



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: 47-4902406, issued to XTO ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

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

James Martin
Chief

Operator's Well No: HUGHES 5H
Farm Name: ROCKWELL, FAYE
API Well Number: 47-4902406
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)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hughes 5H
Well Pad Name: Hughes Pad

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

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

2) Operator's Well Number: Hughes 5H Well Pad Name: Hughes Pad

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

4) Elevation, current ground: 1,320' Elevation, proposed post-construction: 1,286'

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 7,490', Anticipated Thickness: 150', Associated pressure: 4,650 psi

8) Proposed Total Vertical Depth: 7,490'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 16,550'

11) Proposed Horizontal Leg Length: 8,100'

12) Approximate Fresh Water Strata Depths: 88', 283', 373', 545', 0 490'

13) Method to Determine Fresh Water Depths: Offsetting Reports

14) Approximate Saltwater Depths: 1,300'

15) Approximate Coal Seam Depths: 192', 354', 545'

16) Approximate Depth to Possible Void (coal mine, karst, other): 545'

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: Robinson Run 95
Depth: 545'
Seam: Pittsburgh
Owner: Consolidation Coal Company

WRH
9-1-15

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WW-6B
(04/15)

API NO. 47-_____-_____
OPERATOR WELL NO. Hughes 5H
Well Pad Name: Hughes 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	600	600	542
Coal							
Intermediate	9.625	New	J55	36	3,125	3,125	1,272
Production	5.5	New	J55	20	16,550	16,550	Lead 2,934/Tail 6,700'
Tubing							
Liners							

*WRH
9-29-15*

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	490	Standard	1.19
Coal							
Intermediate	9.625	12.25	0.352	3520	2200	Standard	1.19
Production	5.5	8.5	0.361	12640	5720	50-50 POZ / Class H Tail	1.13 / 1.18
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B
(10/14)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hughes 5H
Well Pad Name: Hughes Pad

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

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

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

1. Acid Stage - Typically 1500 gallons of 7.5% hydrochloric acid to clear the perforation path in the wellbore. 1500 gals 15% HCl acid. 2. Sand / Proppant Stages - Several stages of pumping water combined with sand at a targeted 80 bpm rate. The maximum pressure and rate used is 10,000 psig and 120 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): 35.835 +/-

22) Area to be disturbed for well pad only, less access road (acres): 6 +/-

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

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Hughes A 5H – Mine Void Encounter Plan

Per communications with the WV Geology and Economic Survey there is a possible mine void in the Pittsburgh Coal seam under the Hughes Pad in Marion County, WV. In preparation for drilling through a mine void, we will nipple up an annular preventer to be able to handle any flow should the void actually be encountered. We expect it to come in around 545' 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 ~3,125'.

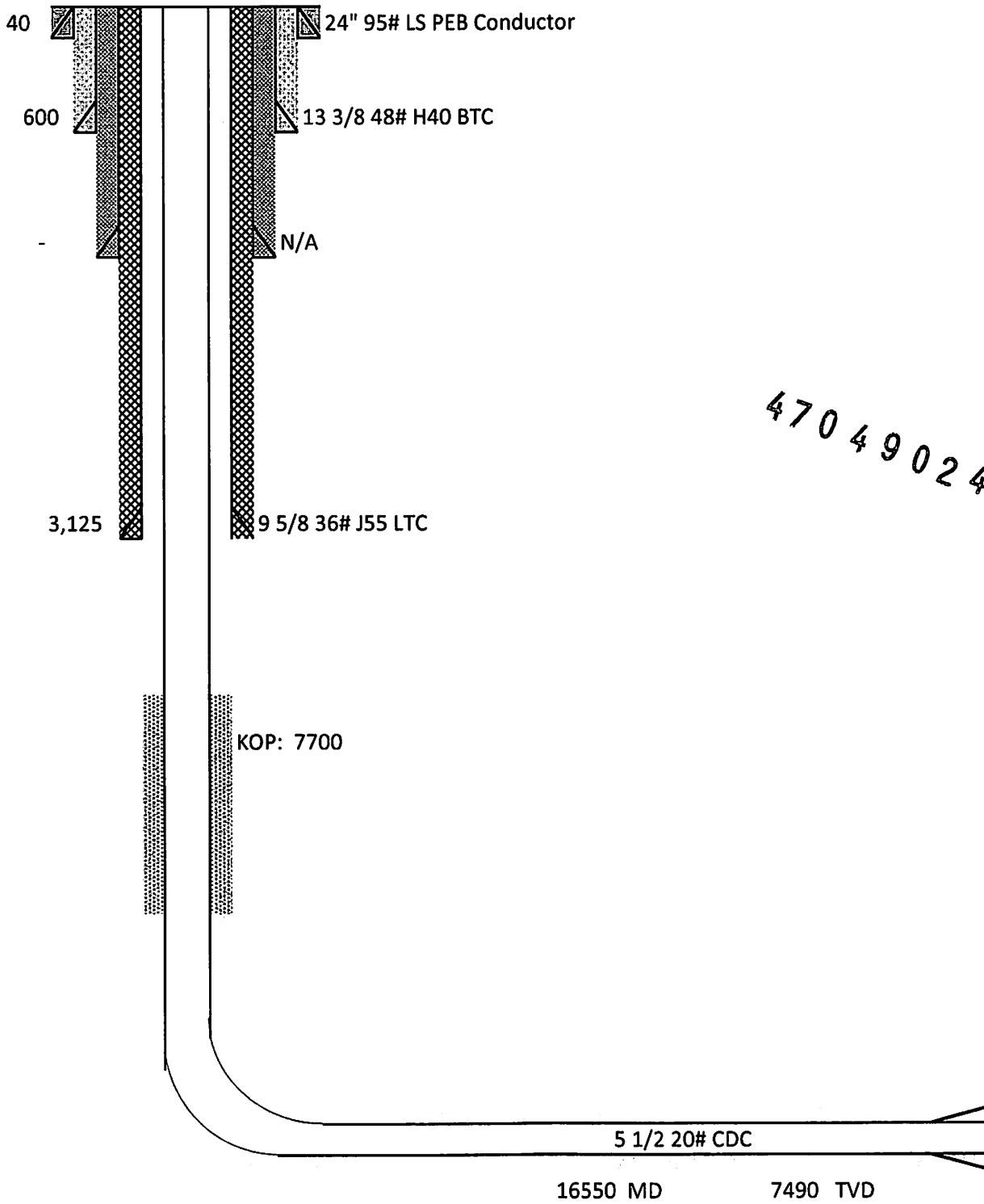
Morgan O'Brien
Drilling Engineer
XTO Appalachia
Cell: 724-272-8097
Morgan_OBrien@xtoenergy.com

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HUGHES A 5H
Marion County, West Virginia



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WW-9
(2/15)

4704902406

API Number 47 - _____ - _____
Operator's Well No. Hughes 5H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name XTO Energy Inc. OP Code 494487940

Watershed (HUC 10) Bingamon Creek Quadrangle Shinnston 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? See additional page

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

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

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

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

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

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

Company Official Signature [Signature]

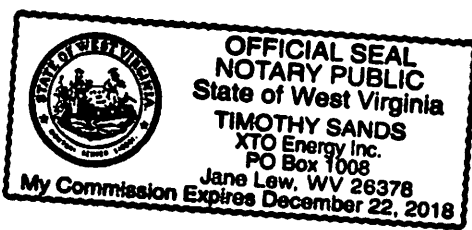
Company Official (Typed Name) Gary Beall

Company Official Title Production Superintendent

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

[Signature] Notary Public

My commission expires 12/22/18



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XTO Energy Inc.

Proposed Revegetation Treatment: Acres Disturbed 35.835 +/- Prevegetation pH _____

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

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Per plans

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Per plans			

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Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bill Hendrich

Comments: _____

Title: ENVIRONMENTAL INSPECTOR Date: 9-29-15

Field Reviewed? () Yes () No

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XTO Energy Inc.
Well Site Safety Plan

Hughes 5H Well
Hughes Pad

39.453972
-80.370627

810 Hawks Nest Rd.
Mannington, WV 26582

*WRH
8-28-15*

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XTO ENERGY INC.

XTO0657-09

HUGHES WATER OFFSET

(2000' OFFSET)

8/17/2015

POINT	SOURCE	LAST NAME	MAILING ADDRESS	CITY	STATE	ZIP	BEARING	DISTANCE	PARCEL ID WITHING 3000'
C	HOUSE POSSIBLE	FAYE C ROCKWELL	316 EAST RUN RD	FARMINGTON	WV	26571	S 56°50'53" W	1544	12-58-343

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HUGHES

5H

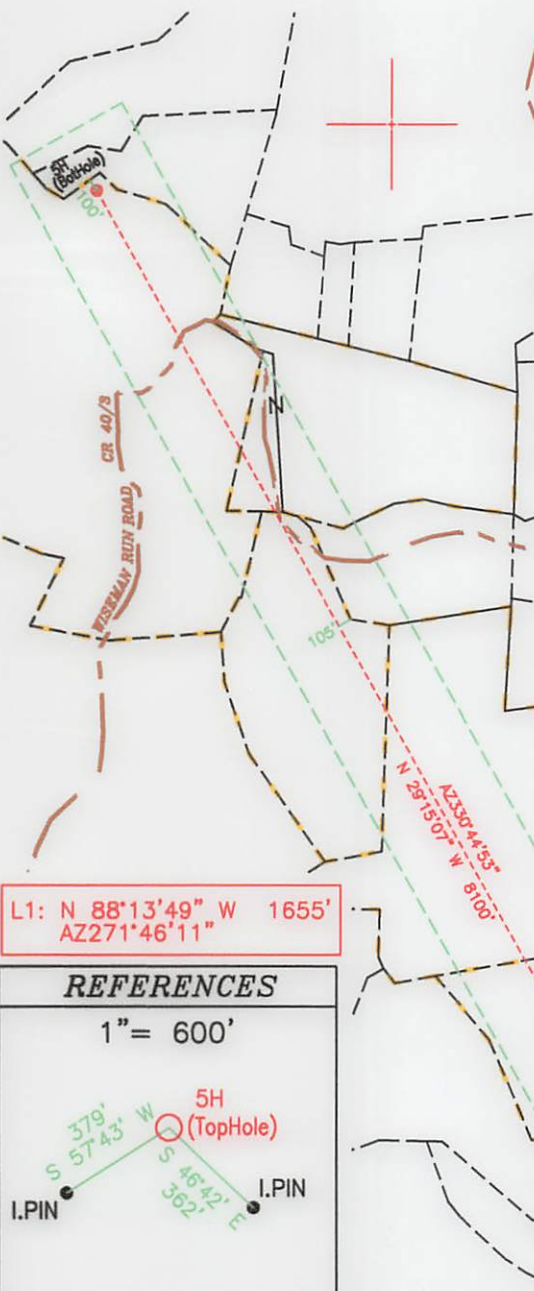
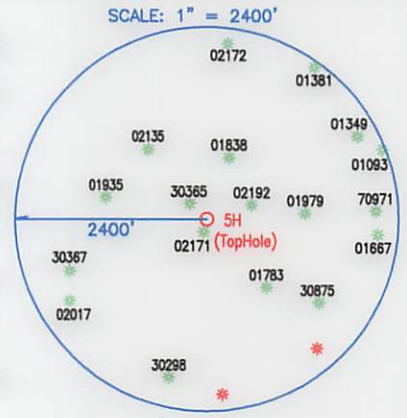
State Plane Coord.
West Virginia North
NAD27

Top Hole Loc
(N) 348558.038
(E) 1754094.025

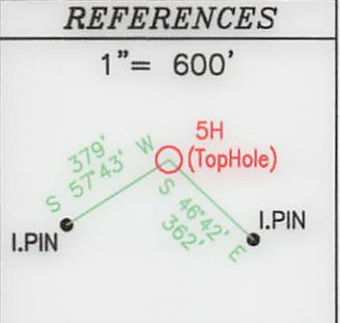
NOTES ON SURVEY:

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.

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



L1: N 88°13'49" W 1655'
AZ271°46'11"



TRI-COUNTY ENGINEERING, LLC

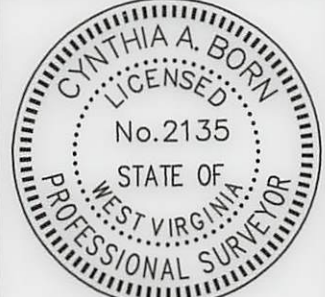
319 PAINTERSVILLE RD. HUNKER, PA 15639 TCE@TRICOUNTYENG.COM (724) 635-0210

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FILE # XTO-OG57
 DRAWING # OG57-11-5H
 SCALE: 1" = 1500'
 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



DATE: 8/27/2015 PLACE SEAL HERE
 OPERATOR'S WELL #: HUGHES 5H
 API WELL #: 47 49 02404 H6A
 STATE COUNTY PERMIT

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

WATERSHED: BINGAMON CREEK WATERSHED ELEVATION: 1286' (PROPOSED GRADE)
 COUNTY/DISTRICT: MARION / MANNINGTON QUADRANGLE (THL) SHINNSTON 7.5'
 SURFACE OWNER FAYE C. ROCKWELL ACREAGE 107.50
 OIL & GAS ROYALTY OWNER: BEVERLY & DAN M. KELLY et al. ACREAGE 107.23/2015

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: 7,490'/16,550'

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

**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	Dan & Beverly Kelly et al	XTO Energy Inc.	1/8	1110/108
2	Faye C. Rockwell	LBJ Energy Associates, LLC	1/8	1023/284
3	Thomas F. & Nancy K. Moore et al	XTO Energy Inc.	1/8	1096/167
4	J.T. & Cordelia J. Crim	The Fairmont & Grafton Gas Co.	1/8	170/466
5	Reita J. Hall et al	XTO Energy Inc.	1/8	1055/337

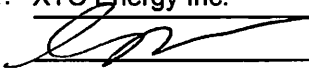
see attached

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

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

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

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

Well Operator: XTO Energy Inc.
 By: 
 Its: Production Superintendent

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TMP	Deed Book	Page	Lessor	Lessee
1	1110	108	Beverly Kelly and Dan M. Kelly, married	XTO Energy Inc.
	1110	114	Maurice Heldreth and Judith Heldreth, married	XTO Energy Inc.
	1112	393	Shirley Paul and Jim Paul, married	XTO Energy Inc.
	1112	399	Marilyn Weese and Marvin Weese, married	XTO Energy Inc.
	1116	366	Johnathan Charles Miller, single and dealing in his sole and separate property	XTO Energy Inc.
	1118	125	Randy Lee Miller and Lynne E. Miller, married	XTO Energy Inc.
	1116	342	Debbie Kay Doney and Jerry E. Doney, married	XTO Energy Inc.
	1116	369	David Eugene Miller, single and dealing in his sole and separate property	XTO Energy Inc.
	1116	375	Gary Donald Miller, single and dealing in his sole and separate property	XTO Energy Inc.
	1116	372	Duane Dale Miller, single and dealing in his sole and separate property	XTO Energy Inc.
		1023	284	Faye C. Rockwell, widow
2	1023	284	Faye C. Rockwell, widow	LBJ Energy Associates, LLC LBJ Energy to Linn Energy at 30-953, to XTO Energy at 33-200.
3	1096	167	Thomas Fredrick Moore and Nancy K. Moore, husband and wife	XTO Energy Inc.
	1096	165	Pauline J. Beatty, widow	XTO Energy Inc.
	1098	372	Minda Sue Shingleton and William J. Shingleton	XTO Energy Inc.
	1096	149	Linda Hickman	XTO Energy Inc.
	1097	255	Mary J. Osbourn, a/k/a Mary Jane Osbourn, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1096	163	Elizabeth A Hildreth and Edward E. Hildreth Jr., wife and husband	XTO Energy Inc.

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4	170	466	J. T. Crim and Cordelia J. Crim, his wife	The Fairmont and Grafton Gas Co. to Pittsburgh and West Virginia Gas Company (Merger) at DB 1 PG 258; Pittsburgh and West Virginia Gas Company to Equitable Gas Company at DB 510 PG 487 and DB 511 PG 529; Equitable Gas Co. to Equitrans, Inc. at AB 12 PG 279; Equitrans Inc. to Equitrans LP (Merger); Equitrans LP to Equitable Production-Eastern States, Inc. at AB 23 PG 899; Equitable Production - Eastern States, Inc. to Equitable Production Company (Merger); Equitable Production Company assigns the Crim #1 well (E-610) API 47-049-1449 and a 40 acre diameter around said well to the depth of 4132'to Exploration Partners, LLC; Equitable Producrion Company to EQT Production Company Merger) at 61-558. Memorandum of Agreement between EQT Production Company and XTO Energy Inc. at BK/PG 1177/111.
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5	1055	337	Reita Jane Hall, aka, Rita Jane Hall Wells, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1055	331	Mary Roselyn Lee, aka, Mary Roselyn Talbott Lee, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1055	623	Thomas Bowen Bennett, acting as Trustee for the Dora Margaret Sheppard Hennen Ferguson Trust	XTO Energy Inc.
	1055	626	C. Howard Hardesty, widower	XTO Energy Inc.
	1055	637	Virginia Smith Cox, a married woman dealing in her sole and separate property	XTO Energy Inc.
	1055	340	Ann Landis and Tim Landis, her husband	XTO Energy Inc.
	1055	334	George Lee Judy and Christianne M. Judy, his wife	XTO Energy Inc.

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	1096	175	Martha Moore Salerno	XTO Energy Inc.
	1110	143	Dale Edward Beatty and Betty Beatty	XTO Energy Inc.
	1105	543	Robert Lee Betzing, married, dealing in his sole and separate property	XTO Energy Inc.
	1106	290	Helen McDonnell, dealing in her sole and separate property	XTO Energy Inc.
	1106	293	John Richard Betzing, dealing in his sole and separate property	XTO Energy Inc.
	1108	209	William Martin Betzing and Paula Gay Betzing, husband and wife	XTO Energy Inc.
	1108	499	Linda Arthur married, dealing in her sole and separate property	XTO Energy Inc.
	1113	451	Melody A. Clark, single	XTO Energy Inc.
	1113	457	Jayantilal Patel and Patricia Patel AKA Patricia An Haught, husband and wife	XTO Energy Inc.
	1113	454	Robbin S. Kimble, single	XTO Energy Inc.
	1120	29	Michael Augustine Defazio and Paulette Defazio, married	XTO Energy Inc.
	1122	46	Beatrice Ann Defazio, single, dealing in her sole and separate property	XTO Energy Inc.
	1121	492	John Frances Davis and Mary Klyce Davis, husband and wife	XTO Energy Inc.
	1122	54	Mary Jo Miller a/k/a Mary Jo Richard, widow	XTO Energy Inc.
	1122	757	James Richard Kirby III, single	XTO Energy Inc.
	1166	306	Gary Marvin Cook, a married man dealing in his sole and separate property	XTO Energy Inc.
	1023	284	Faye C. Rockwell, widow	LBJ Energy Associates, LLC LBJ Energy to Linn Energy at 30-953, to XTO Energy at 33-200.
	1113	448	Carl Richard Siberski, a widower	XTO Energy Inc.

6	1049	172	Joanne Edgell and Frederick R. Edgell, wife and husband	XTO Energy Inc.
7	979	655	Paul E. Hawkins	<p>Waco Oil & Gas Co., Inc. Ira L. Morris and Betty Sue Morris assign to Linn Energy, L.L.C. at Assignment Book 25-638; Linn Energy Holdings, L.L.C. and Linn Operating, Inc. assigns to XTO Energy Inc. at Assignment Book 33-200 and 40-608.. Linn Energy, L.L.C. changed its name to Linn Energy Holdings, LLC. Certificate of Amendment to Certification of Formation of Linn Energy, L.L.C., dated May 31, 2005, filed of record at INC 2-300, in the Recorder's Office of Marion County. Assignment of Oil and Gas Leases Recorded at Vol. 33, Pg. 200 Effective Date: April 1. 2008 Linn Energy Holdings, LLC, et al assigns to XTO Energy Inc., in the Recorder's Office of Marion County.</p>

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MEMORANDUM OF AGREEMENT

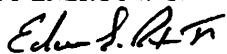
STATE OF WEST VIRGINIA §
 § **KNOW ALL MEN BY THESE PRESENTS:**
COUNTY OF MARION §

This Memorandum of Agreement is entered into this 12TH day of August, 2015, between XTO Energy Inc., whose address is 810 Houston St., Fort Worth, TX 76102 ("XTO"), and EQT Production Company, a Pennsylvania corporation, with an office at 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222 ("EQT").

1. **PARTIES AND AGREEMENT REFERENCE:** XTO and EQT entered into a letter agreement ("Letter Agreement") dated August 12, 2015 (the "Commencement Date") outlining their intent to pursue definitive agreements allowing XTO to develop those certain oil and gas leasehold rights owned by EQT in Marion County, WV by lease dated October 10, 1910 and recorded in Deed Book 170, Page 466, in the Office of the Clerk of the County Commission of the aforesaid County and State.
2. **TERM:** The rights granted in the Letter Agreement will terminate upon the earlier of (i) one year from the Commencement Date, or (ii) the parties entering into the definitive agreement(s) described in the Letter Agreement.
3. **MEMORANDUM FOR RECORDING PURPOSES ONLY:** This Memorandum is for recording purposes only and does not supplement or supercede the parties' respective rights set forth in the Letter Agreement.

IN WITNESS WHEREOF, the parties have signed their names hereto as of the date first above written.

XTO ENERGY INC.

 _____ *LL*

By Edwin S. Ryan, Jr.
Its: Senior Vice President Land of XTO Energy Inc

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OCT 21 2015

**WV Department of
Environmental Protection**

EQT PRODUCTION COMPANY

 _____ *(fin)*

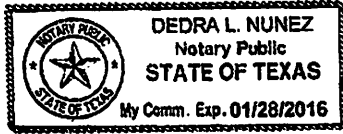
By: Steven Preclipp
Its: Senior Vice President - Business Development & Land

ACKNOWLEDGEMENT

STATE OF TEXAS
COUNTY OF TARRANT

Before me, DEDRA L. NUNEZ, a Notary Public, on this day appeared Edwin S. Ryan, Jr., known to me to be the Senior Vice President - Land of XTO Energy Inc., subscribed to the foregoing instrument, and acknowledged to me that he/she executed the instrument for the purposes and consideration therein expressed as his/her act and deed. Given under my hand and seal of office this 19th day of August, 2015. My Commission expires: 1/28/16

(Seal)

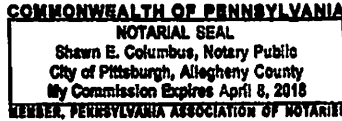


Handwritten signature of DEDRA L. NUNEZ, Notary Public

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF ALLEGHENY

Before me, SHAWN E. COLUMBUS, a Notary Public, on this day appeared Steven Prelipp, known to me to be the Senior Vice President - Business Development & Land of EOT Production Company subscribed to the foregoing instrument, and acknowledged to me that he/she executed the instrument for the purposes and consideration therein expressed as his/her act and deed. Given under my hand and seal of office this 12th day of August, 2015. My Commission expires: APRIL 8, 2018

(Seal)



Handwritten signature of Shawn E. Columbus, Notary Public

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Prepared by and when recorded, please return to:

Bryson Kuba, LP
714 Venture Drive # 187
Morgantown, West Virginia 26508

201500010094
Filed for Record in
MARION COUNTY, WV
JANICE COSCO, COUNTY CLERK
08-21-2015 At 03:49 pm.
AGREE DEED 11.00
STATE TAX .00
COUNTY TAX .00
Book 1177 Page 111 - 112

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Business and Licensing

Online Data Services Help

Business Organization Detail

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4704902406

EQUITRANS, INC.

Organization Information								
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
C Corporation	3/30/1988		3/30/1988	Foreign	Profit		4/25/1996	Merger

Organization Information			
Business Purpose		Capital Stock	0.0000
Charter County	Foreign Country	Control Number	0
Charter State	DE	Excess Acres	208471
At Will Term		Member Managed	
At Will Term Years	0	Par Value	0.0000
Authorized Shares	0		

Addresses	
Type	Address
Notice of Process Address	R.E. DALEY 420 BOULEVARD OF THE ALLIES PITTSBURGH, PA, 15219
Principal Office Address	3500 PARK LANE PITTSBURGH, PA, 15275
Type	Address

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Officers

Type	Name/Address
Director	FREDERICK H. ABREW 420 BLVD OF THE ALLIES PITTSBURGH, PA, 15219
Director	DONALD I. MORITZ SAME AS ABOVE
President	J. T. EGLER 420 BOULEVARD OF THE ALLIES PITTSBURGH, PA, 15219
Secretary	AUDREY C. HOELLER 420 BLVD. OF THE ALLIES PITTSBURGH, PA, 15219
Treasurer	ROBERT E DALEY SAME AS SEC.
Vice-President	J.R. MURPHY SAME AS PRES.
Type	Name/Address

Date	Amendment
4/25/1996	MERGER; MERGING EQUITRANS, INC., A QUAL DE CORP, WITH AND INTO EQT CAPITAL CORPORATION, A QUAL DE CORP, THE SURVIVOR.
3/30/1988	CERTIFICATE OF EXCESS ACREAGE; 270162 ACRES EXCESS OF 10,000. TOTAL AUTHORIZED 280,162 ACRES.
Date	Amendment

Annual Reports	
Date	Filed For
	1996
	1995
	1994
	1993
	1992
	1991
	1990
	1989
Date	Filed For

b.704902406

For more information, please contact the Secretary of State's Office at 304-558-8000.

Tuesday, August 18, 2015 — 11:21 AM

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EQT CAPITAL CORPORATION

Organization Information								
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
C Corporation	11/22/1995		11/22/1995	Foreign	Profit			

Organization Information			
Business Purpose		Capital Stock	0.0000
Charter County	Foreign Country	Control Number	0
Charter State	DE	Excess Acres	0
At Will Term		Member Managed	
At Will Term Years	0	Par Value	0.0000
Authorized Shares	0		
4704902406			

Addresses	
Type	Address
Notice of Process Address	CT CORPORATION SYSTEM 5400 D BIG TYLER ROAD CHARLESTON, WV, 25313 USA
Principal Office Address	911 WASHINGTON AVENUE WILMINGTON, DE, 19801
Type	Address

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Office of Oil & Gas
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Officers

Type	Name/Address
President	A. MARK ABRAMOVIC 420 BLVD OF THE ALLIES PITTSBURGH, PA, 15219
Secretary	AUDREY C. MOELLER SAME AS ABOVE
Treasurer	KENNETH J. KUBACKI SAME AS ABOVE
Type	Name/Address

Date	Amendment
2/5/2015	MERGER: MERGIN WITH AND INTO EQT CORPORATION, A QUALIFIED PA CORPORATION, THE SURVIVOR
11/22/1995	MERGER, MERGING KENTUCKY WEST VIRGINIA GAS COMPANY WITH AND INTO EQT CAPITAL CORPORATION, THE SURVIVOR
Date	Amendment

For more information, please contact the Secretary of State's Office at 304-558-8000.

Tuesday, August 18, 2015 — 11:18 AM

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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 40/3 and Route 40, in the location of our planned well bore's for the Hughes 5H.

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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An **ExxonMobil** Subsidiary

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

Date of Notice Certification: 8/31/15

API No. 47- _____
Operator's Well No. Hughes 5H
Well Pad Name: Hughes 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>554145</u>
County: <u>Marion</u>		Northing: <u>4367327</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>Faye Rockwell</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 style="text-align: center;">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 style="text-align: center; font-size: 24px; font-weight: bold;">4704902406</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	--

Required Attachments:

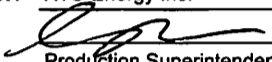
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

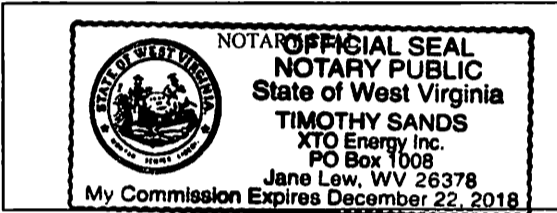
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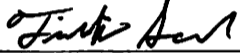
WW-6AC
(1/12)

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></u>	<u>Jane Lew, WV 26378</u>
Its: <u>Production Superintendent</u>	Facsimile: <u>304-884-6809</u>
Telephone: <u>304-884-6000</u>	Email: _____



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

4704902406

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SEP 02 2015

WW-6A
(9-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hughes 5H
Well Pad Name: Hughes 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: 9/4/15

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: Faye Rockwell
Address: 316 East Run Rd.
Farmington, WV 26571
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: David Webb
Address: 931 Joetown Rd.
Mannington, WV 26582
Name: Fara May Webb
Address: 1084 Joetown Rd.
Mannington, WV 26582

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: Consolidation Coal Company
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

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

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Faye Rockwell
Address: 316 East Run Rd.
Farmington, WV 26571

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: 4704902406

*Please attach additional forms if necessary

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Office of Oil & Gas
SEP 02 2015

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hughes 5H
Well Pad Name: Hughes 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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SEP 02 2015

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hughes 5H
Well Pad Name: Hughes 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

4704902406

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.**

Received
10/23/2015
Office of Oil & Gas
SEP 02 2015

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Hughes 5H
Well Pad Name: Hughes 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.

4704902406

10/23/2015
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Office of Oil & Gas
SEP 02 2015

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. Hughes 5H
Well Pad Name: Hughes Pad

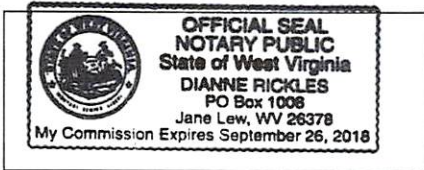
Notice is hereby given by:

Well Operator: XTO Energy, Inc. Address: PO Box 1008
Telephone: 304-884-6000 Jane Lew, WV 26378
Email: _____ Facsimile: 304-884-6809

Signed: Tim Sands By: Tim Sands 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.

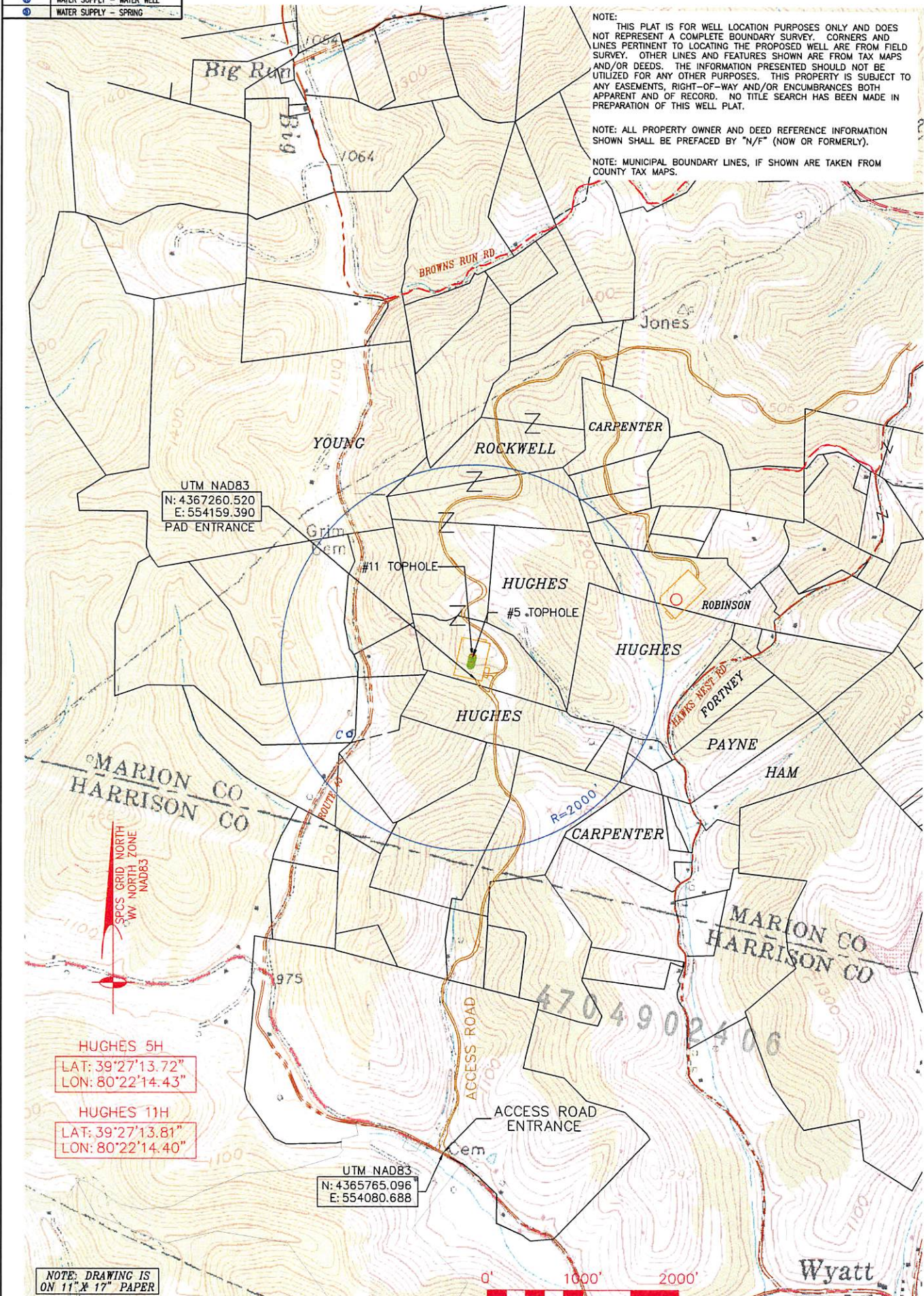


Subscribed and sworn before me this 19 day of Oct., 2015.

Dianne Rickles Notary Public

My Commission Expires Sept. 26, 2018

LEGEND	
	WATER SUPPLY - WATER WELL
	WATER SUPPLY - SPRING



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



HUGHES UNIT 10/23/2015
WATER OVERALL
XTO ENERGY INC.

DRAWN BY: BMK	DATE: 8/12/15	MANNINGTON TOWNSHIP MARION COUNTY, WEST VIRGINIA
SCALE: 1" = 1000'	SHEET	FILE NO. XTO0057-11

SEP 02 2015

	Hughes	
Landowners	Faye Rockwell, 316 East Run Rd., Farmington, WV 26571	
	David Webb, 931 Joetown Rd., Mannington, WV 26582	
	Fara May Webb, 1084 Joetown Rd, Mannington, WV 26852	
	Gerald Lucas Heirs, 1457 Wyatt 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	Faye Rockwell, 316 East Run Rd., Farmington, WV 26571	
	Consolidation Coal Company, 1000 Consol Energy Drive, Canonsburg, PA 15317	
	Murray American Energy, attn: Troy Freels, 1 Bridge St, Monongah, WV 26554	
Water Owners	Faye Rockwell, 316 East Run Rd., Farmington, WV 26571	
Within 625'	NA	

470 4902406

Received 10/23/2015
Office of Oil & Gas
SEP 02 2015

XTO ENERGY INC.

XTO0657-09

HUGHES WATER OFFSET

(2000' OFFSET)

POINT	SOURCE	LAST NAME	MAILING ADDRESS	CITY	STATE	ZIP	BEARING	DISTANCE	PARCEL ID	WITHING 3000'
C	HOUSE POSSIBLE	FAVE C ROCKWELL	316 EAST RUN RD	FARMINGTON	WV	26571	S 56°50'53" W	1544		

4704902406

10/23/2015

8/17/2015

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

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

Date of Notice: July 27, 2015 **Date of Planned Entry:** _____

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)
Name: Faye C. Rockwell
Address: 316 East Run Rd.
Farmington, WV 26571
Name: _____
Address: _____
Name: _____
Address: _____

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

MINERAL OWNER(s)
Name: Faye C. Rockwell
Address: 316 East Run Rd.
Farmington, WV 26571
*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>39.453864, -80.370659</u>
County: <u>Marion</u>	Public Road Access: <u>Hawks Nest Rd</u>
District: <u>Mannington</u>	Watershed: <u>Coal Lick Run</u>
Quadrangle: <u>Shinnston 7.5</u>	Generally used farm name: <u>Hughes Unit 5H</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.

10/23/2015
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Office of Oil & Gas
SEP 02 2015

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: Faye C. Rockwell
Address: 316 East Run Rd
Farmington, WV 26571
Name: _____
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: N/A Access Route Only
Address: _____
 MINERAL OWNER(s)
Name: N/A Access Route Only
Address: _____
*please attach additional forms if necessary

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.453864, -80.370659</u>
County: <u>Marion</u>	Public Road Access: <u>Hawks Nest Rd</u>
District: <u>Mannington</u>	Watershed: <u>Coal Lick Run</u>
Quadrangle: <u>Shinnston 7.5</u>	Generally used farm name: <u>Hughes 5H</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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10/23/2015
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Office of Oil & Gas
SEP 02 2015

Coal Owners:

Consol Mining Company
1000 Consol Energy Dr.
Canonsburg, PA 15314

Murray American Energy
1 Bridge St.
Monongah, WV 26554

Faye C. Rockwell
316 East Run Rd.
Farmington, WV 26571

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Received 10/23/2015
Office of Oil & Gas
SEP 02 2015

WW-6A5
(1/12)

Operator Well No. Hughes 5H

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:** 9/1/15

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

CERTIFIED MAIL **HAND**
RETURN RECEIPT REQUESTED **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: Faye Rockwell
Address: 316 East Run Rd.
Farmington, WV 26571

Name: see attached
Address: _____

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>554145</u>
County:	<u>Marion</u>		Northing:	<u>4367327</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>Faye Rockwell</u>	
Watershed:	<u>Bingamon Creek</u>			

This Notice Shall Include:

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

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

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

Oil and Gas Privacy Notice:

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

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Received 10/23/2015
Office of Oil and Gas
SEP 02 2015

Landowners	Faye Rockwell, 316 East Run Rd., Farmington, WV 26571
	David Webb, 931 Joetown Rd., Mannington, WV 26582
	Fara May Webb, 1084 Joetown Rd, Mannington, WV 26852
	Gerald Lucas Heirs, 1457 Wyatt 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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SEP 02 2015



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 Hughes Well Pad, Marion County
Hughes 5H

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,

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

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



Hydraulic Fracturing Fluid Product Component Information Disclosure

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	XTO	Carrier/Base Fluid	Water	7732-18-5	100.00%	88.35%	
Sand (Proppant)	Universal	Proppant	Silica Substrate 67049024		100.00%	11.20%	
Hydrochloric Acid (10%)	PPG Industries	Acidizing	Hydrochloric Acid	7647-01-0	10.00%	0.00%	
			Other - (non-hazardous)		85.00%	0.00%	
Hydrochloric Acid (7.5%)	PPG Industries	Acidizing	Hydrochloric Acid	7647-01-0	7.50%	0.03%	
			Other - (non-hazardous)		92.50%	0.34%	
Acid Inhibitor, Unihib G	GeoSafe	Acid Inhibitor	Proprietary Blend Surfactants		35.00%	0.00%	
			Short Chained Glycol Ether	112-34-5	50.00%	0.00%	
			Ethoxylated alcohol		35.00%	0.00%	
Biocide, EC6116A	Nalco	Biocide	Dibromoacetonitrile	3252-43-5	5.00%	0.00%	
			2,2-Dibromo-3-nitrilopropionamide	10222-01-2	30.00%	0.00%	
			Polyethylene Glycol	25322-68-3	60.00%	0.01%	
			Other - (non-hazardous)		5.00%	0.00%	
Clay Stabilizer, Cla-Chek G	Shrieve	Clay Stabilizer	Water	7732-18-5	15.00%	0.00%	
			Other - (non-hazardous)		85.00%	0.00%	
Friction Reducer, Unislick ST-50	CESI Chemical	Friction Reducer	Petroleum distillates, hydrotreated light	64742-47-8	30.00%	0.02%	
			Other - (non-hazardous)		70.00%	0.04%	
Scale Inhibitor, ScaleHib A	Nalco	Scale Inhibitor	Ethylene Glycol	107-21-1	30.00%	0.00%	
			Other - (non-hazardous)		70.00%	0.01%	
Gel Breaker, LEB-10X	Universal	Gel Breaker	Ethylene Glycol	107-21-1	40.00%	0.00%	
			Other - (non-hazardous)		60.00%	0.00%	
Unigel 5F	Universal	Gel	Guar Gum	9000-30-0	99.00%	0.00%	
			Other - (non-hazardous)		1.00%	0.00%	
Slurry Gel, WGA-7 SLR	Universal	Gel	Guar Gum	9000-30-0	50.00%	0.00%	
			Petroleum Distillate	64742-47-8	55.00%	0.00%	
			Clay		5.00%	0.00%	
			Surfactant		5.00%	0.00%	
			Buffer		5.00%	0.00%	

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Office of Oil & Gas
SEP 02 2015

SEDIMENT CONTROL PLAN FOR THE HUGHES WELL PAD & ACCESS EAGLE & MANNINGTON DISTRICT HARRISON & MARION COUNTIES, WEST VIRGINIA

APPROVED
WVDEP OOG

[Signature]

2/25/2015

API# 4902361

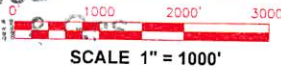


DISTURBED ACERAGE		
PROPERTY OWNER	TAX I.D.	DISTURBED AREA
FARA MAY WEBB	09-146-05	1.092 AC.
DAVID W WEBB	09-146-05.2	6.700 AC.
GERALD L LUCAS	12-59-9.2	0.100 AC.
CRIM FAMILY LIVING TRUST	12-59-55	1.600 AC.
JOHN G & RITA L HELDRETH	12-59-10	0.003 AC.
JANET NUTTER & BARBARA WAGNER	12-59-10.5	4.600 AC.
JOHN G & RITA L HELDRETH	12-59-10	6.700 AC.
CRIM FAMILY LIVING TRUST	12-59-55	0.040 AC.
FAYE C ROCKWELL	12-59-09	1.600 AC.
PERRY L HUGHES - ROAD	12-59-16	2.900 AC.
PERRY L HUGHES - PAD	12-59-16	1.300 AC.
FAYE C ROCKWELL - ROAD	12-59-08	4.500 AC.
FAYE C ROCKWELL - PAD	12-59-08	4.700 AC.



Received
Office of Oil

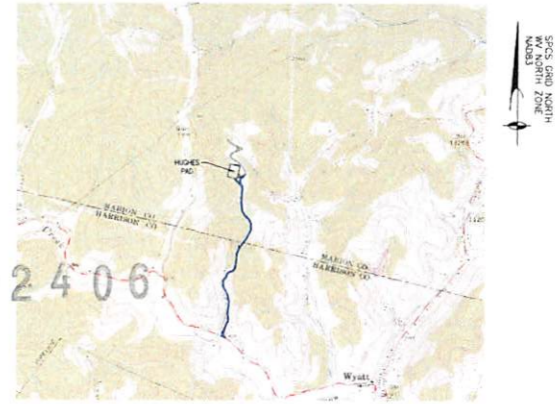
SEP 02 2015



REVISIONS			
NO.	DESCRIPTION	DATE	BY

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 UTILITIES EXCAVATIONS FROM COMPLYING WITH WEST VIRGINIA LAW REGARDING EXCAVATIONS, SAID REQUIREMENTS CAN BE SATISFIED, IN PART, BY CONTACTING THE MWV AT 1-800-245-4848.

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



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

4704902406

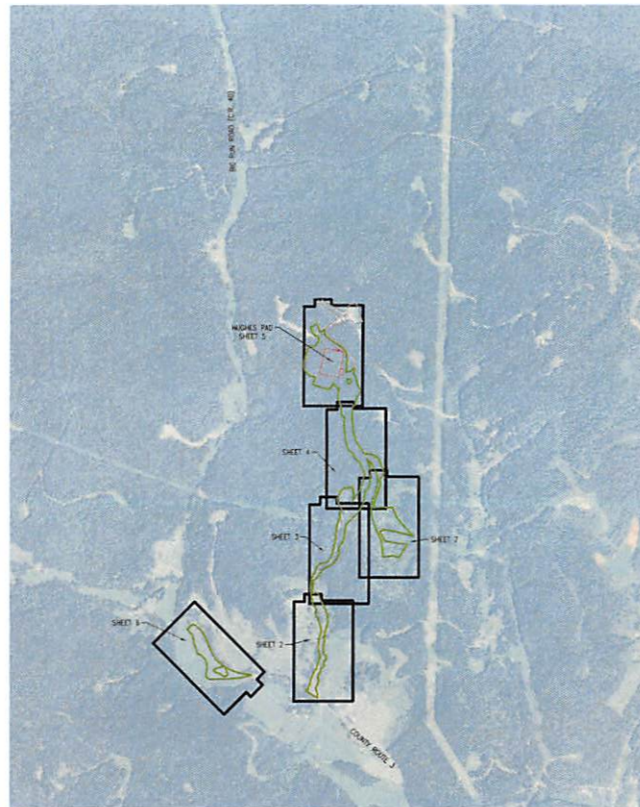
*WPH
8-28-15*

**APPROVED
WVDEP OOG**
[Signature] 2/25/2015

API# 4902361



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DRAWING INDEX		
PLAN	TITLE	SHEET NUMBER
SEDIMENT CONTROL PLAN		
SEDIMENT CONTROL PLAN	E&S CONTROL PLAN - COVER	SHEET 1
	ACCESS ROAD TO HUGHES WELL PAD	SHEET 2
	ACCESS ROAD TO HUGHES WELL PAD	SHEET 3
	ACCESS ROAD & FILL AREA 2	SHEET 4
	HUGHES WELL PAD, ACCESS ROAD, & STOCKPILE AREAS	SHEET 5
	FILL AREA 1	SHEET 6
	FILL AREAS 3, 4, & 5	SHEET 7
	ACCESS ROAD PROFILES	SHEET 8
	STOCKPILE CROSS SECTIONS	SHEET 9
	ACCESS ROAD CROSS SECTIONS	SHEET 10
	ACCESS ROAD CROSS SECTIONS	SHEET 11
DETAILS & NARRATIVE		
	DETAILS	SHEET 12
	DETAILS	SHEET 13
	DETAILS	SHEET 14
	NARRATIVE	SHEET 15
	NARRATIVE	SHEET 16
CONTAINMENT SET		
	PAD LAYOUT (DRILL PHASE)	SHEET 17
	PAD LAYOUT (FRAC PHASE)	SHEET 18
	DETAILS	SHEET 19

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XTO ENERGY
810 HOUSTON STREET
FORT WORTH, TX 76102

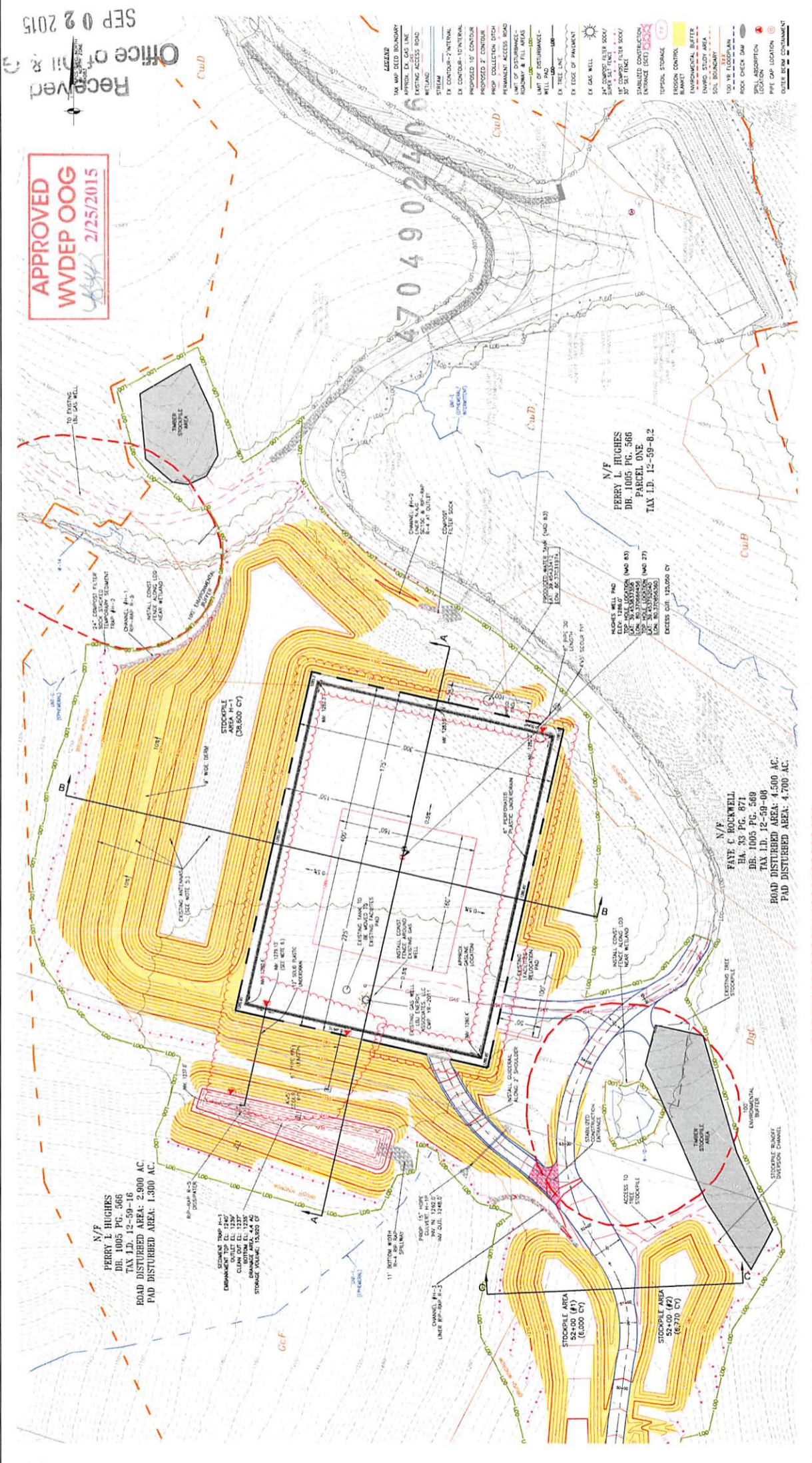
TRI-COUNTY ENGINEERING, LLC
318 Pointersville Road
Hurder, PA 15629
www.TriCountyEng.com
Voice: (724) 835-0210 Fax: (724) 835-0876

SEDIMENT CONTROL PLAN - COVER			
HUGHES WELL PAD & ACCESS ROADS			
Drawn By:	Date:	EAGLE DISTRICT, HARRISON COUNTY, MANNINGTON DISTRICT, MARION COUNTY, WEST VIRGINIA	
A/JG	1/29/15		
Scale:	AS NOTED	Sheet:	File No.:
WT #:	1205445	SHT: 1	XTO-0037-11

wp 8-15

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SEP 02 2015

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WVDEP OOG
2/25/2015



N/F
PERRY L. HUGHES
DB. 1005 PG. 566
TAX I.D. 12-59-16
ROAD DISTURBED AREA: 2,900 AC.
PAD DISTURBED AREA: 1,300 AC.

CONCRETE TOWER #1
DRAINAGE OUTLET EL. 1230'
CONCRETE TOWER #2
DRAINAGE OUTLET EL. 1235'
STOCKPILE MOUNTAIN TAILOR 02

1" BOTTOM WITH
SPILLWAY
FLOW CAPACITY
100 CFS
100% N. 1740 E.
100' DIA. 12" DIA.

LINE# R1000-#1-3
CHANNEL #1-3
100' N. 1740 E.
100' DIA. 12" DIA.

STOCKPILE AREA
52+00 (#1)
6,000 CY

STOCKPILE AREA
52+00 (#2)
6,770 CY

N/F
FAYE C ROCKWELL
HA. 83 PG. 871
DB. 1005 PG. 569
TAX I.D. 12-59-08
ROAD DISTURBED AREA: 4,500 AC.
PAD DISTURBED AREA: 4,700 AC.

HUGHES WELLS PAD
TOP SOIL STORAGE (MAG 83)
CON. NO. 2017000005
LOT 100' X 100' X 100'
CON. NO. 2017000005
DECKS (OT) 120,000 CY

N/F
PERRY L. HUGHES
DB. 1005 PG. 566
TAX I.D. 12-59-02

- LEASING
- TAX AND DEED BOUNDARY
- APPROX. EX. GAS LINE
- EXISTING ACCESS ROAD
- WETLAND
- STREAM
- EX. CONTOUR-INTERNAL
- EX. CONTOUR-EXTERNAL
- PROPOSED 1' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 3' CONTOUR
- PROPOSED 4' CONTOUR
- PROPOSED 5' CONTOUR
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- PROPOSED 97' CONTOUR
- PROPOSED 98' CONTOUR
- PROPOSED 99' CONTOUR
- PROPOSED 100' CONTOUR

STOP - CALL BEFORE YOU DIG!
Miss Utility of West Virginia
1-800-245-4848
TICKETS: 137704356 & 131704355

PLEASE REMEMBER: UNDESIRABLE UTILITIES ARE NEARBY. MAKE SURE THAT THIS PLAN SHOWS ALL EXISTING UTILITIES AND UTILITIES OF THE LOCATION OF EXISTING UTILITIES SHOWN HEREIN. CONTACT THE CONTRACTORS WHO WILL BE PERFORMING EXCAVATIONS FROM COMPANY BE SATISFIED IN PART BY CONTACTING THE MISS UTILITY AT 1-800-245-4848.

REVISIONS

NO.	DESCRIPTION	DATE
1	WVDEP OOG	2/23/15

10/23/2015

11. PROPOSED ROAD, RAIL AND CANAL WITH CONSTRUCTION AND MAINTENANCE SHALL BE COMPLETED PRIOR TO DRILLING AND COMPLETION OPERATIONS ON THE WELL. THE PROPOSED ROAD, RAIL AND CANAL SHALL BE ALIGNED USING DRILLING AND COMPLETION ACTIVITIES ON THE WELL. THE PROPOSED ROAD, RAIL AND CANAL SHALL BE ALIGNED USING DRILLING AND COMPLETION ACTIVITIES ON THE WELL. THE PROPOSED ROAD, RAIL AND CANAL SHALL BE ALIGNED USING DRILLING AND COMPLETION ACTIVITIES ON THE WELL.

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TRI-COUNTY ENGINEERING, LLC
1740 83A-2010
P.O. Box 15435
Mason, PA 15428
www.tri-countyeng.com
Phone: (724) 833-5978

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

Engineering
Innovative
SOLUTIONS SINCE 1979

SEDIMENT CONTROL PLAN
HUGHES WELLS PAD, ACCESS ROAD, STOCKPILE AREAS

Sheet No.	Date	Location
MFS	1/29/15	MANASSAS DISTRICT
MFS	1/29/15	WAGNER COUNTY, WEST VIRGINIA
Sheet 1	of 50	
Sheet 1	of 50	
Sheet 1	of 50	

Mining Layers

Permit Search Identity Layers

Layer	Permit Id	Name
underground mi		ROBINSON RUM NO 95

Attribute	Value
WVGES_CONUM	Digital Polygon from 2008, 2010
MIDS_URL	http://www.wvgs.wvnet.edu/wv/
MAP_YEAR	2010
ST_AREA_SH	125603401.282
ZSORT	2096
COMPANY_MA	CONSOL ENERGY

1 features selected. Get Details for 500040A

Add Points

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

Lat deg	Lat min	Lat sec	Lon deg	Lon min	Lon sec	Label
39.453810	0	0	-80.370874	0	0	new point

New Zoom Delete

new point

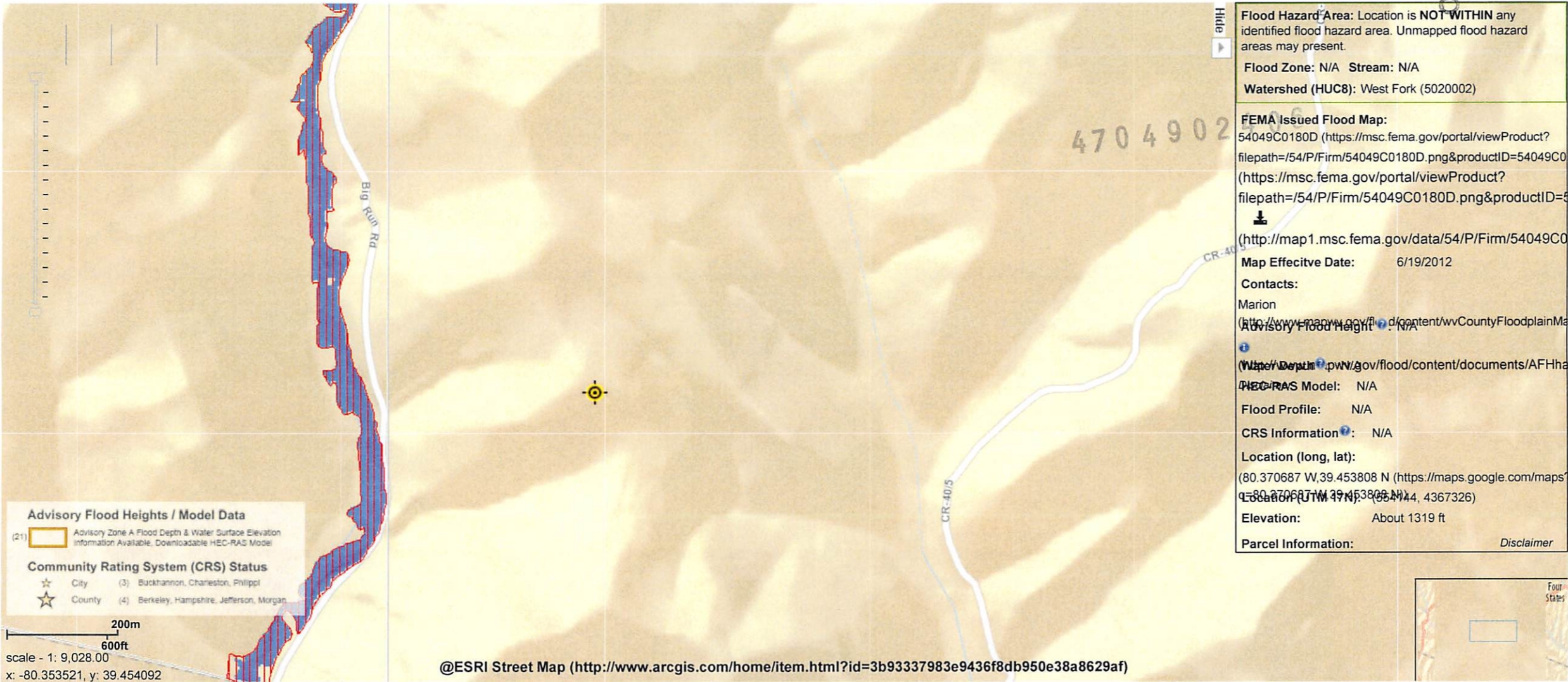
470490240
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Office of Oil & Gas
SEP 02 2015

10/23/2015

500 m

2000 ft

Received
 Office of City & County
 SEP 02 2015



Advisory Flood Heights / Model Data

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

Community Rating System (CRS) Status

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

200m
600ft
scale - 1: 9,028.00
x: -80.353521, y: 39.454092

@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)
 (http://map1.msc.fema.gov/data/54/P/Firm/54049C0180D)

Map Effective Date: 6/19/2012

Contacts:
 Marion
 (<http://www.wv.gov/flood/content/wvCountyFloodplainManagement>)

Advisory Flood Height: N/A

Water Depth: N/A
 (<http://www.wv.gov/flood/content/documents/AFHha>)

HEC-RAS Model: N/A

Flood Profile: N/A

CRS Information: N/A

Location (long, lat):
 (80.370687 W, 39.453808 N (<https://maps.google.com/maps?q=80.370687W,39.453808N>))
 Location (UTM 49N): (654, 4367326)

Elevation: About 1319 ft

Parcel Information: Disclaimer

