not secured by the private conditional existing.

Force of Expending of the institutional find, after to the Constitution Sequence, Securings Medical Feed. Construction Sequence -Swearingen Well Pad

Fig. to contraction for the Sequences Viet Pail the Large Mass finals what he constructed as sensed in the Commission Sequences for <u>Access States Sensed Se</u>

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Conduct 18 operations by approved companion methods on the west table of the well pad slope using the ensure method slock shed from the sued contribution from approximate reviews stationing 10-0705 t 144-22 (Ord.). The Secretary Well pad requires 2 24,500 CV of ISS.

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#### VIII. Variation Practices - Temporary and Permanent

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to plant and specifications for installing lossed stall be in heaving with the standard and shall deviction for imparaments for applying the practice to introduce appeals and increase and

specification and memor of MacAzation poor to use appointuit soil borning procedures the preparation plans and methods of application, sistribulion and consumbus.

City proparation. Nature operating topical assists that all necessary endoon and sediment control proclimes such as diversions and sediment Sumers and in place and handlering properly. These practices must be maintained until the site is permissently statistical. Grainse Martan states on the areas to be topoled according to the additional plan and during after them by apping travel.

Limited of subsect-Where the pill of the existing subsect in 6.0 or less, or the suit is computed of housey theys, incomputes separational forestone of amounts recommend for the execting similar to be used. Incomputes him to a septim of all lessed of riches by disting.

Speakmenty: Permediately prior to screening the topsed, bosen the subgress by mixing or scenturing to a deeth of all fewer is an interest made been incorporated, bosen the soil to a slepth of all level if inches before surveiling the liquid. of the MC. Head compact filter score along the access read than Sinker C-00 is asymptotic Sinker 18-00. Head Committee Force along the CO is proved a miles between the propert admires and wellands. World, Med. Mo. (M.), Med. Mo. (M.), Med. Mo. (M.), Med. Med. (M.), Med. Med. (M.), Me sector, weak, which, and make.

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Zeeder Propertion - To control econom on the less surfaces specific for the last to permisse and give. Seedlest properties in exceeded, if the less has been recently becomed a distriction to district to suffer recently becomed a distriction must be beginned by desired range for example of the assessment of the supplies of the properties problem.

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Our to the steep skipes, and ergoon in a potential problem, boardaring the trest management processes at all times to the desirts, well its and heights provided on the desirts will also send in our of stresses reduction.

X. Construction Schedule
The schedule to serrophismme of 2015. The schedule new vary due to occurring province and weather

This project has the potential for multiple phenes, when constructed together or separately and independently, as principles in the <u>Construction Physics Section Address</u>

Learness Control Plan Samples Section Address

2. Consideration Freeding Basic September Control Flori Services.
1. Executive Control Freeding Services on Control Flori Services.
2. Executive Control Freeding Services on Control Flori Services on Control Floridate Control Construction Notes General

District the necessary Permit signage and seep all Plans. Approvals and Permits on site skeing construction The contractor and contact than LTBy of New Vigins to have any entiring states marked at the size. More USBy should be notified two working days prior to any earth moving annexes. They saw he relatived at 1-400-245-4548.

Refer by the Debelorm Tables to installation and construction design information for the Cubiers Colleges Channels Seasons Track and all other EES features

Miss Utility of West Virginia 1-800-245-4848 TICKETS 1217042350 & 1317042351

STOP - CALL BEFORE YOU DIG!

CONTROL MODERNIC MODERNIC MEDITAL SE ALEXANT (5 MICE THAT THE FAM ADDRESS ALL ENGINE OLD ANTECNOR MEDITAL CONTROL CONT



State out the finite of autoritance and note any environmental features to the size. Utilize prompt construction before more streams and welfands to provide a

Econspution limits need to be expansed beyond the least of sidulaturus alamed and according to the Plane, a pre-construction environmental mediation will need to be conducted. The contractor and burstot the control metal budged to consult a review on the level prine to constitution:

devalors have the approved Han will require WIDTH approval, and parently approved from other regulatory beginning on the project manger. The Colonadard of to contract or on contraction of financial regulatory is applicated to the contraction of financial regulatory. In contraction, the parently requirements to mandating contractions.

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Topical shall be removed and sociolised in agreedural areas. In recollect wass, the element target notes target notes, then and defens and ground vegetation shall be removed prior to actual size commission.

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Visit also need under constitue of and and consistent Managers such as better and displate area these streng strength by statistical displate should be consistent.

Visual expectation of the DAP's small be consisted and occurrence usering and after rain every. BMPs that require maintenance or year shall be restored within toward the hispector's methodor to the corrector or by the Centralan's expensions.

The conduction force shall be inspected usedly its entant the larmer is standing, Any sections of the Construction Ferce that nevers to the repease or replaced used require a surveyer boson of the section delps as the conduction ferce said property placed to prevent impacts to the conducted variance.

Provide the necessary WOO's spane as CPU for semination of the injured in accordance with the WOY's or Advanced Primary College necessary. Fixed Environmental Primary College necessary is a contract of the college of the CPU for the C

personnemes companies and a reThe ACE of Ch-1 shall be installed in two phases. In the includingsee, the RCC shall be an order on the inviting growed treat, with no greating necessary to abler for construction twice necessary and companies that sexus and to permiss the sharing and pulleng over interior, by stated below. Yes below to the extend shared in

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and calcular claimed, takes to find the find recovery to each transform of this stay.

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In section to the construction of Custer 107 scales acree, construct our author of their requestive columns (Studen49, Outlen49, Outl

Keep disturbance to a minimum at the emaining solved consenge at approximate Stations 16+72 (is permit = CubernAE and CubernAE+) and 17+85 (Cubern 7E). These three majority are to company to passe and impact to the file of the private.

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Construction A 10.

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Continue grading contains from approximate Stations 20+10 to 36+30. Theres are in this places that in: Fill Area #7 (x 7 170 CV), then Fill Area #1 (x 24.600 All approximate stations 30-00-50-00 other to the west conduct most greating of the entering pas well road. This senting pas well road will be used to Access Fill Area Fill.

42 Install pulsers at approximate Stations 51-50 Other West (Culture-15P), 21-12 (Culture-14P), 23-41 (Culture-15P), and 35-75 (Culture-16P).

Revegestion of areas of this size and tushees not expected to be revolved, required, the not one fill expect amount begin immediately after construction. The fearli-erspensive and one of the best ensure and welforest contribut in lamparary secting with makin applied or permanent weeking (see section for Revegetation).

What projections that he conducted and socialized and social stages of construction with as welfand and disease property, metabolous infoliation for an extension and sections and installation of construction force properly allowed at the market, surveyed business for projection of sections that are not to be impacted.

Exemperat incorporal Mail Stree (This profes to stee which states for our survey of surface, without a product and repetit

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7. Straw Dates

Construction Inspection Requirements

Access Road -Station 8+00 to Station 19+00

install on 18" Cubert at Station Se 16. (Cubertel F)

increase the root suite of Culture 19" Culture 39" and place rooms (Cultie-107).

After greating is complete, place ground to actions from grade shreaters of the proposit access rawii.

Use broom plugs at oldity, road and where or usering to writing water or the work areas.

Construct race outlets at their respective culvers (Dutablet), Dutablet, Dut

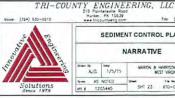
6. Construct a gravel level spreader with a liner of the end of the channel discount Culture 15th 15th 15th offset week.

thetal race chara same hear dukent tracks where shown on sharenge.

roude access to the pas well at all times, as I is still in powerfien.

Construction Sequence -Proposed Long Access Road





SEDIMENT CONTROL PLAN NARRATIVE WARDA & HARRISON COUNTES, WEST VIRGINIA AJG 1/5/15 ## #5 NOTED | Park | 7% %-## # 1205445 SHT 23 XTD-0G42-23.24.25

The limiting factors for the site soils have been considered when developing the proposed PLES control produces and custofful of elepantics. Immediate seeding and multiming of industries areas will ask in soil statistation and rescue soil vacious notice separation is established, and use of enseign control developing on steep studies into an expressing to see the event of multi-full special more developing.

VL Permite

Other Permits and Approvals

Permits and approves that have been acquired from WV DNI for RTE Species and for Streem Activities WV Culture and History to Historical and Artheestagical Review USPWS for RTE Species including a Cleared Saf Scrivey

Permit and Approvals to be accurred from submassion of the SRH Project industric this EAS Plan USACE for NAPPER Permit. WW DEP for \$11 Water Guidly Certification.

REVISIONS WYDER COMMENTS 1/29/15 AUG ROAD REALIGNMEN Chimin

1 Project Centriplian.
Inc. (100), as proving this (100), a proving this Ensure and Septement (8.5) Pair on behalf of XTO Energy Inc. (XTO, XTO proposes to uninful) from Merietian (fine Day Vot Plan stee. Sewanting, 100) from the Set of Set Plan stee.
See Vot Plan stee. Sewanting, 100 plan and increase and as personance 2.5 mile long matter series and treat used stee. This property is as the SRM Propert and fine fine and increase and the series of the SRM Property and th

to DRI Project shall expect 70 linear har of one stream. INST-1 to Binglanus Chois and approximately QCDE sore of wellamin, Ve28, Ve4A, Ve4C, Ve4A, Ve4C, Ve4A, Ve4C, New Years (was the reporting a planetar in their Welland Defineation and Entern Characterization result for the SRI

The proposes across read to the bests that the from Councy Raad 2 (CR-3), and a temporary access read to constitution of the access read shall be from CR-40%. Refer to the Femilia section of this report to father information.

s EAS than has been developed for the SAH Physics or about for multiple project pressing.

Zussable that units purious of the project will be built at a bine, or the project could be built in one press. Therefore, the sequencing of the project commendium admirts have

Fig. (In) impairs a line or seems for any index of the control of

8. Earling East Considerate
Mark Stiff hand in Section Completes and control that seem partial for according to the partial value of access country to the control of th

The purisating price tomer of nord area rating lemm, with court types of would upon regulated areas used for existing pas time ISSNA studios pas with, invertigated interestation area and fermional areas, smaller for the SRM Project existing the constants.

According to a mod owner goal to View Vigran Septem Visitor, Section 2000, page 2000, bits Septem United Section Under Anthropial Research Table
According to Section 2000, and Section 2000, page 2000, and section 2000, and secti

There is there and inscription readed was an instrumed to Proposed the winns a chiefern removement study promise, resistant the proof and of the Parket in the chiefern readed. Showed in the chiefern is an index of the proposed instrument in the proposed in the chiefern readed in the chiefern reade

No noting use ruled within the brainst less on the USSS Topographic Map. However it is known than review of mine maps that must at the 28th Powert has been sequenced.
If considered mines are encountered or the webscowns to offset through the mines rescence of the project withdraw may be resourced. Custodly the Mine Conners and XTO we considered with the conners and XTO we considered mines.

Best management practices will be used during construction to help minimate sectimentation to the sundunding streams, and to keep mild, and debris off the public house that could be separated from the engineers used for communities of the project.

Bedinner and ersour control measures to be used for this project and not community memories (RCIT) will force, composed the social sealment layer to use-bessed does compose their social other backs are temporary sectioned tags, report deart outdies crybed distributed green lained presenter. The Codings Surpose-water filter bags into surror, memories with segulation of this of section characteristics.

FPRMetia mapping shave both Zone AE and Zone R Bood areas located at the access road turn-off point from Charry Road 1. The FFRMA-mappins stream Bingword Dees is not to be crossed. The prescribing charge cours, and Regimen Chare is to be placed a Physician Period River to be Helmon Charry. R Remail it is also based output of the FERMA-mapper Supplies of Designation Charry.

The uses flavor-round interest (accessoring the property (EM), retirem to Claim Value A. Lead and reviews and contributed interest and property interest and contributed in

VM DCP held monitors attends, and could gits violations to the Owner and the Contractor for septiment publishes and equipment fluid spills into the waterways.

here provided in a marrier to first the photons of work can be built logithy, no wash start, and independently.

APPROVED WVDEP OOG HH 7/21/2015

NOTES

