



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

October 21, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-4902408, issued to XTO ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Marlin
Chief

Operator's Well No: ROCKWELL 8H
Farm Name: ROBINSON, ALLEN H.
API Well Number: 47-4902408
Permit Type: Horizontal 6A Well
Date Issued: 10/21/2015

Promoting a healthy environment.

10/23/2015

PERMIT CONDITIONS

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

CONDITIONS

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

WW-6B
(04/15)

04902408

API NO. 47- _____ - _____

OPERATOR WELL NO. Rockwell 8H

Well Pad Name: Rockwell Pad

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

4 606

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

2) Operator's Well Number: Rockwell 8H Well Pad Name: Rockwell Pad

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

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

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No

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

8) Proposed Total Vertical Depth: 7,500'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,320'

11) Proposed Horizontal Leg Length: 7,294'

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

13) Method to Determine Fresh Water Depths: Offsetting Reports

14) Approximate Saltwater Depths: None Listed

15) Approximate Coal Seam Depths: 455'

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

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

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

WRH
8-28-15

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WV Department of
Environmental Protection

04902408

WW-6B
(04/15)

API NO. 47- _____ - _____
 OPERATOR WELL NO. Rockwell 8H
 Well Pad Name: Rockwell Pad

18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24	New	PE&B	95	40	40	59
Fresh Water	13.375	New	H40	48	500	500	452
Coal							
Intermediate	9.625	New	J55	36	3,100	3,100	1,262
Production	5.5	New	J55	20	15,320	15,320	Lead 2,797'/Tail 5,930'
Tubing							
Liners							

*WRH
8-28-15*

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24	28	0.375	940	40	Standard	1.19
Fresh Water	13.375	17.5	0.33	1730	410	Standard	1.19
Coal							
Intermediate	9.625	12.25	0.352	3520	2520	Standard	1.19
Production	5.5	8.5	0.361	12640	6090	50.50 POZ / Class H Tail	1.13 / 1.18
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

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

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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

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

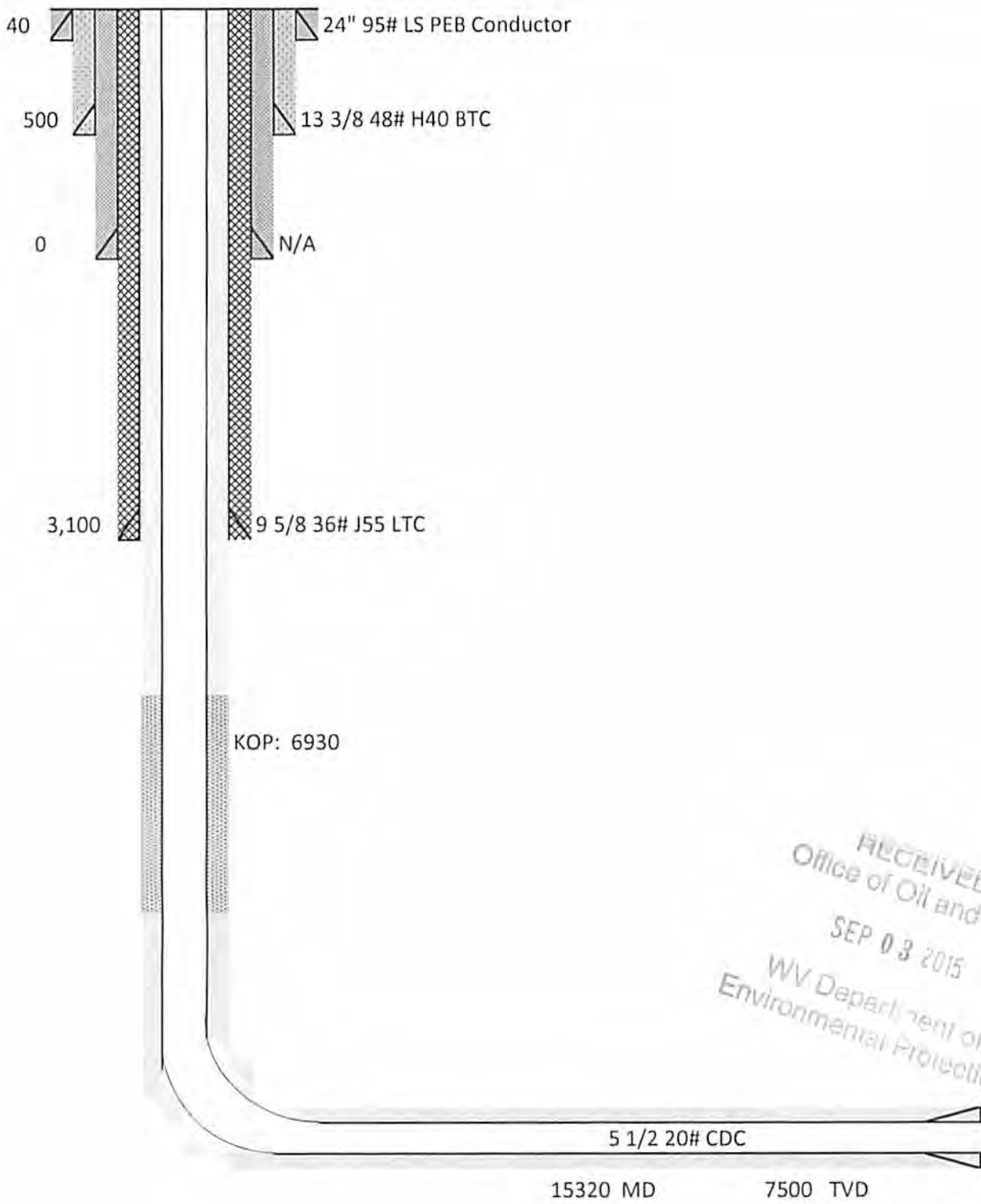
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OCT 20 2015
WV Department of
Environmental Protection

25) Proposed borehole conditioning procedures:

Conductor: Hole is auger drilled: No conditioning required.
Fresh Water: Condition hole with air at TD until visibly clean, run casing, circulate and clear 1.5x pipe volume with fresh water before cementing.
Mine: Condition hole with air at TD until visibly clean, run casing, circulate and clear 1.5x pipe volume with water before cementing (if applicable).
Intermediate: Condition hole with air at TD until visibly clean, run casing, circulate and clear 1.5x pipe volume with water before cementing.
Production: Circulate hole with synthetic based drilling fluid at TD (1 bottoms up for each 2,000' of lateral drilled). TOOH and circulate minimum of 1 bottoms up and until returns are minimal at the base of the curve. Run casing, circulate and ensure good returns before cementing.

*Note: Attach additional sheets as needed.

ROCKWELL A 8H
Marion County, West Virginia



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10/23/2015

Rockwell 8H – Mine Void Encounter Plan

04902408

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

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

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

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

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

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10/23/2015

WW-9
(2/15)

API Number 47 - 04902408
Operator's Well No. Rockwell 8H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name XTO Energy Inc. OP Code 494487940

Watershed (HUC 10) Bingamon Creek Quadrangle Shinnston 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 4707302523, 4705500319, 4708505151, 4708509721, 3416729577, 3412124037, 3405320968)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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

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

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

Additives to be used in drilling medium? See additional page

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

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

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

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Environmental Protection

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Gary Beall

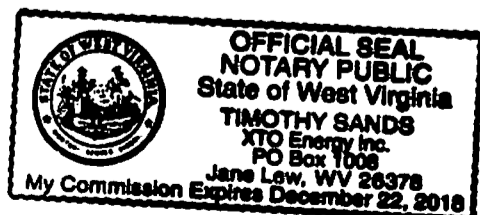
Company Official Title Production Superintendent

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

[Signature] Notary Public

My commission expires 12/22/18

10/23/2015



04902408

Form WW-9

Operator's Well No. Rockwell 8H

XTO Energy Inc.

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

Lime 2-4 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Per plans

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Bill Heckscht*

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Comments: _____

SEP 03 2015

WV Department of
Environmental Protection

Title: *Environmental Inspector*

Date: *8-29-15*

Field Reviewed? () Yes () No

10/23/2015

XTO Energy Inc.
Well Site Safety Plan

04902408

Rockwell 8H
Rockwell Pad

39.455571
-80.363151

*WRH
8-29-15*

790 Hawks Nest Rd.
Mannington, WV 26582

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●	WATER SUPPLY - WATER WELL
○	WATER SUPPLY - SPRING

MANNINGTON

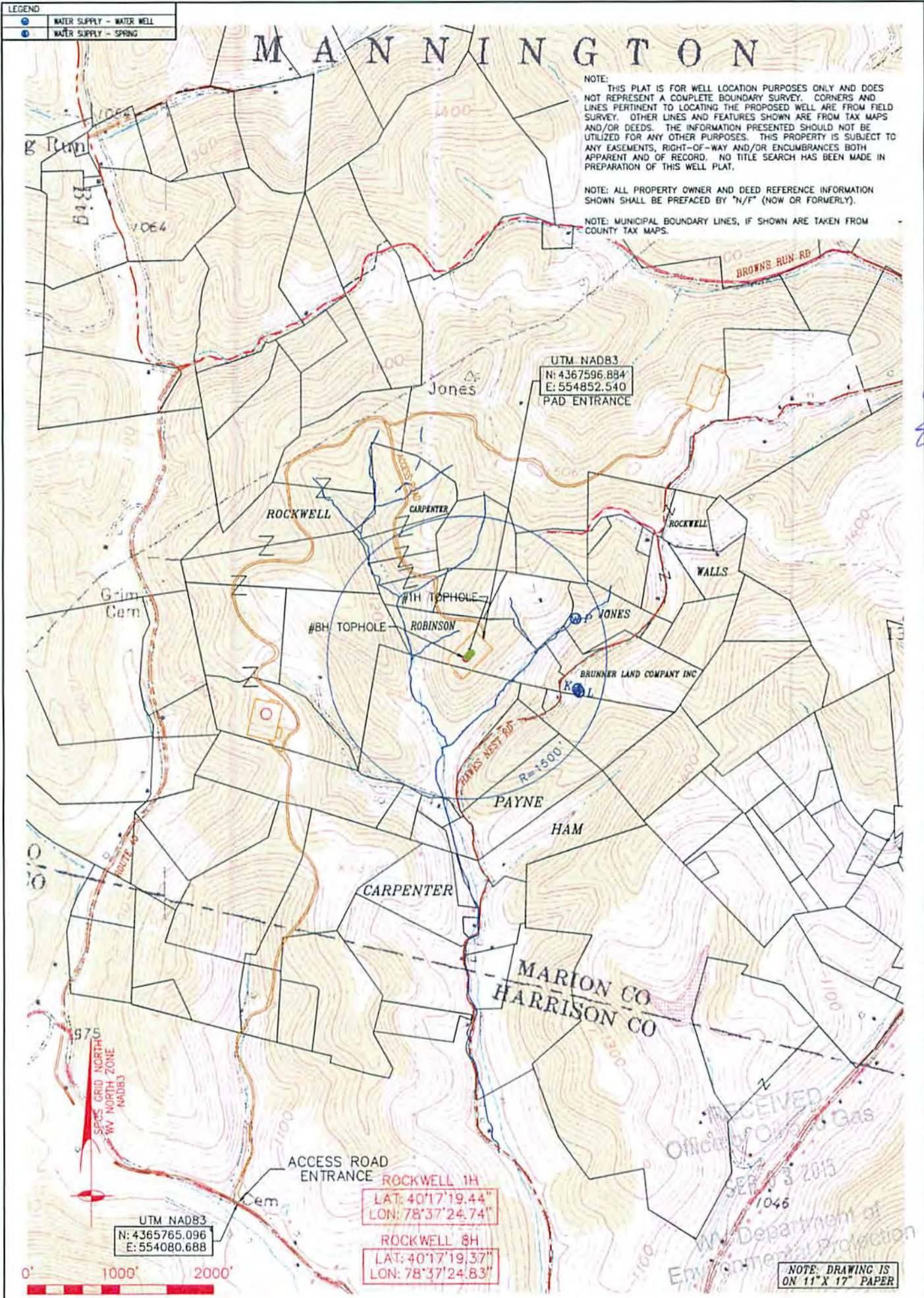
NOTE: THIS PLAT IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. CORNERS AND LINES PERTINENT TO LOCATING THE PROPOSED WELL ARE FROM FIELD SURVEY. OTHER LINES AND FEATURES SHOWN ARE FROM TAX MAPS AND/OR DEEDS. THE INFORMATION PRESENTED SHOULD NOT BE UTILIZED FOR ANY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

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

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

UTM NAD83
N: 4367596.884
E: 554852.540
PAD ENTRANCE

WPK
8-28-15



UTM NAD83
N: 4365765.096
E: 554080.688

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

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

NOTE: DRAWING IS ON 11" X 17" PAPER

REVISED	COMMENTS

TRI - COUNTY ENGINEERING, LLC
319 PAINTERSVILLE ROAD
HUNKER, PA 15639
VOICE: 724 / 635-0210 FAX: 724 / 635-0876



ROCKWELL UNIT WATER OVERALL			
XTO ENERGY INC.			
DRAWN BY:	DATE:	MANNINGTON TOWNSHIP	
BMK	8/12/15	MARION COUNTY, WEST VIRGINIA	
SCALE:	SHEET	FILE NO.	
1" = 1000'	1	XTO0G57-09	

10/23/2015

XTO ENERGY INC.

XTOOG57-09

ROCKWELL WATER OFFSET

(1500' OFFSET)

8/13/2015

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

04902408

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SEP 08 2015
MVC Department of
Environment and
Natural Resources

8379'
(Scale: 1" = 2000')

993'

Longitude: 80°20'00"

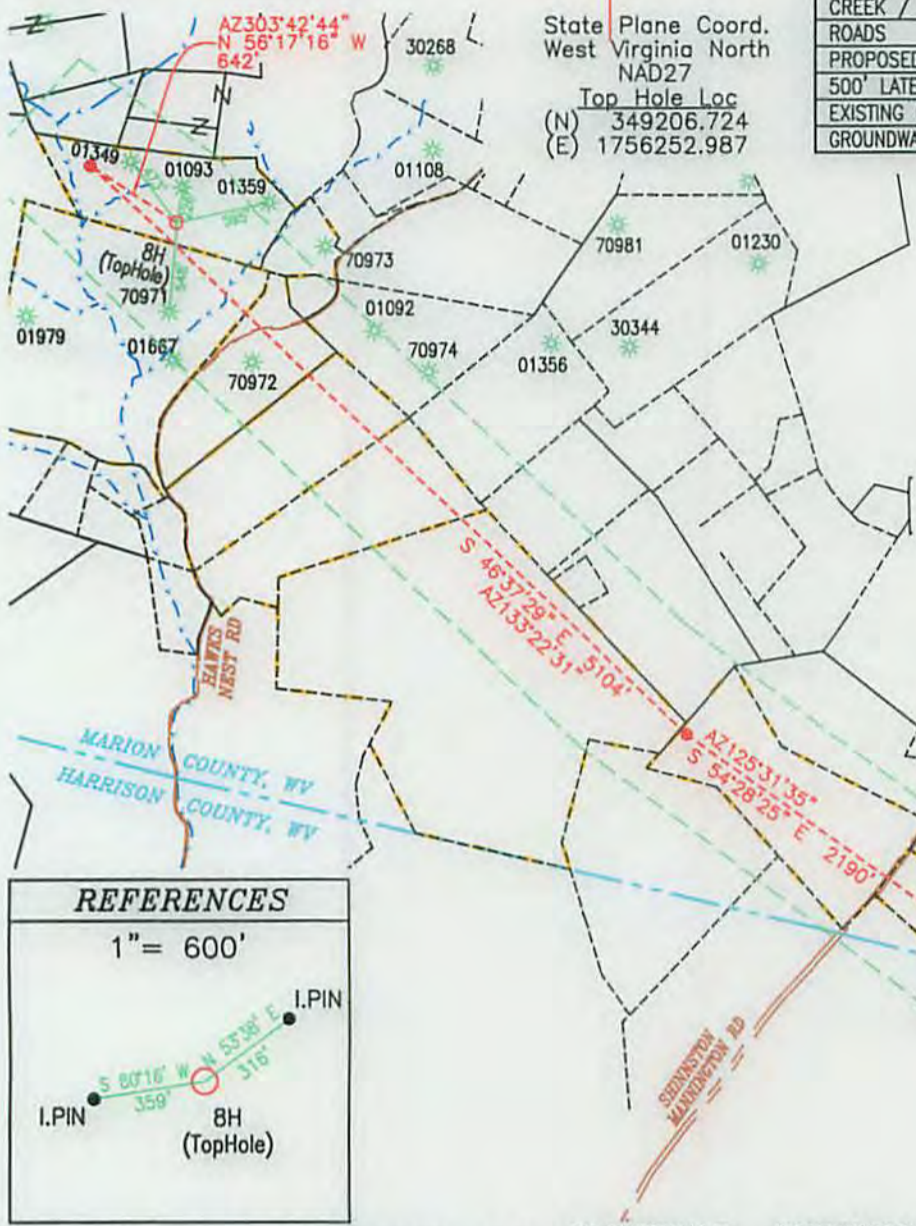
(Scale: 1" = 2000')

ROCKWELL 8H

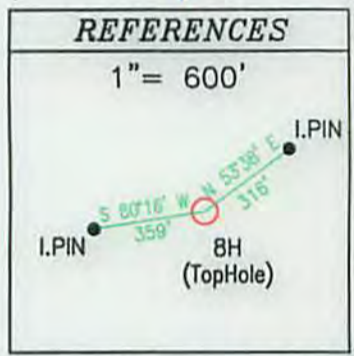
Latitude: 39°27'30"

LEGEND	
LEASE BOUNDARY	
SURFACE BOUNDARY	
CREEK / STREAM	
ROADS	
PROPOSED LATERAL	
500' LATERAL OFFSET	
EXISTING GAS WELL	
GROUNDWATER SOURCE / WATER SUPPLY	

State Plane Coord.
West Virginia North
NAD27
Top Hole Loc
(N) 349206.724
(E) 1756252.987



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



TRI-COUNTY ENGINEERING, LLC 319 PAINTERSVILLE RD. HUNKER, PA 15639 TCE@TRICOUNTYENG.COM (724) 635-0210 **PAGE 1 of 2**

FILE # XTO-OG57
DRAWING # OG57-09-8H
SCALE: 1" = 1200'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: DIRECT GPS

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

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



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

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

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

WATERSHED: BINGAMON CREEK WATERSHED ELEVATION: 1246' (PROPOSED GRADE)
COUNTY/DISTRICT: MARION/MANNINGTON QUADRANGLE SHINNSTON 7.5'
SURFACE OWNER ALLEN H. ROBINSON ACREAGE 18.3062
OIL & GAS ROYALTY OWNER: ALLEN H. ROBINSON ACREAGE 290.5487

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

TARGET FORMATION MARCELLUS ESTIMATED DEPTH: 7,500'/15,320'

WELL OPERATOR XTO ENERGY INC. DESIGNATED AGENT GARY BEALL
Address 810 HOUSTON STREET Address P.O. BOX 1008
City FORT WORTH State TX Zip Code 76102 City JANE LEW State WV Zip Code 26378



DATE: 8/27/2015 PLACE SEAL HERE

OPERATOR'S WELL #: ROCKWELL 8H

API WELL #: 47 49 02408
STATE COUNTY PERMIT
HGA

10/23/2015

3382'

(Scale: 1" = 2000') Latitude: 39°27'30"

Longitude: 80°20'00"

(Scale: 1" = 2000')

NOTES ON SURVEY:

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7. WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP.

ROCKWELL 8H

State Plane Coord.
West Virginia North
NAD27

Top Hole Loc
(N) 349206.724
(E) 1756252.987

LEGEND	
LEASE BOUNDARY	--- (dashed line)
SURFACE BOUNDARY	--- (dashed line)
CREEK / STREAM	--- (blue dashed line)
ROADS	--- (double line)
PROPOSED LATERAL	--- (dashed line)
500' LATERAL OFFSET	--- (dashed line)
EXISTING GAS WELL	⊛ (star symbol)
GROUNDWATER SOURCE / WATER SUPPLY	⊙ (circle with dot)

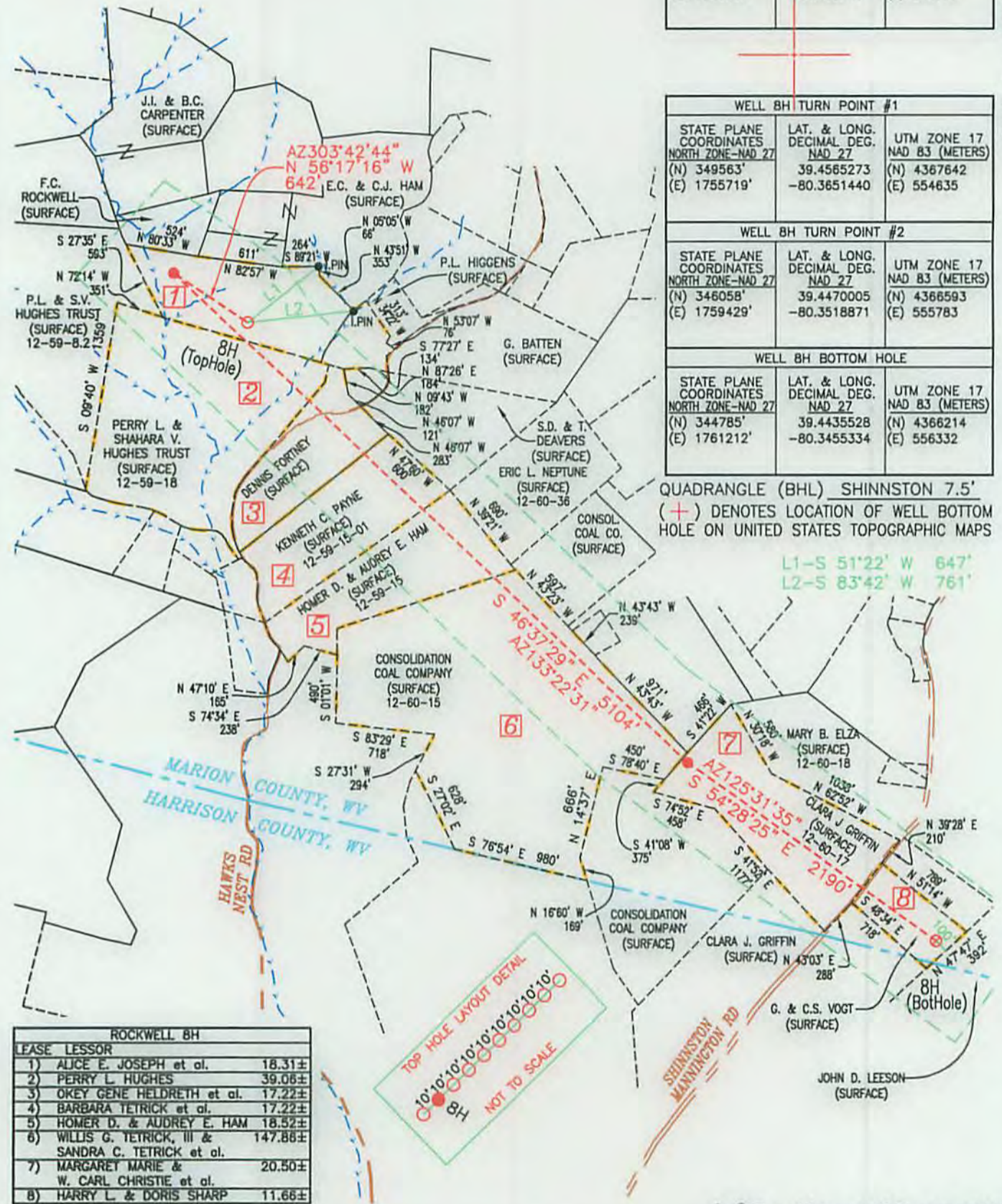
WELL 8H TOP HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 349207' (E) 1756253'	39.455563 -80.363241	(N) 4367536 (E) 554799

WELL 8H TURN POINT #1		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 349563' (E) 1755719'	39.4565273 -80.3651440	(N) 4367642 (E) 554635

WELL 8H TURN POINT #2		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 346058' (E) 1759429'	39.4470005 -80.3518871	(N) 4366593 (E) 555783

WELL 8H BOTTOM HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	LAT. & LONG. DECIMAL DEG. NAD 27	UTM ZONE 17 NAD 83 (METERS)
(N) 344785' (E) 1761212'	39.4435528 -80.3455334	(N) 4366214 (E) 556332

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



ROCKWELL 8H		
LEASE	LESSOR	ACRES
1)	ALICE E. JOSEPH et al.	18.31±
2)	PERRY L. HUGHES	39.06±
3)	OKEY GENE HELDRETH et al.	17.22±
4)	BARBARA TETRICK et al.	17.22±
5)	HOMER D. & AUDREY E. HAM	18.52±
6)	WILLIS G. TETRICK, III & SANDRA C. TETRICK et al.	147.88±
7)	MARGARET MARIE & W. CARL CHRISTIE et al.	20.50±
8)	HARRY L. & DORIS SHARP	11.66±



API: 47-049-02408 HWA



XTO ENERGY
810 HOUSTON STREET
FORT WORTH, TX 76102

0' 1000'
SCALE: 1" = 1000'

TRI-COUNTY ENGINEERING, LLC
An ENERCON Company
319 Paintersville Road
Hunker, PA 15639
www.tricountyeng.com

Voice: (724) 635-0210
Fax: (724) 635-0876

10/23/2015

SUPPLEMENTAL SURFACE & LESSOR EXHIBIT

ROCKWELL 8H

DRAWN BY: MRC
DATE: 8/27/15
SCALE: 1" = 1000'

MANNINGTON DISTRICT,
MARION COUNTY, WEST VIRGINIA

SHEET: 2 OF 2
FILE NO. 0657-09

04902408

WW-6A1
(5/13)

Operator's Well No. Rockwell 8H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
1	Alice E. Joseph, single et al	Exploration Partners, LLC	1/8	965/929
2	Perry L. Hughes	Exploration Partners, LLC	1/8	1006/833
3	Okey Gen Heldreth et al	XTO Energy Inc.	1/8	1150/485
4	Barbara Tetrick et al	XTO Energy Inc.	1/8	1077/300
5	Homer D. & Audrey E. Ham et al	XTO Energy Inc.	1/8	1145/218

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

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

Well Operator: XTO Energy Inc.

By: _____

Its: _____

Production Superintendent

ROCKWELL 8H

04902408

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 Onondaga County
 Sept 03 2015
 Department of Environmental Conservation

TMP	Deed Book	Page	Lessor	Lessee
1	965	929	Alice E. Joseph, single	Exploration Partners, LLC Exploration Partners assigns all depths from the surface to the bottom of the uppermost member of the Onondaga Group to Linn Energy at 32-151, and Linn assigns the same to XTO Energy at 33-200.
	1150	231	Allen H. Robinson	XTO Energy Inc.
2	1006	833	Perry L. Hughes, a married person	Exploration Partners, LLC Exploration Partners assigns all depths from the surface to the TOP of the uppermost member of the Onondaga Group to Linn Energy at 32-151, and Linn assigns the same to XTO Energy at 33-200.
3	1150	485	Okey Gene Heldreth, a married man dealing in his sole and separate property	XTO Energy Inc.
	1150	467	Sandra Haggerty, a widow by death not having since remarried	XTO Energy Inc.
	1150	470	Downa Dean Wingard, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1150	479	Dorothy Lee Martin, a widow by death not having since remarried	XTO Energy Inc.
	1150	476	Jill E. Cunningham Heldreth, a widow by death not having since remarried	XTO Energy Inc.
	1150	473	David Okey Arnett, a married man dealing in his sole and separate property	XTO Energy Inc.
	1150	464	Nancy Petitto, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1150	461	Nancy J. Salai, a divorced woman not having since remarried	XTO Energy Inc.

	1157	775	Jeffrey Bissell, a married man dealing in his sole and separate property	XTO Energy Inc.
	1156	28	Craig William Bissell, a married man dealing in his sole and separate property	XTO Energy Inc.
	1156	34	Marc Bissell, a married man dealing in his sole and separate property	XTO Energy Inc.
	1157	784	Lois M. Savage, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1157	772	Ray C. Haggerty, a married man dealing in his sole and separate property	XTO Energy Inc.
	1157	769	Dean E. Haggerty, a married man dealing in his sole and separate property	XTO Energy Inc.
	1161	870	Blanche J. Beardmore, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1158	735	Denise E. Burgy, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1158	762	Linda Miller and Vincent Miller, wife and husband	XTO Energy Inc.
	1158	747	Charles W. Henderson Jr. and Jacqueline Henderson, husband and wife	XTO Energy Inc.
	1157	790	Catherine Y. Shultz, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1158	771	Brian D. Swain, a married man dealing in his sole and separate property	XTO Energy Inc.
	1158	777	James Haggerty, a married man dealing in his sole and separate property	XTO Energy Inc.
	1158	774	John Haggerty, a married man dealing in his sole and separate property	XTO Energy Inc.
	1159	618	Debra Christine Knight a/k/a Debra Christine Troxell Knight, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1158	744	Gene W. Henderson and Mary E. Henderson, husband and wife	XTO Energy Inc.
	1158	741	Carolyn Eddy, a married man dealing in his sole and separate property	XTO Energy Inc.
	1164	566	Earl Raymond Sturm, a married man dealing in his sole and separate property	XTO Energy Inc.
	1150	482	Madonna Lee Matheny, a widow by death not having since remarried	XTO Energy Inc.

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	1168	520	Haggerty Family Trust, by David C. Haggerty a/k/a Carol David Haggerty, as Trustee	XTO Energy Inc.
	1175	813	James M. Fortney and Diana K. Fortney, husband and wife	XTO Energy Inc.
	1175	816	Donald M. Fortney	XTO Energy Inc.
	1175	792	Robert J. Doster and Judy K. Doster, husband and wife	XTO Energy Inc.
	1175	163	Theodore L. Bissell a/ka Ted Bissell, a married man dealing in her sole and separate property	XTO Energy Inc.
	1174	499	Mary Bissell Hogue a/k/a Mary Hogue, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1174	496	Cindy Bissell, a single woman	XTO Energy Inc.

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4	1077	300	Barbara Tetrick, a single woman	XTO Energy Inc.
	1108	804	Shirley F. Reese, a widow	XTO Energy Inc.
	1088	917	Carie L. Morgan, a widow	XTO Energy Inc.
	1093	79	Barbara Joe Ann Wagner, a single woman	XTO Energy Inc.
	1093	67	Janet Sue Nutter and Roy S. Nutter, her husband	XTO Energy Inc.
	1096	756	John G. Heldreth and Rita L. Heldreth, his wife	XTO Energy Inc.
	1109	907	Georgia Matheny Estate, by David Matheny, acting as Executor	XTO Energy Inc.
	1116	31	Madonna Lee Matheny, a widow	XTO Energy Inc.
	1117	731	Edward Lee Robinson and Anita H. Robinson, his wife	XTO Energy Inc.
	1122	477	Catherine Martin ,f/k/a Catherine Kerns and Calvin Martin, her husband	XTO Energy Inc.
	1117	288	David L. Heldreth and Karen Heldreth, his wife	XTO Energy Inc.
	1149	217	Avis Wallace, a married man dealing in his sole and separate property	XTO Energy Inc.
	1149	226	Hester J. Long, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1166	718	Richard K. Robinson, a married man dealing in his sole and separate property	XTO Energy Inc.
	1170	606	Harold R. Lane, a divorced man not having since remarried	XTO Energy Inc.

5	1145	218	Homer D. Ham and Audrey E. Ham, husband and wife	XTO Energy Inc.
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6	(Marion Co.) 813	960	Willis G. Tetrick, III, and Sandra C. Tetrick, his wife; James M. Sutton and Deborah A. Sutton, his wife; John Y. Sutton and Carolyn A. Sutton, his wife; and Amy T. Buckley and Christopher B. Buckley, her husband	<p>Consolidated Gas Supply Corporation Ownership is subject to Correction Assignment being executed and recorded. On June 5, 2013, (Assignment 45-444 Marion Co., Assignment 1513-98 Harrison Co.) EQT Production Company assigned to XTO Energy Inc., all RT&I in and to the described leases on Exhibit "A", but only as to depths and formations which are defined collectively as to those depths covered by the leases from 300 feet above the Top of the Tully Formation to 100 feet below the Top of the Onondaga Formation. The Exhibit "A" includes the Ernest E. Berry, et al OGL 1018-1180, and the Virginia A. Tetrick, et al OGL 1018-1188. The leases as described have expired. The current and operative leases are:</p> <ol style="list-style-type: none"> 1. Ernest E. Berry, et al - DB 1072-246 (Harrison Co.) DB 815-493 (Marion Co.) 2. Willis G. Tetrick, et al - DB 1063-296 (Harrison Co.) DB 813-960 (Marion Co.) <p>The Correction Assignment should also omit Harrison Co. Parcel No. 09-146-10.1, this parcel is now known as Marion Co. Parcel No. 12-60-15.</p> <p>NOTE: Corrective Amendment of oil and gas leases at DB 45-626. Correcting the OGL recital of the operative leases.</p>
	(Harrison Co.) 1063	296		

*see attached page

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 Environmental Protection

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	(Marion Co.) 815	493	Ernest E. Berry and Shirley Berry, his wife; and John C. Berry and Lyda G. Berry, his wife;	Consolidated Gas Supply Corporation Ownership is subject to Correction Assignment being executed and recorded. On June 5, 2013, (Assignment 45-444 Marion Co., Assignment 1513-98 Harrison Co.) EQT Production Company assigned to XTO Energy Inc., all RT&I in and to the described leases on Exhibit "A", but only as to depths and formations which are defined collectively as to those depths covered by the leases from 300 feet above the Top of the Tully Formation to 100 feet below the Top of the Onondaga Formation. The Exhibit "A" includes the Ernest E. Berry, et al OGL 1018-1180, and the Virginia A. Tetrick, et al OGL 1018-1188. The leases as described have expired. The current and operative leases are: 1. Ernest E. Berry, et al - DB 1072-246 (Harrison Co.) DB 815-493 (Marion Co.) 2. Willis G. Tetrick, et al - DB 1063-296 (Harrison Co.) DB 813-960 (Marion Co.) The Correction Assignment should also omit Harrison Co. Parcel No. 09-146-10.1, this parcel is now known as Marion Co. Parcel No. 12-60-15. NOTE: Corrective Amendment of oil and gas leases at DB 45-626. Correcting the OGL recital of the operative leases.
	(Harrison Co.) 1072	246	Lena Griffin McBee	

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7	939	358	Margaret Marie Christie and W. Carl Christie, her husband	Trio Petroleum Corp. Trio merged into Waco Holding at 56-879, merged to Waco Oil and Gas at 56-889, to Linn Energy at 25-638, and to XTO Energy at 33-200.
	939	483	W. Gail Griffin and D. Virginia Griffin, his wife	Trio Petroleum Corp. Trio merged into Waco Holding at 56-879, merged to Waco Oil and Gas at 56-889, to Linn Energy at 25-638, and to XTO Energy at 33-200.

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	939	356	Glen T. Griffin and Clara Jean Griffin, his wife	Trio Petroleum Corp. Trio merged into Waco Holding at 56-879, merged to Waco Oil and Gas at 56-889, to Linn Energy at 25-638, and to XTO Energy at 33-200.
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8	972	75	Harry L. Sharp and Doris Sharp, wife	Exploration Partners, LLC Exploration Partners assigns all depths from the surface to the TOP of the uppermost member of the Onondaga Group to Linn Energy at 32-151, and Linn assigns the same to XTO Energy at 33-200.
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MN Department of
Energy

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Consolidated Gas Supply Corporation to EQT Production Company

- By Assignment dated March 1, 1984, effective January 1, 1984, and recorded in the Recorder's Office of Harrison County, West Virginia in Deed Book 1136, Page 250, Consolidated Gas Supply Corporation assigns its interest in the Lease to Consolidated Gas Transmission Corporation;
- By Assignment dated October 4, 1995, effective October 1, 1995, recorded in the Recorder's Office of Marion County, West Virginia in Assignment Book 16, Page 993, and in the Recorder's Office of Harrison County in Deed Book 1276, Page 1187, CNG Transmission Corporation, as successor-in-interest to Consolidated Gas Transmission Corporation as evidenced by name change as filed with the West Virginia Secretary of State on January 13, 1988, assigns the Lease to Eastern States Oil & Gas, Inc.;
- By Certificate of Merger dated October 4, 1995, effective August 20, 1995, recorded in the Recorder's Office of Marion County, West Virginia in Book 53, Page 96, and recorded in the Recorder's Office of Harrison County, West Virginia in AOI Book 58, Page 93, Eastern States Oil & Gas, Inc., merges with and into Blazer Energy Corp., and subsequent Articles of Amendment changing its name from Blazer Energy Corp. to Eastern States Oil & Gas, Inc.;
- Eastern States Oil & Gas, Inc., changed its name to Equitable Production - Eastern States, Inc. and merged into Equitable Production Company, the surviving company, and changed its name to EQT Production Company.
- By Assignment dated effective June 5, 2013, recorded in the Recorder's Office of Marion County, West Virginia in Assignment Book 45, Page 444, and recorded in the Recorder's Office of Harrison County, West Virginia at Deed Book 1513, Page 98; and, by Corrective Amendment to Assignment of Oil and Gas Leases recorded in the Recorder's Office of Marion County, West Virginia in Assignment Book 45, Page 626, and recorded in the Recorder's Office of Harrison County, West Virginia at Deed Book 1515, Page 686, EQT Production Company assigns the Lease to XTO Energy Inc., but only insofar as 300 feet above the top of the Tully Formation which occurs at a true vertical depth of 7,289 feet in well log 47049019930000, located in Marion County, West Virginia, down to 100 feet below the top of the Onondaga Formation, which occurs at a true vertical depth of 7,550 feet in well log 47049019930000, located in Marion County, West Virginia;

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04902408



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

August 12, 2015

Office of Oil & Gas
WVDEP
601 57th Street
Charleston, WV 25304

RE: Rights to Drill Under Road - Hughes

To Whom It May Concern,

Based on extended research by XTO Energy's Land Department, and their brokers and title attorneys, we have all necessary mineral rights under Marion County Route 40/5 and Route 11, in the location of our planned well bore's for the Rockwell 8H.

Sincerely,

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

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

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August 13, 2015
An ExxonMobil Subsidiary
WV Dept of Environmental Protection
10/23/2015

WW-6AC
(1/12)

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

Date of Notice Certification: 8/31/15

04902408
API No. 47- _____
Operator's Well No. Rockwell 8H
Well Pad Name: Rockwell Pad

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>554799</u>
County: <u>Marion</u>	UTM NAD 83 Northing: <u>4367536</u>
District: <u>Mannington</u>	Public Road Access: <u>Harrison County Rt. 3 (Robinson Wyatt Run)</u>
Quadrangle: <u>Shinnston 7.5'</u>	Generally used farm name: <u>Allen Robinson</u>
Watershed: <u>Bingamon Creek</u>	

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

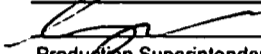
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WV Dept of Environmental Protection

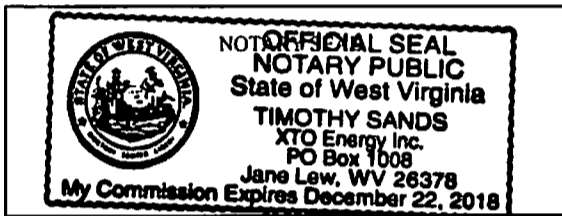
04902408

WW-6AC
(1/12)

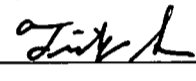
Certification of Notice is hereby given:

THEREFORE, I Gary Beall, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

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



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

 Notary Public

My Commission Expires 12/22/18

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WW-6A
(9-13)

04902408

API NO. 47- _____
OPERATOR WELL NO. Rockwell 8H
Well Pad Name: Rockwell Pad

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

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

Date of Notice: 8/31/15 Date Permit Application Filed: 9/2/15

Notice of:

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

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

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

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

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

SURFACE OWNER(s)

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

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

Name: David Webb
Address: 931 Joeltown Rd.
Mannington, WV 26582
Name: Fara May Webb
Address: 1084 Joeltown Rd.
Mannington, WV 26582

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

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

COAL OPERATOR

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

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

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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	Rockwell	
Landowners	Allen Robinson, 9572 Newton Falls Rd, Ravanna, OH 44266	
	David Webb, 931 Joetown Rd., Mannington, WV 26582	
	Fara May Webb, 1084 Joetown Rd, Mannington, WV 26852	04902408
	Faye Rockwell, 316 East Run Rd., Farmington, WV 26571	
	Gerald Lucas Heirs, 1457 Wyatt Rd., Mannington, WV 26582	
	James & Barbara Carpenter, 890 Hawks Nest Rd, Mannington, WV 26582	
	Janet Nutter, 324 Elmhurst St., Morgantown, WV 26505	
	John & Rita Heldreth, 12 Humanity St., Fairmont, WV 26554	
	Kathleen Crim Stone, 5117 New Carlisle Pike, Springfield, OH 45504	
	Perry Hughes, 70 Twin Creek Trl., Buffalo, MO 65622	
Coal Owners/Operators	Consolidation Coal Company, 1000 Consol Energy Drive, Canonsburg, PA 15317	
	Murray American Energy, attn: Troy Freels, 1 Bridge St, Monongah, WV 26554	
Water Owners	Brunner Land Company Inc., PO Box 98, Byesville, OH 43723	
	Maggie & Howard Jones, 752 Hawks Nest Rd, Mannington, WV 26582	
Within 625'	NA	

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WV Department of
Environmental Protection

04902408

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Rockwell 8H
Well Pad Name: Rockwell Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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API NO. 47- _____ - _____
OPERATOR WELL NO. Rockwell 8H
Well Pad Name: Rockwell Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th 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.**

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(8-13)

04902408

API NO. 47-

OPERATOR WELL NO. Rockwell 8H

Well Pad Name: Rockwell Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- 49-02408
OPERATOR WELL NO. Rockwell BH
Well Pad Name: Rockwell Pad

Notice is hereby given by:

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

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

Signed: [Signature] By: Tim Sanders Date: 10/19/15

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



Subscribed and sworn before me this 19 day of Oct., 2015.

Dianne Rickles Notary Public

My Commission Expires Sept. 26, 2018

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WV Department of
Environmental Protection

04902408

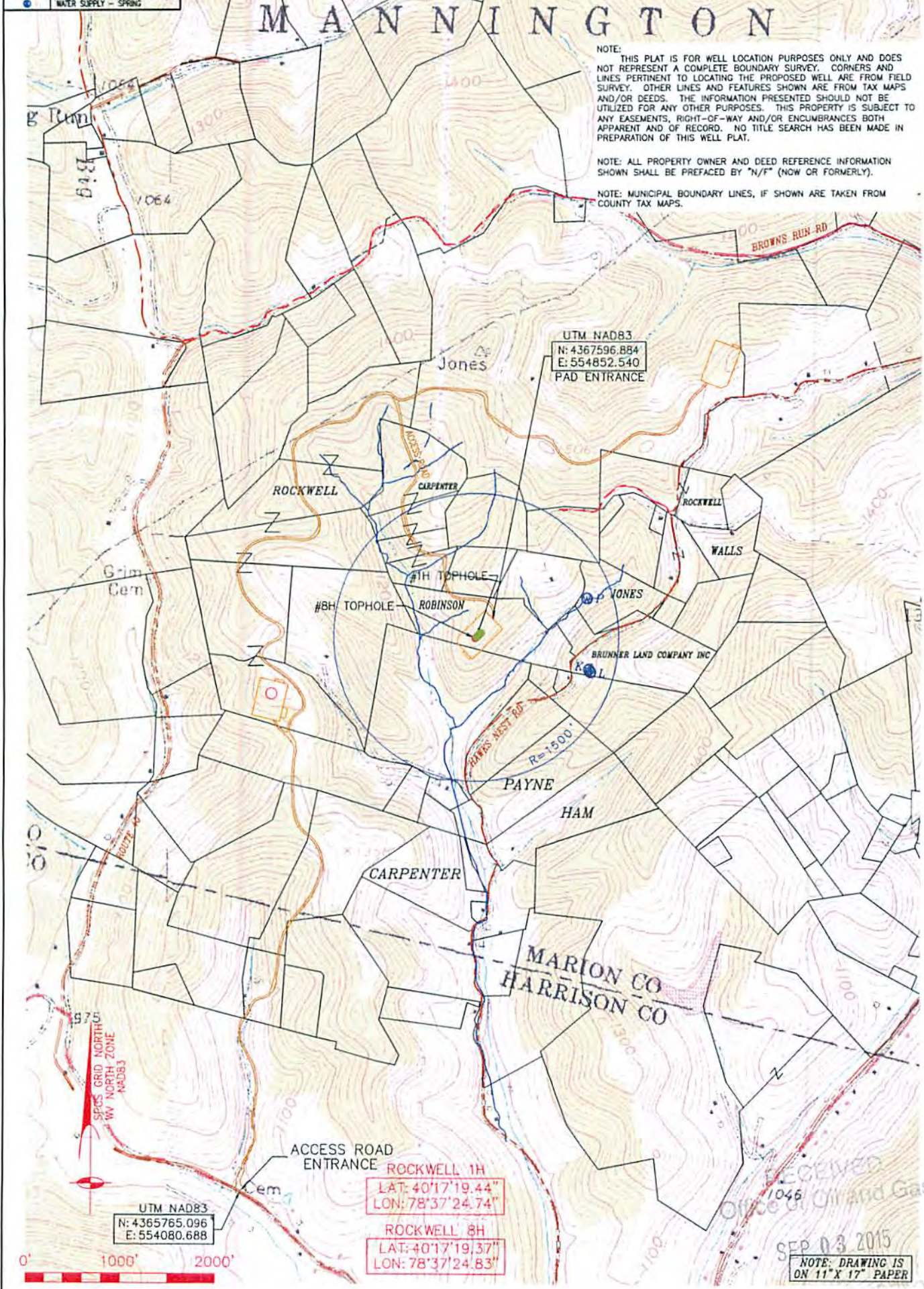
●	WATER SUPPLY - WATER WELL
○	WATER SUPPLY - SPRING

MANNINGTON

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

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

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



REVISED	COMMENTS

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



ROCKWELL UNIT	
WATER OVERALL	
XTO ENERGY INC.	
DRAWN BY: BMK	DATE: 8/12/15
MANNINGTON TOWNSHIP MARION COUNTY, WEST VIRGINIA	
SCALE: 1" = 1000'	SHEET 1
FILE NO. XTOOG57-09	

10/23/2015

XTO ENERGY INC.

XTOOG57-09

ROCKWELL WATER OFFSET

(1500' OFFSET)

04902408

POINT	SOURCE	NAME	MAILING ADDRESS	CITY	STATE	ZIP	BEARING	DISTANCE	PARCEL ID WITHIN 3000'
K	WELL & CITY	BRUNNER LAND COMPANY INC	P O BOX 98	BYESVILLE	OH	43723	S 76°03'55" E	1255	12-60-1
L	SPRING DEVELOPED	BRUNNER LAND COMPANY INC	P O BOX 98	BYESVILLE	OH	43723	S 75°03'14" E	1277	12-60-1
P	WELL	MAGGIE R & HOWARD R JONES	752 HAWKS NEST RD	MANNINGTON	WV	26582	N 70°03'44" E	1273	12-60-2,2

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 8/13/2015
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 WV Department of Environment and Natural Resources

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

04902408

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

Date of Notice: August 7, 2015 **Date of Planned Entry:** _____

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Allen H. Robinson /

Address: 9572 Newton Falls Rd
Ravanna, OH 44266

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: *See Attached Form

Address: _____

MINERAL OWNER(s)

Name: Alice E. Joseph Estate

Address: P.O. Box 59
Bruceston Mills, WV 26525

*please attach additional forms if necessary

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.455629, -80.363076</u>
County: <u>Marion</u>	Public Road Access: <u>CR 40/4</u>
District: <u>Mannington</u>	Watershed: <u>Coal Lick Run</u>
Quadrangle: <u>Shinnston 7.5</u>	Generally used farm name: <u>Rockwell 8H</u>

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

Notice is hereby given by:

Well Operator: <u>XTO Energy Inc.</u>	Address: <u>P.O. Box 1008</u>
Telephone: <u>304-884-6000</u>	<u>Jane Lew, WV 26378</u>
Email: _____	Facsimile: <u>304-884-6008</u>

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WV Dept. of Environmental Protection

Coal Owners:

04902408

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

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Environmental Protection

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

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

Date of Notice: August 7, 2015 **Date of Planned Entry:** _____

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

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

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: N/A Access Route Only
Address: _____

MINERAL OWNER(s)

Name: N/A Access Route Only
Address: _____

*please attach additional forms if necessary

Notice is hereby given:

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

State: West Virginia
County: Marion
District: Mannington
Quadrangle: Shinnston 7.5

Approx. Latitude & Longitude: 39.455629, -80.363076
Public Road Access: CR 40/4
Watershed: Coal Lick Run
Generally used farm name: Rockwell 8H

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

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Landowners	✓ Allen Robinson, 9572 Newton Falls Rd, Ravanna, OH 44266	
for Access Road	✓ David Webb, 931 Joetown Rd., Mannington, WV 26582	0490240
	✓ Fara May Webb, 1084 Joetown Rd, Mannington, WV 26852	
	✓ Faye Rockwell, 316 East Run Rd., Farmington, WV 26571	
	✓ Gerald Lucas Heirs, 1457 Wyatt Rd., Mannington, WV 26582	
	✓ James & Barbara Carpenter, 890 Hawks Nest Rd, Mannington, WV 26582	
	✓ Janet Nutter, 324 Elmhurst St., Morgantown, WV 26505	
	✓ John & Rita Heldreth, 12 Humanity St., Fairmont, WV 26554	
	✓ Kathleen Crim Stone, 5117 New Carlisle Pike, Springfield, OH 45504	
	✓ Perry Hughes, 70 Twin Creek Trl., Buffalo, MO 65622	

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 Environmental Protection
 10/23/2015

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WW-6A5
(1/12)

Operator Well No. Rockwell 8H

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

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

Date of Notice: 8/31/15 Date Permit Application Filed: 9/2/15

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

CERTIFIED MAIL
RETURN RECEIPT REQUESTED HAND
DELIVERY

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

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

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

Name: See attached
Address: _____

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 554799
County: Marion Northing: 4367536
District: Mannington Public Road Access: Harrison County Rt. 3 (Robinson Wyatt Run)
Quadrangle: Shinnston 7.5' Generally used farm name: Allen Robinson
Watershed: Bingamon Creek

This Notice Shall Include:

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

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

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

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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

04902408

10/23/2015

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Office of Oil and Gas
SEP 03 2015

WV Department of
Environmental Protection

04902408



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Earl Ray Tomblin
Governor

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

July 21, 2015

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

Subject: DOH Permit for the Rockwell Well Pad, Marion County
Rockwell 8H

Dear Mr. Martin,

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

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

Very Truly Yours,

A handwritten signature in cursive script that reads "Gary K. Clayton".

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

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

E.E.O./AFFIRMATIVE ACTION EMPLOYER

10/23/2015

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SEP 03 2015
WV Department of
Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	XTO	Carrier/Base Fluid	Water	7732-18-5	100.00%	88.35%	RECEIVED Office of Oil and Gas SEP 03 2015 M/V Department of Environmental Protection
Sand (Proppant)	Universal	Proppant	Silica Substrate		100.00%	11.20%	
Hydrochloric Acid (10%)	PPG Industries	Acidizing	Hydrochloric Acid	7647-01-0	10.00%	0.00%	
			Other - (non-hazardous)		85.00%	0.00%	
Hydrochloric Acid (7.5%)	PPG Industries	Acidizing	Hydrochloric Acid	7647-01-0	7.50%	0.03%	
			Other - (non-hazardous)		92.50%	0.34%	
Acid Inhibitor, Unihib G	GeoSafe	Acid Inhibitor	Proprietary Blend Surfactants		35.00%	0.00%	
			Short Chained Glycol Ether	112-34-5	50.00%	0.00%	
			Ethoxylated alcohol		35.00%	0.00%	
Biocide, EC6116A	Nalco	Biocide	Dibromoacetone nitrile	3252-43-5	5.00%	0.00%	
			2,2-Dibromo-3-nitropropionamide	10222-01-2	30.00%	0.00%	
			Polyethylene Glycol	25322-68-3	60.00%	0.01%	
			Other - (non-hazardous)		5.00%	0.00%	
Clay Stabilizer, Cla-Chek G	Shrieve	Clay Stabilizer	Water	7732-18-5	15.00%	0.00%	
			Other - (non-hazardous)		85.00%	0.00%	
Friction Reducer, Unislick ST-50	CESI Chemical	Friction Reducer	Petroleum distillates, hydrotreated light	64742-47-8	30.00%	0.02%	
			Other - (non-hazardous)		70.00%	0.04%	
Scale Inhibitor, ScaleHib A	Nalco	Scale Inhibitor	Ethylene Glycol	107-21-1	30.00%	0.00%	
			Other - (non-hazardous)		70.00%	0.01%	
Gel Breaker, LEB-10X	Universal	Gel Breaker	Ethylene Glycol	107-21-1	40.00%	0.00%	
			Other - (non-hazardous)		60.00%	0.00%	
Unigel 5F	Universal	Gel	Guar Gum	9000-30-0	99.00%	0.00%	
			Other - (non-hazardous)		1.00%	0.00%	
Slurry Gel, WGA-7 SLR	Universal	Gel	Guar Gum	9000-30-0	50.00%	0.00%	
			Petroleum Distillate	64742-47-8	55.00%	0.00%	
			Clay		5.00%	0.00%	
			Surfactant		5.00%	0.00%	
			Buffer		5.00%	0.00%	

4902408

4704902400

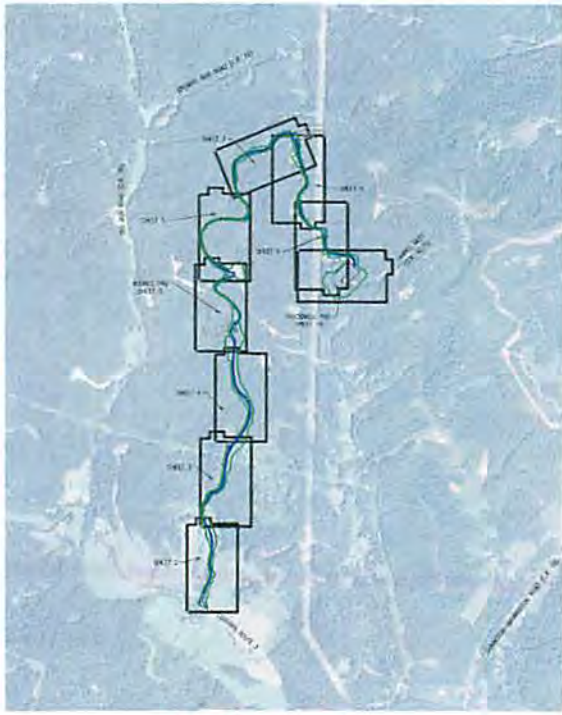
SEDIMENT CONTROL PLAN FOR THE ROCKWELL WELL PAD & ACCESS ROAD EAGLE & MANNINGTON DISTRICTS HARRISON & MARION COUNTIES, WEST VIRGINIA



SITE LOCATION MAP
SCALE 1" = 2000'
MAP REF: SHENKSTON & WALLACE, WV
13 S 2 S 74 NORTH QUAD

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

API# 4902363



DISTURBED ACREAGE		
PROPERTY OWNER	TAX I.D.	DISTURBED AREA
FRANK MAY WESS	09-148-05	1.292 AC
DAVID W. WESS	09-148-05.2	2.200 AC
ELWOOD W. LUCAS	12-59-19.2	0.100 AC
DRW FAMILY LIVING TRUST	12-59-30	1.983 AC
JOHN G & BETA I HELDRITH	12-59-10	0.003 AC
JANET NOTTIE & BARBARA WACHNER	12-59-12.5	0.800 AC
JOHN G & BETA I HELDRITH	12-59-10	1.700 AC
DRW FAMILY LIVING TRUST	12-59-55	0.040 AC
FAYE E ROCKWELL	12-59-09	1.600 AC
PERRY L. HUGHES	12-59-18	2.800 AC
FAYE C ROCKWELL	12-59-09	0.800 AC
PERRY L. HUGHES	12-59-02	1.800 AC
JAMIE T & BARBARA C CARPENTER	12-59-51	1.200 AC
JAMES I & BARBARA C CARPENTER	12-59-57	0.200 AC
JAMIE T & BARBARA C CARPENTER	12-59-53	0.700 AC
FAYE C ROCKWELL	12-59-24.1	0.800 AC
EDWARD E & JANE E BETHANIS	12-59-58	0.200 AC
ALLEN H ROBINSON - ROAD	12-59-6.1	1.300 AC
ALLEN H ROBINSON - PAD	12-59-6.1	5.400 AC
PERRY L. HUGHES - PAD	12-59-18	1.700 AC

REVISIONS		
NO.	DESCRIPTION	DATE
1	WVDEP COMMENTS	3/2/2015

MUTUAL RELATIONS INTERPRETING OFFERS NO WARRANTY & SHALL NOT BE HELD RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE INFORMATION CONTAINED HEREIN.

DRAWING INDEX		
PLAN	TITLE	SHEET NUMBER
SEDIMENT CONTROL PLAN	EAS CONTROL PLAN - COVER	SHEET 1
	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 2
	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 3
	ACCESS ROAD & FILL AREA 2	SHEET 4
	ACCESS ROAD & STOCKPILE AREAS	SHEET 5
	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 6
	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 7
	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 8
	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 9
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	ACCESS ROAD CROSS SECTIONS	SHEET 17
	ACCESS ROAD CROSS SECTIONS	SHEET 18
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DETAILS & NARRATIVE	DETAILS	SHEET 20
	DETAILS	SHEET 21
	DETAILS	SHEET 22
	NARRATIVE	SHEET 23
CONTAINMENT SET	PAD LAYOUT (DRILL PHASE)	SHEET 25
	PAD LAYOUT (FRAC PHASE)	SHEET 26
	DETAILS	SHEET 27

800 HOUSTON STREET
FORT WORTH, TX 76102

TRI-COUNTY ENGINEERING, LLC

714 Fairview Road
P.O. Box 18428
Fort Worth, TX 76118
www.tri-countyeng.com

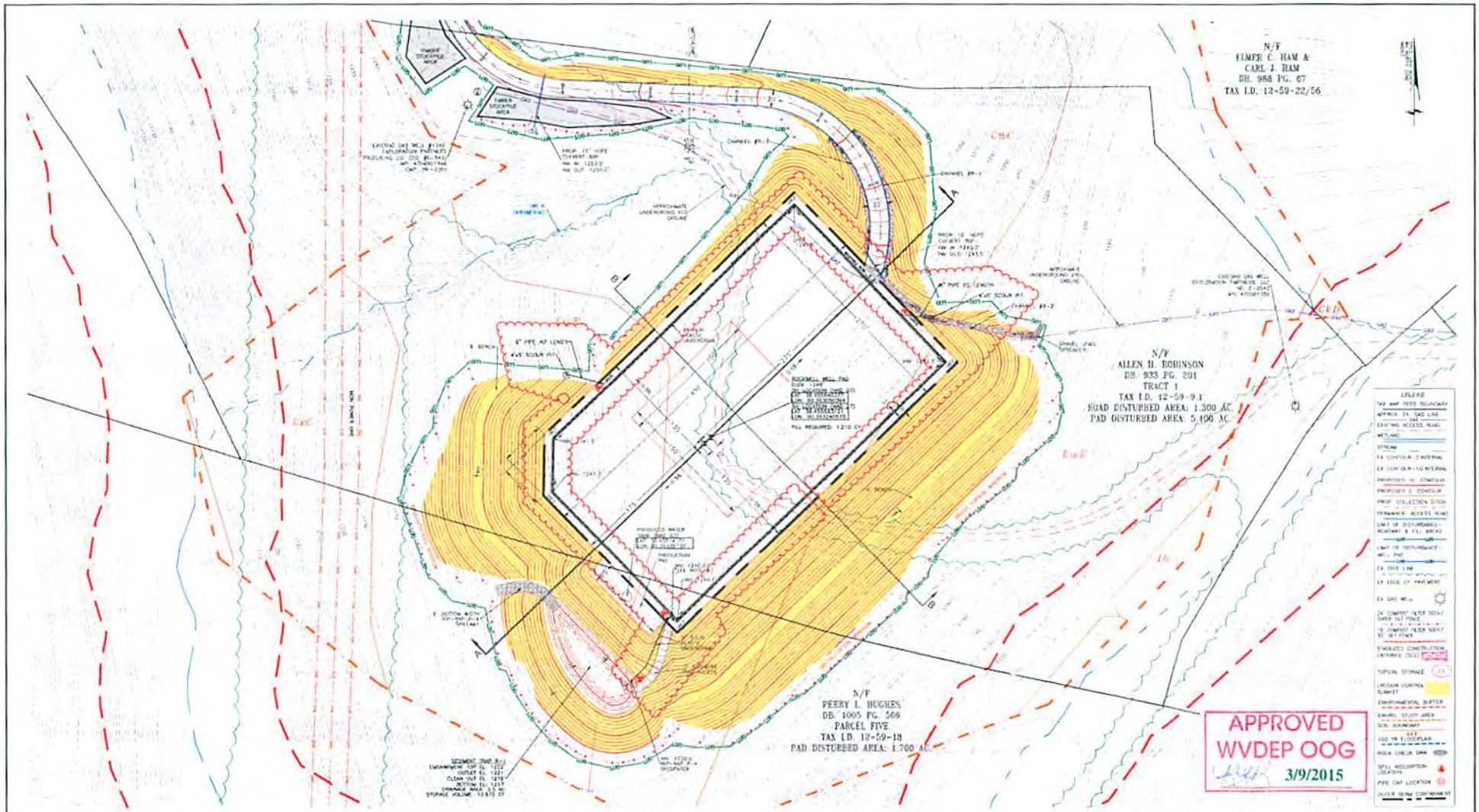
Phone: (817) 635-1011 Fax: (817) 635-1070

SEDIMENT CONTROL PLAN - COVER

ROCKWELL WELL PAD & ACCESS ROADS

Drawn by: M.S. Date: 8/22/14
Checked by: J.S. Date: 8/22/14
Scale: AS SHOWN
Title: SEDIMENT CONTROL PLAN - COVER

SHEET 1 OF 27



APPROVED
WVDEP OOG
 3/9/2015

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ADD COMMENTS 1	2/27/15	AJC
2	ADD COMMENTS 2	2/27/15	AJC

FINAL NOTES FOR THE CLIENT:
 1. THIS PLAN IS A PRELIMINARY DESIGN AND SHALL BE SUBJECT TO THE APPROVAL OF THE LOCAL AND STATE AGENCIES.
 2. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AGENCIES.
 3. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AGENCIES.
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 10. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AGENCIES.

STOP - CALL BEFORE YOU DIG!
 Miss Utility of West Virginia
 1-800-245-4848
 TICKETS: 131743800 & 131743891



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

TRI-COUNTY ENGINEERING, LLC
 218 PARKWAY ROAD
 FORT WORTH, TX 76102
 TEL: (817) 438-4210 FAX: (817) 438-4210
 WWW.TRI-ENGINEERING.COM

SEDIMENT CONTROL PLAN
ROCKWELL WELL PAD & ACCESS ROAD

DATE: 3/9/15
 DRAWN BY: M. J. JONES
 CHECKED BY: M. J. JONES
 SCALE: 1" = 50'

04902408

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



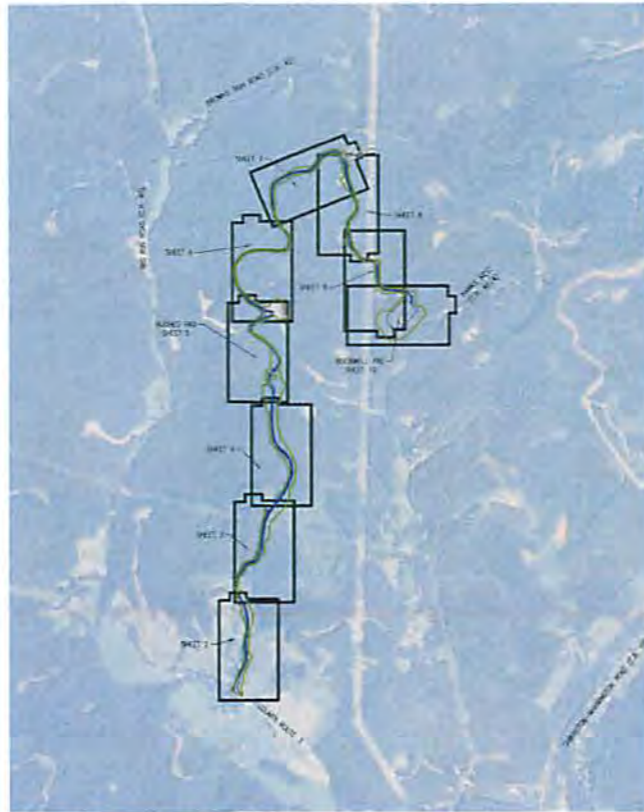
SITE LOCATION MAP MAP REF. SHINGSTON & WALLACE, WV
U.S.G.S. 7.5 MINUTE QUAD
SCALE 1" = 2000'

RECEIVED
Office of Oil and Gas

SEP 20 2015
WV Department of
Environmental Protection

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

API# 4902363



0 1000 2000 3000
SCALE 1" = 1000'

DISTURBED ACERAGE		
PROPERTY OWNER	TAX I.D.	DISTURBED AREA
FARA MAY WEBB	09-146-05	1.092 AC.
DAVID W WEBB	09-146-05.2	2.200 AC.
GERALD L LUCAS	12-59-9.2	0.100 AC.
CRM FAMILY LIVING TRUST	12-59-55	1.600 AC.
JOHN G & RITA L HELDRETH	12-59-10	0.003 AC.
JANET NUTTER & BARBARA WAZNER	12-59-10.5	0.800 AC.
JOHN G & RITA L HELDRETH	12-59-10	3.700 AC.
CRM FAMILY LIVING TRUST	12-59-55	0.040 AC.
FAYE C ROCKWELL	12-59-04	1.600 AC.
PERRY L HUGHES	12-59-16	2.800 AC.
FAYE C ROCKWELL	12-59-08	8.600 AC.
PERRY L HUGHES	12-59-8.2	1.400 AC.
JAMES I & BARBARA C CARPENTER	12-59-51	1.200 AC.
JAMES J & BARBARA C CARPENTER	12-59-52	0.200 AC.
JAMES I & BARBARA C CARPENTER	12-59-53	0.700 AC.
FAYE C ROCKWELL	12-59-24.1	0.600 AC.
DONALD E & JAMIE T RICHARDS	12-59-58	0.200 AC.
ALLEN H ROBINSON - ROAD	12-58-9.1	1.300 AC.
ALLEN H ROBINSON - PAD	12-58-9.1	5.400 AC.
PERRY L HUGHES - PAD	12-58-18	1.700 AC.

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

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

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	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 3
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	ACCESS ROAD, & STOCKPILE AREAS	SHEET 5
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	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

XTO ENERGY
810 HOUSTON STREET
FORT WORTH, TX 76102

TRI-COUNTY ENGINEERING, LLC
315 Riverchase Road
Hummel, PA 15629
www.TriCountyEng.com

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

SEDIMENT CONTROL PLAN - COVER

ROCKWELL WELL PAD & ACCESS ROADS

Project No: M/S Date: 8/22/14 Location: EAST DISTRICT, HARRISON COUNTY, MANNINGTON DISTRICT, MARION COUNTY, WEST VIRGINIA

Scale: AS NOTED Sheet: 1 of 27 File No: WJ 8 1208443 Date: 8/10/2014 810-0642-25,24,25

04902408

N/F
ELMER C. HAM &
CARL J. HAM
DB. 988 PG. 67
TAX I.D. 12-59-22/66

N/F
ALLEN H. ROBINSON
DB. 933 PG. 201
TRACT 1
TAX I.D. 12-59-9.1
ROAD DISTURBED AREA: 1.300 AC.
PAD DISTURBED AREA: 5.400 AC.

N/F
PERRY L. HUGHES
DB. 1005 PG. 566
PARCEL FIVE
TAX I.D. 12-59-18
PAD DISTURBED AREA: 1.700 AC.

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

APPROVED WVDEP OOG
3/9/2015

RECEIVED
Office of Oil and Gas

WRW
8-28-15
SEP 08 2015
WV Department of Environmental Protection

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	ISSUE COMMENTS	2/22/15	AJD
2	WVDEP COMMENTS	2/23/15	AJD

- SEDIMENT CONTROL PLAN AND PERMITS**
1. CONSTRUCTION ACTIVITIES THAT AFFECT STREAMS AND PUBLIC WATERS REQUIRE PERMITS AND CONSTRUCTION IS TO TAKE PLACE IN STREAMS OR BODIES WITHOUT THE NECESSARY PERMITS.
 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS TO MAINTAIN EROSION AND SILT CONTROL MEASURES TO STREAMS AND WATERS, AND TO OBTAIN ALL NECESSARY PERMITS TO MAINTAIN EROSION AND SILT CONTROL MEASURES TO STREAMS AND WATERS, AND TO OBTAIN ALL NECESSARY PERMITS TO MAINTAIN EROSION AND SILT CONTROL MEASURES TO STREAMS AND WATERS.
 3. IF PROJECT CHANGES REQUIRE NEW PERMITS, CONSULT WITH THE PERMITTING/AGENCY/AGENCY PRIOR TO CONSTRUCTION IN THESE AREAS. PROJECT CHANGES INSIDE ANY LAND DISTURBANCE OUTSIDE OF THE DELETED LIMIT OF DISTURBANCE, EVEN ADDITIONAL ACCESS ROADS AND PIPE STORAGE AREAS USED FOR THIS PROJECT.
 4. CONTRACTOR TO CONTACT UTILITY COMPANIES TO COORDINATE CROSSINGS AS POSSIBLY RELAYING.
 5. CONDUIT TO USE 6" HDPE RESISTERS AND 4" TO 6" AN 4" 22.5' DRAIN TO BE USED ONE FOOT TIE TO SHEET PILE TOWARD DOWNSTREAM.
 6. ENVIRONMENTAL FEATURES SHOWN OUTSIDE OF STUDY AREA ARE APPROXIMATED FROM AN AVAILABLE MAPPING A 1:50,000 SCALE MAP.
 7. ALL EXISTING UTILITIES SHOWN WITHIN STUDY AREA ARE APPROXIMATED FROM AN AVAILABLE MAP.
 8. NO UNNECESSARY REMOVAL OF SOILS OR VEGETATION.
 9. BEST MANAGEMENT PRACTICES (BMP) SHALL BE USED TO PREVENT EROSION AND SEDIMENTATION.
 10. PROPOSED BERM, DITCHES, AND APPURTENANCES SHALL BE INSTALLED PRIOR TO DRILLING AND COMPLETION OPERATIONS ON THE WELL PAD.
 11. NO DISCHARGE SHALL BE ALLOWED DURING DRILLING AND COMPLETION ACTIVITIES ON THE WELL PAD.
 12. ALL EXISTING GAS LINES TO BE CROSSED SHALL BE PROTECTED (SHIELD, ETC.) AND SHALL BE COORDINATED WITH UTILITY OWNER FOR CROSSING REQUIREMENTS.

STOP - CALL BEFORE YOU DIG!

Miss Utility of West Virginia

1-800-245-4848

TICKETS: 1317043352 & 1317043351

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



XTO ENERGY

810 HOUSTON STREET
FORT WORTH, TX 76102

GRAPHIC SCALE 1" = 50'

TRI-COUNTY ENGINEERING, LLC

319 Fairbanks Road
Haver, PA 15839
Phone: (724) 835-0210
Fax: (724) 835-0676

SEDIMENT CONTROL PLAN

ROCKWELL WELL PAD & ACCESS ROAD

NO.	DATE	REVISION	BY
1	8/21/14	ISSUE COMMENTS	WVDEP
2	12/24/14	WVDEP COMMENTS	WVDEP

Scale: 1" = 50'

Sheet: 10 of 10

Project: 1317043352

04902408

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



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

RECEIVED
Office of Oil and Gas

WRH
8-28-15
Department of
Environmental Protection



DISTURBED ACREAGE		
PROPERTY OWNER	TAX I.D.	DISTURBED AREA
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CRM FAMILY LIVING TRUST	12-59-55	1.600 AC.
JOHN G & RITA L HELDRETH	12-59-10	0.003 AC.
JANET NOTTER & BARBARA WAGNER	12-59-10.5	0.800 AC.
JOHN G & RITA L HELDRETH	12-59-10	3.700 AC.
CRM FAMILY LIVING TRUST	12-59-55	0.040 AC.
FAYE C. ROCKWELL	12-59-09	1.600 AC.
PERRY L. HUGHES	12-59-16	2.800 AC.
FAYE C. ROCKWELL	12-59-08	9.400 AC.
PERRY L. HUGHES	12-59-B.2	1.400 AC.
JAMES I & BARBARA C CARPENTER	12-59-51	1.200 AC.
JAMES I & BARBARA C CARPENTER	12-59-52	0.200 AC.
JAMES I & BARBARA C CARPENTER	12-59-53	0.700 AC.
FAYE C. ROCKWELL	12-59-24.1	0.600 AC.
DONALD E. & JAMIE T RICHARDS	12-59-58	0.200 AC.
ALLEN H ROBINSON - ROAD	12-59-9.1	1.300 AC.
ALLEN H ROBINSON - PAD	12-59-9.1	5.400 AC.
PERRY L. HUGHES - PAD	12-59-18	1.700 AC.

DRAWING INDEX		
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SEDIMENT CONTROL PLAN		
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SEDIMENT CONTROL PLAN	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 2
SEDIMENT CONTROL PLAN	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 3
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SEDIMENT CONTROL PLAN	ACCESS ROAD & STOCKPILE AREAS	SHEET 5
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SEDIMENT CONTROL PLAN	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 7
SEDIMENT CONTROL PLAN	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 8
SEDIMENT CONTROL PLAN	ACCESS ROAD TO ROCKWELL WELL PAD	SHEET 9
SEDIMENT CONTROL PLAN	ROCKWELL WELL PAD & ACCESS ROAD	SHEET 10
SEDIMENT CONTROL PLAN	ACCESS ROAD PROFILES	SHEET 11
SEDIMENT CONTROL PLAN	ACCESS ROAD PROFILES	SHEET 12
SEDIMENT CONTROL PLAN	PAD & STOCKPILE CROSS SECTIONS	SHEET 13
SEDIMENT CONTROL PLAN	ACCESS ROAD CROSS SECTIONS	SHEET 14
SEDIMENT CONTROL PLAN	ACCESS ROAD CROSS SECTIONS	SHEET 15
SEDIMENT CONTROL PLAN	ACCESS ROAD CROSS SECTIONS	SHEET 16
SEDIMENT CONTROL PLAN	ACCESS ROAD CROSS SECTIONS	SHEET 17
SEDIMENT CONTROL PLAN	ACCESS ROAD CROSS SECTIONS	SHEET 18
SEDIMENT CONTROL PLAN	ROCKWELL ACCESS ROAD CROSS SECTIONS	SHEET 19
DETAILS		
DETAILS	DETAILS	SHEET 20
DETAILS	DETAILS	SHEET 21
DETAILS	DETAILS	SHEET 22
DETAILS	NARRATIVE	SHEET 23
DETAILS	NARRATIVE	SHEET 24
DETAILS		
DETAILS	PAD LAYOUT (DRILL PHASE)	SHEET 25
DETAILS	PAD LAYOUT (PRAC PHASE)	SHEET 26
DETAILS	DETAILS	SHEET 27

APPROVED
WVDEP OOG
7/21/2015

Rockwell 5H-API-47-049-02363

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

NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THIS PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE CORRECT LOCATIONS. THE DEPTERSON OF UTILITIES HEREIN DOES NOT RELIEVE THE CONTRACTOR(S) WHO WILL BE PERFORMING EXCAVATIONS FROM COMPLYING WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS. SAID REQUIREMENTS CAN BE SATISFIED, IN PART, BY CONTACTING THE MWMU AT 1-800-245-8446.



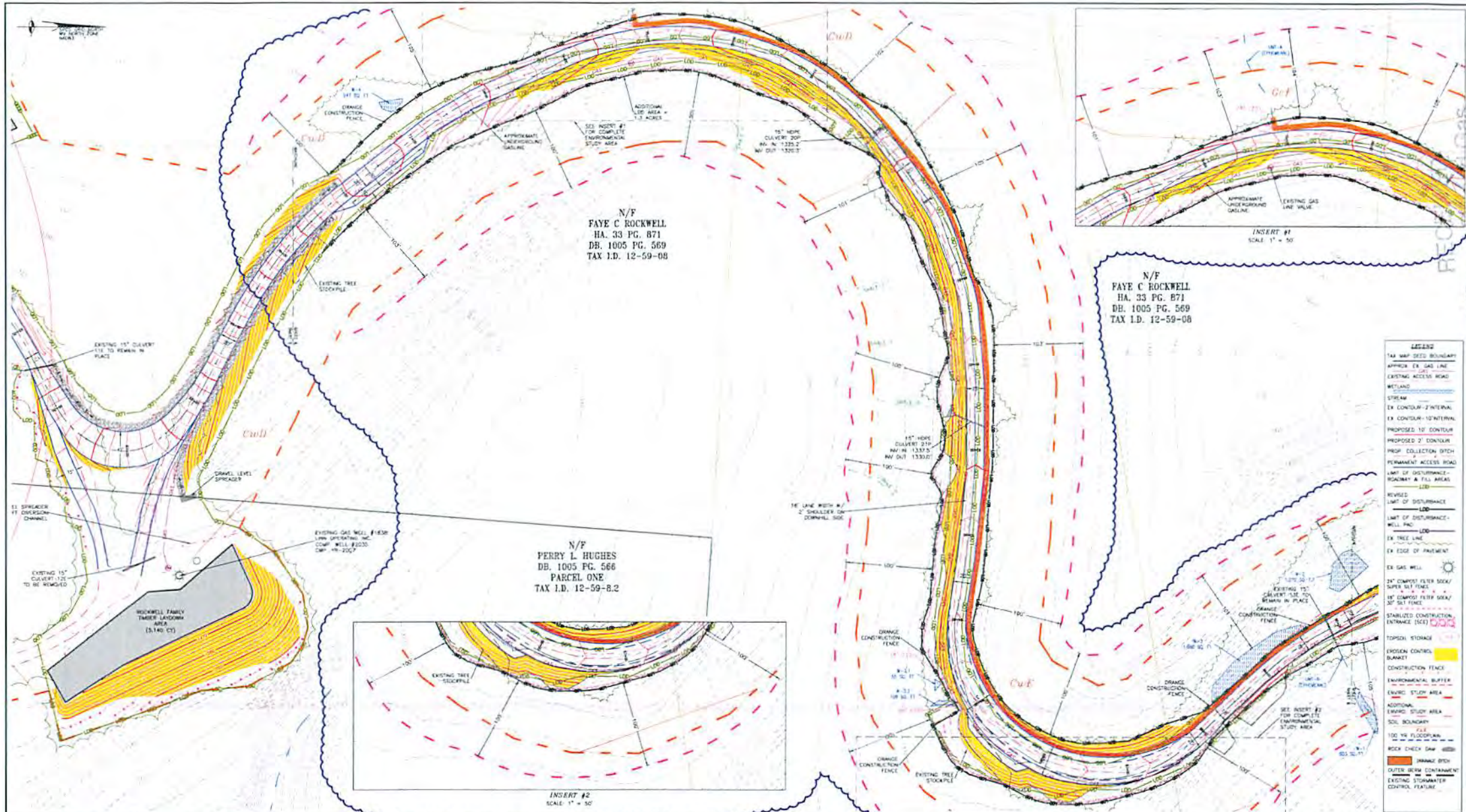
SEDIMENT CONTROL PLAN - COVER

ROCKWELL WELL PAD & ACCESS ROADS

Sheet No: TCE Date: 8/22/14 EAST DISTRICT, HARRISON COUNTY, WEST VIRGINIA

Scale: AS NOTED Sheet: No. No. SHEET 1 OF 27 XTO-0642-2524.25

WVDP OOG 03 2015
 WPW
 B-28-15
 Environmental Protection



LEGEND

- 1/4" MAP GRID BOUNDARY
- APPROX EX GAS LINE
- EXISTING ACCESS ROAD
- WETLAND
- STREAM
- EX CONTOUR - 2' INTERNAL
- EX CONTOUR - 10' INTERNAL
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROP COLLECTION DITCH
- PERMANENT ACCESS ROAD
- LIMIT OF DISTURBANCE - ROADWAY & FULL AREAS
- REVISED LIMIT OF DISTURBANCE
- LIMIT OF DISTURBANCE - WELL PAD
- EX TREE LINE
- EX EDGE OF PAVEMENT
- EX GAS WELL
- 2" COMPOST FILTER SOCK / SUPER MAT FENCE
- 1" COMPOST FILTER SOCK / 30" SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE (SCE)
- TOPSOIL STORAGE
- EROSION CONTROL BLANKET
- CONSTRUCTION FENCE
- ENVIRONMENTAL BUFFER
- EXISTING STUDY AREA
- ADDITIONAL FIELD STUDY AREA
- SOIL BOUNDARY
- 100 YR FLOODPLAIN
- ROCK CHECK DAM
- ORANGE DITCH
- OUTER BERM CONTAINMENT
- EXISTING STORMWATER CONTROL FEATURE

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	WVDP COMMENTS	1/23/14	AJC
2	WVDP COMMENTS 2	3/23/15	AJC
3	ROAD REALIGNMENT	8/11/15	ROW

APPROVED
WVDP OOG
 7/21/2015

NOTES

SEDIMENT CONTROL PLAN AND PERMIT NOTES

- CONSTRUCTION ACTIVITIES THAT AFFECT STREAMS AND PUBLIC ROADS REQUIRE PERMITS. NO CONSTRUCTION IS TO TAKE PLACE IN STREAMS OR ROADS WITHOUT THE NECESSARY PERMITS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THE NECESSARY PERMITS TO MINIMIZE EROSION AND WATER SEDIMENTATION TO STREAMS AND WETLANDS, AND TO OBTAIN ALL NECESSARY PERMITS.
- IF PERMITS CHANGES REQUIRE NEW PERMITS, CONSULT WITH THE PERMITTING AGENCIES. SCHEDULE PERMITS TO CONSTRUCTION IN THESE NEW AREAS. PERMIT CHANGES INCLUDE ANY LAND ACQUISITION OUTSIDE OF THE SERVICE LIMIT OF DISTURBANCE, ADDITIONAL ACCESS ROADS, MINOR CONTACT, AND STORMWATER HANDLING FOR NEW PERMITS.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO COORDINATE DESIGNING A ROUTE TO ELIMINATE ENVIRONMENTAL FEATURES SHOWN OUTSIDE OF STUDY AREA AND APPROVED FROM HIS OR HER AVAILABLE MAPPING & GIS TOPOGRAPHIC MAPS.
- ALL CULVERTS SHALL BE 8" x 4" UNLESS OTHERWISE SPECIFIED.
- ALL IMPROVED ACTIVITY TO BE DONE OUT OF THE FLOODPLAIN.
- ALL EXISTING GAS LINES TO BE EXPOSED SHALL BE PROTECTED (ENCASED, ETC.) AND SHALL BE COORDINATED WITH CULVERT AREA FOR EXISTING RELOCATIONS.
- SOIL REPAIR INDICATED AS CUT MAY ONLY CONSIST OF REPAIRING THE TOPSOIL.

STOP - CALL BEFORE YOU DIG!

Miss Utility of West Virginia
 1-800-245-4848
 TICKETS: 137043300 & 137043301

NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THIS PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE CORRECT LOCATIONS. THE DEPTH OF UTILITIES HEREON DOES NOT REFLECT THE CONTRACTOR'S AND SHALL BE PERFORMING EXCAVATIONS FROM CONSULTING WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS. SAID REQUIREMENTS CAN BE SATISFIED IN PART BY CONTACTING THE NUMBER 1-800-245-4848



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

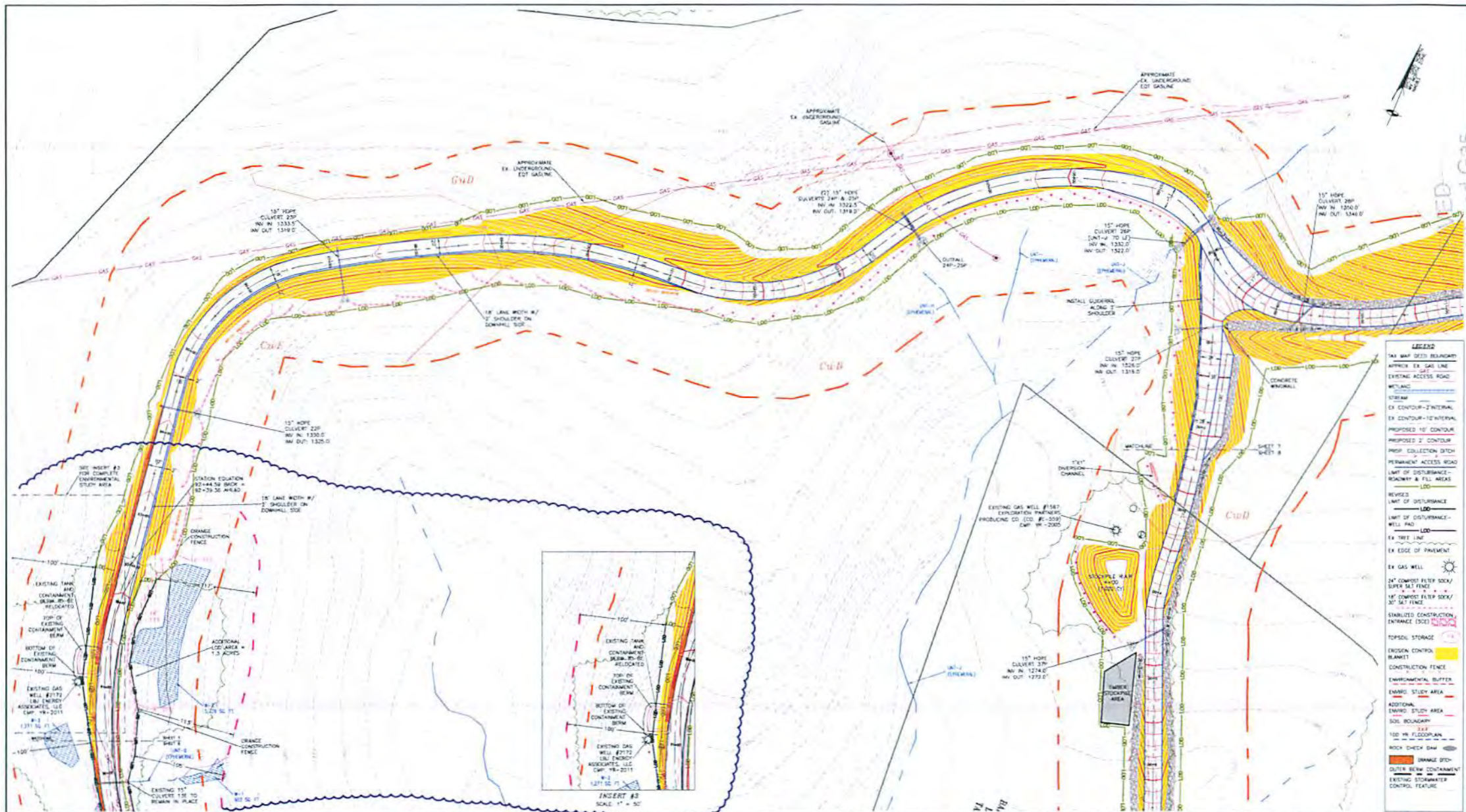


TRI-COUNTY ENGINEERING, LLC
 319 Poynterwise Road
 Huron, PA 15858
 www.tri-countyeng.com Fax: (724) 835-0876

SEDIMENT CONTROL PLAN

ACCESS ROAD TO ROCKWELL WELL PAD

Client:	TCC	Location:	WASHINGTON DISTRICT
Date:	8/22/14	County:	MARION COUNTY, WEST VIRGINIA
Scale:	1" = 50'	Sheet:	File No.
Drawn:	12/24/15	Sheet:	8 of 8



Office of Oil and Gas
 SEP 03 2015
 8-28-15
 Environmental Protection

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	WDEP COMMENTS 1	1/5/14	AJC
2	WDEP COMMENTS 2	2/23/15	AJC
3	ROAD REALIGNMENT	8/11/15	RHM

APPROVED
WVDEP OOG
 7/21/2015

NOTES

SEDIMENT CONTROL PLAN AND PERMITS NOTES:

- CONSTRUCTION ACTIVITIES THAT AFFECT STREAMS AND PUBLIC WATERS REQUIRE PERMITS. NO CONSTRUCTION IS TO TAKE PLACE IN STREAMS OR WATERS WITHOUT THE NECESSARY PERMITS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE THE NECESSARY MEANS TO MAINTAIN EXISTING AND OTHER SEDIMENTATION TO STREAMS AND WATERS AND TO OFF-SITE UNIMPAIRED AREAS.
- IF PROJECT CHANGES REQUIRE NEW PERMITS, CONTRACTOR SHALL NOTIFY THE PERMITTING AGENCY AND OBTAIN PERMITS TO CONSTRUCTION IN THESE NEW AREAS. PROJECT CHANGES INCLUDE, BUT ARE NOT LIMITED TO, CHANGES TO THE DISTRICTS LIMIT OF DISTURBANCE, ACCESS ROADS, WATERSHEDS, AND STREAMS. PERMITS SHALL BE OBTAINED PRIOR TO CONSTRUCTION.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO DETERMINE EXISTING AND PROPOSED RELOCATIONS. UNDERGROUND UTILITIES SHOWN OUTSIDE OF STUDY AREA ARE APPROXIMATE FROM AN 8\"/>

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

 1-800-245-4848
 TICKETS: 1317043350 & 1317043351

NOTICE REGARDING UNDERGROUND UTILITIES: NO WARRANTY IS MADE THAT THIS PLAN SHOWS ALL EXISTING UNDERGROUND UTILITIES OR THAT THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE THE CORRECT LOCATIONS. THE DEPICTION OF UTILITIES HEREON DOES NOT RELIEVE THE CONTRACTOR FROM THE NECESSITY OF VERIFYING THE LOCATION OF UTILITIES WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS. SAID REQUIREMENTS CAN BE SATISFIED, IN PART, BY CONTACTING THE MURRY AT 1-800-245-4848.



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

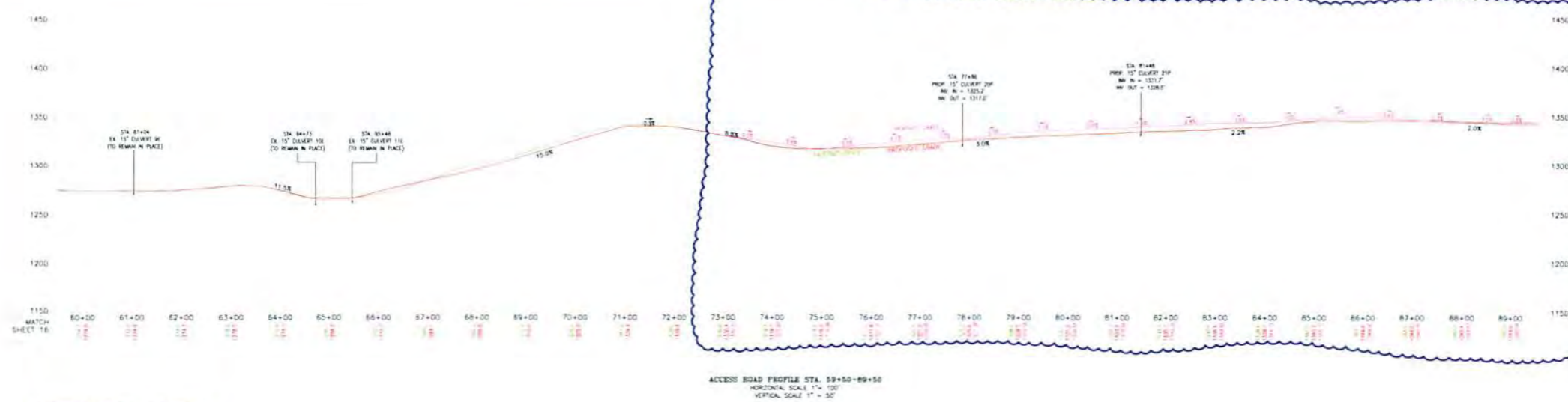


TRI-COUNTY ENGINEERING, LLC
 319 Poplarville Road
 Haverhill, PA 15438
 Phone: (724) 833-0210 Fax: (724) 833-0678
 www.tri-countyeng.com

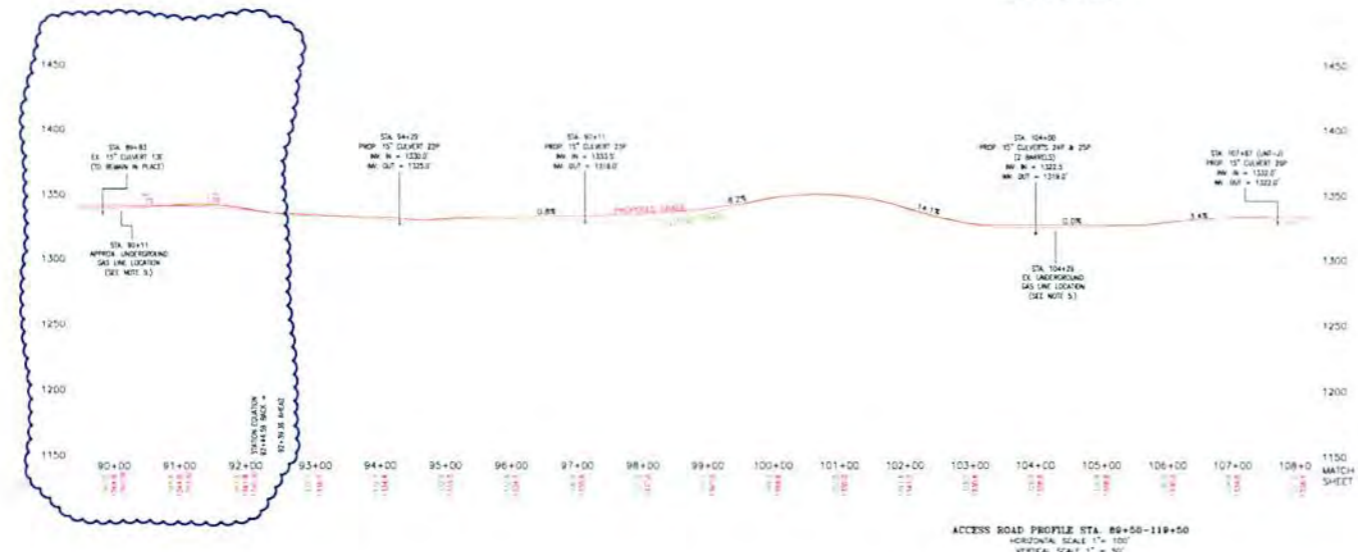
SEDIMENT CONTROL PLAN
ACCESS ROAD TO ROCKWELL WELL PAD

DATE	8/27/14	PROJECT	WASHINGTON DISTRICT
SCALE	1" = 50'	COUNTY	BARREN COUNTY, WEST VIRGINIA
DATE	8/11/15	SHEET	7 OF 7
DATE	8/11/15	PROJECT NO.	810-0042-22,24,25

WPH
9-28-15



ACCESS ROAD PROFILE STA. 59+50-89+50
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 30'



ACCESS ROAD PROFILE STA. 89+50-119+50
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 30'

REVISIONS

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

APPROVED
WVDEP OOG
[Signature]
7/21/2015

SEDIMENT CONTROL PLAN AND PERMIT NOTES

- CONSTRUCTION ACTIVITIES THAT AFFECT STREAMS AND PUBLIC WATERS REQUIRE PERMITS. NO CONSTRUCTION IS TO TAKE PLACE IN STREAMS OR WATERS WITHOUT THE NECESSARY PERMITS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE THE NECESSARY PERMITS TO AVOID EROSION AND OTHER CONSEQUENCES TO STREAMS AND WATERS, AND TO OBTAIN ALL NECESSARY PERMITS.
- IF PROJECT CHANGES REQUIRE NEW PERMITS, CONSULT WITH THE PERMITS/ENVIRONMENTAL ENGINEER PRIOR TO CONSTRUCTION. IN THESE NEW AREAS, PROJECT CHANGES INCLUDE ANY LAND USE/PERMITS, EROSION OF THE STREAMS AND/OR DISTURBANCES, EROSION, ACCESS ROADS, AND PERMITS/STAKE PERMITS FOR THIS PROJECT.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO COORDINATE CROSSINGS & POSSIBLY RELOCATIONS.
- FOR EXISTING GAS LINES / UTILITY LINES AT ROAD CROSSINGS, THE EXISTING LINE HAS BEEN MARKED AS IT BECOMES EXPOSED. HOWEVER, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

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Miss Utility of West Virginia
1-800-245-4848
TICKETS: 131704305 & 131704301

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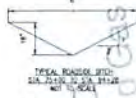
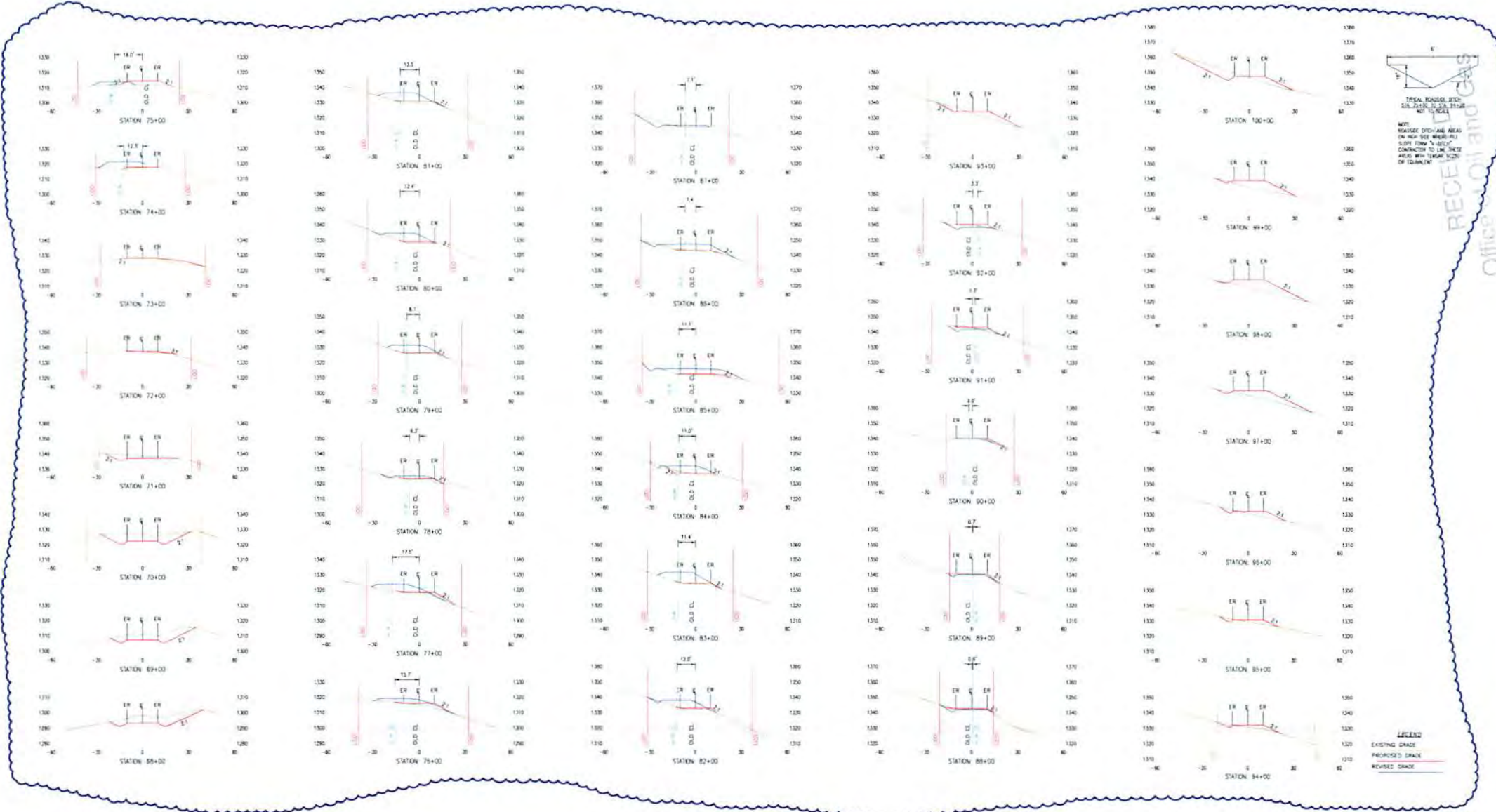


XTO ENERGY
810 HOUSTON STREET
FORT WORTH, TX 76102

TRI-COUNTY ENGINEERING, LLC
318 Parkersburg Road
Homer, Pa 15326
Phone: (724) 830-0210 Fax: (724) 830-0678
www.tri-countyeng.com

SEDIMENT CONTROL PLAN
ACCESS ROAD PROFILES

Drawn By	Date	Project Name
AUG	7/30/14	WARREN & HARRISON COUNTIES, WEST VIRGINIA
Checked By	Date	File No.
WPH	8/11/15	XTO-0042-2124-25



NOTE: RAISED DITCH AREAS IN HIGH WIND AREAS SHALL BE CONSTRUCTED TO MEET AREA WITH TYPICAL SLOPE OF 1:1.

LEGEND
 --- EXISTING GRADE
 --- PROPOSED GRADE
 --- REVISED GRADE

Office of Oil and Gas

SEP 08 2015

WPH
8-28-15
Environmental Protection

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ROAD REALIGNMENT	6/17/15	EMW

APPROVED
WVDEP OOG
[Signature]
 7/21/2015

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

 1-800-245-4848
 TICKETS: 131704200 & 131704205

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



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

TRI-COUNTY ENGINEERING, LLC
 319 Parramore Road
 Marion, WV 26158
 Phone: (204) 833-0210 Fax: (204) 833-0878
 www.tri-countyeng.com

SEDIMENT CONTROL PLAN
ACCESS ROAD
CROSS SECTIONS

Drawn by:	Date:	Location:
TCE	4/30/15	MANNING DISTRICT
Scale:	Sheet:	File No.:
1" = 30'	SHT 17	KT0-0642-23,24,25
Lot #:	3205445	

Since 1979



Mining Layers

Permit Search Identify Layers

Layer	Permit Id	Name

Attribute	Value

No features selected.

Add Points

Lat deg	Lat min	Lat sec	Lon deg	Lon min	Lon sec	Label
39.455648	0	0	-80.383051	0	0	new point

New Zoom Delete

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

04902408

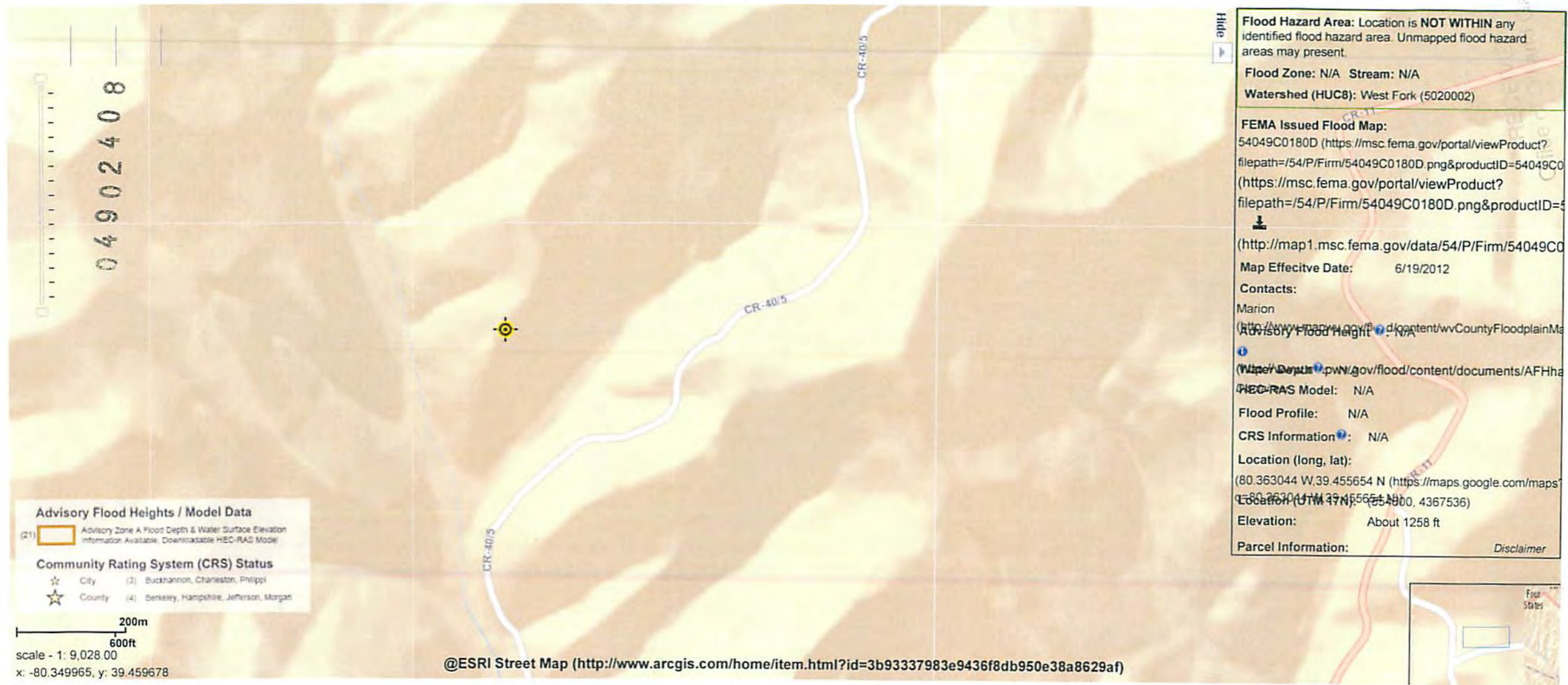
Caldale

Engamon

new point



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



Advisory Flood Heights / Model Data

(21) [Orange Box] Advisory Zone A Flood Depth & Water Surface Elevation Information Available, Downloadable HEC-RAS Model

Community Rating System (CRS) Status

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

200m
600ft
scale - 1: 9,028.00
x: -80.349965, y: 39.459678

@ESRI Street Map (<http://www.arcgis.com/home/item.html?id=3b93337983e9436f8db950e38a8629af>)

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

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

Watershed (HUC8): West Fork (5020002)

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

Map Effective Date: 6/19/2012

Contacts:
Marion
(<http://www.marion.gov/flood/content/wvCountyFloodplainMa>)

Advisory Flood Height: N/A

Water Depth: N/A

HEC-RAS Model: N/A

Flood Profile: N/A

CRS Information: N/A

Location (long, lat):
(80.363044 W, 39.455654 N) (<https://maps.google.com/maps?location=80.363044,-39.455654>)
Location (UTM 17N): (554800, 4367536)

Elevation: About 1258 ft

Parcel Information: [Link] Disclaimer

SEP 03 2013
WV Department of Environment & Natural Resources