

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 10, 2014

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-4902342, issued to XTO ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

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

Operator's Well No: FENN B 5H

James Martin

Farm Name: XTO ENERGY, INC.

API Well Number: 47-4902342

Permit Type: Horizontal 6A Well

Date Issued: 10/10/2014

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

- 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 fifty (50) 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. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.



WW-6B (9/13)

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

WE	LL WORK P	ERMIT APPLICA	TION 49	3	606
I) Well Operator: XTO Energy	/ Inc.	494487940	Marion	Lincoln	Shinnston 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Fenn	B 5H	Well Pa	d Name: Fen	n Pad	
3) Farm Name/Surface Owner: X1	ΓΟ Energy I	nc. Public Roa	nd Access: M	arion Cour	ty Rt. 48
4) Elevation, current ground: 12	52' E	levation, proposed	post-construc	tion: 1252'	
5) Well Type (a) Gas	Oil _	Und	erground Stor	age	
Other					
(b)If Gas Shallo		Deep	_		
Horizo 6) Existing Pad: Yes or No Yes	ontal _				
 Proposed Target Formation(s), D Target Formation: Marcellus, D 				원인 - 연극하다 하다시다.	
8) Proposed Total Vertical Depth:	7,486'				
9) Formation at Total Vertical Dept	th: Marcellu	IS			
10) Proposed Total Measured Dept	h: 14,992'				
11) Proposed Horizontal Leg Lengt	th: 6,647'				
12) Approximate Fresh Water Strat	ta Depths:	406'			
13) Method to Determine Fresh Wa	ater Depths:	Offsetting Report	S		
14) Approximate Saltwater Depths	: None				
15) Approximate Coal Seam Depth	is: 412' & 46	31'			
16) Approximate Depth to Possible	: Void (coal n	nine, karst, other):	412'		
17) Does Proposed well location co directly overlying or adjacent to an			N	lo 🗸	
(a) If Yes, provide Mine Info: N	Name:				
Ĺ	Depth:				
S	Seam:				
(Owner:	- A 3	,		
		WRH 7-15	- 127		

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Fenn B 5H - Void Encounter

We will nipple up an annular preventer to be able to handle any flow should we encounter a void. We expect to encounter a void at ~412' GL where the Pittsburgh Coal seam has been removed. We plan to set 13 3/8" casing as a surface/coal protective string ~50' below the base of this void.

We will run a cement basket on the casing to be above the void.

We will cement the bottom of the casing in place as a balance job, then do a top out job on the annulus 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 ~3000'.

Derek Sanderson

Drilling Engineer

10/10/2014

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WW-6B (9/13)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	24"	New	В	95#	80'	80'	120 cuft - C.T.S
Fresh Water	13 3/8"	New	H-40	48#	460'	460'	500 cuft - C.T.S.
Coal							
Intermediate	9 5/8"	New	J-55	36#	3,000'	3,000'	Lead 7007/Tail 700" - C.T.S.
Production	5 1/2"	New	CYP-110	20#	14,992'	14,992'	Lead 1500'/Tail 1400'
Tubing							
Liners							

WRH 7-15-14

ТҮРЕ	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	28"	0.375"	960	Type 1	1.19
Fresh Water	13 3/8"	17.5"	0.33"	1,730	Type 1	1.19
Coal						
Intermediate	9 5/8"	12.25"	0.352"	3,520	Type 1	Lead 1.26/Tail 1.19
Production	5 1/2"	8.75" / 7.875"	0.361"	12,640	Ld 50:50 POZ/H/Tail Class H	Lead 1.11/Tail 1.19
Tubing			•			
Liners						

PACKERS

Kind:		
Sizes:	 	
Depths Set:		

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(9/13)
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 to30/50 mesh size. 12,500 bbls slick water with 220,000 lbs 40/70, 270,000 lbs 100 mesh sands and 2,200 gals FR 133, 1,500 gals Bioplex 301 and 1,500 gals Bioplex 301 and 1,190 gals antiscale 30. 3. Flush Stage - Slickwater water stage to fill the wellbore to flush the sand from the wellbore. Depending on the water quality, a biocide, friction reducer, iron control, and scale inhibitor may be injected during the completion as well.

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

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

23) Describe centralizer placement for each casing string:

Conductor: none

WW-6B

Fresh Water: 1"-6" above float shoe, 1 at float collar, & 1 at every 4th joint to surface Intermediate: 1"-6" above float shoe, 1 at float collar, & 1 at every 4th joint to surface

Production: 1 at every 2nd joint from TOC to TD

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

Conductor - Type 1 - no additives

Fresh Water - Tail - Type 1 - 2% Calcium Chloride, Super Flake Intermediate - Lead - Type 1 - 2% Calcium Chloride, Super Flake Tail - Type 1 - 2% Calcium Chloride, Super Flake

Production - Lead: 50/50 POZ/H -Tail Class H - R-3, FP-12L, CD-32, FL-52, ASA-301, SMS, FL-62, BA-10A

25) Proposed borehole conditioning procedures:

See attached sheet

*Note: Attach additional sheets as needed.

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i					Casing E	Design/Progra	m					Cementing Program	
Туре	Hole Size (inches)	Cag Size (In)	Length (fi)	Top/Bottom of String	Grade	Weight (ppf)	Wall Thickness	Burst Pressure Rating	Centralizer Placement	Турс	Yield (cu. ft/sk)	Additives (trade names are Baker Hughes)	Estimated Volume (cu fl.)
Conductor	28	24	80	0.180	В	95	0.375	960	none	Туре 1	1.19	none	120
Coal	22	18	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Surface / Fresh Water	17.5	13 3/8	460	0° / 460°	H-40	48	0.33*	1730	1-6" above float shoe 1-at float collar 1-every 4th jt to surface	Tail -Type 1	1.19	Calcium chloride, Super Flake	500
ntermediate	12.25	9 5/8	3000	0' / 3000'	J-55	36	0.352*	3520	1-6" above float shoe 1-at float collar	Lead-Type 1		Calcium Chloride, Super Flake	700
									1-every 4th it to surface	Tail-Type 1	1 19	Calcium chloride, Super Flake	700
					-	_				Lead: 50:50 POZ/H		R-3, FP-12L, CD-32, FL-52, ASA-301, SMS, FL-62, BA- 10A	1500
Production	8.75/ 7.875	5 1/2	14,992	0' / 14992'	CYP-110	20	0.361"	12640	every 2nd joint from TOC to TD	Tail. Class H		R-3, FP-12L, CD-32, FL-52, ASA-301, SMS, FL-62, BA- 10A	1400

			Fenn B 5H F	Proposed Wellbore Cond	itioning Procedures	
		Drilling		Coi	ndition Procedures	
Hole Section	Hole Size	Fluid	Orilling	At TD	Running Casing	Prior to Cementing
Conductor	28	AirfWater	Hole will be circulated with high pressure air	Hole will be blown clean with air prior to putting out of hole to run cosing	Hote will be filled with fluid and carculated to surface if conditions require	Casing will be filled with fluid and returns taken at surface prior to pumping coment
Coal	22	AirMater	Hole will be circulated with high pressure air	Hole will be blown clean with air pnor to pulling out of hole to run casing	Hole will be filled with fluid and circulated to surface if conditions require	Casing will be filled with filled and returns taken at surface prior to pumping cement
Fresh Water	17.5	AdWater	Hole will be circulated with high pressure air	Hole will be blown clean with air prior to pulling out of hole to run casing	Hole will be filled with fluid and circulated to surface if conditions require	Casing will be filed with fluid and returns taken at surface prior to pumping cement
Intermediate	12.25	Ast/Water	Hole w [®] be circulated with high pressure air	Hole will be blown clean with air prior to pulling out of hole to run casing	Hole will be filled with fluid and circulated to surface if conditions require	Casing will be filled with fluid and returns taken at surface prior to pumping cement
77 Production	8 75"/7 875"	Air / Non- aqueous based mud	cuttings out of the hole. MW will be approximately 11 Sppg-14 Oppg for stability and overbalance. As required, the hole will be circulated at high pump	The hole will be circulated at maximum possible pump rate and the drill string will be rotated at the maximum rpm	Hale will be circulated as necessary while running easing	Hole will be circulated at least one bottoms up pnor to pumping cement.
Tubing Tubing						
Liners						

oduction 8 75-77 875	aqueous based	11 Sppg-14 Opp	for stability and		pump rate and	be circulated at make I the drill string will be maximum rpm		Hate will be circulated as necessary white casing	CUNUID :	Hole will be circulated at least one bottoms up pnor to pumping cement.
Tubing										
Liners						·				
^		<u>-</u>	-	-						
				Fe	nn B 51	l Propose	d Direct	ional Data		
~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						•				
								Other directi	onal da	ta
1 07 77	7							KOP	5000	
	oposed Angle/Di	rection of Well		90	283	Lateral		LP	8345	
				5000		КОР		approx. TD	14992	
ele and Electione				39	45	Curve/Throw				
7,0								·		
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	Tubing Liners Office O	Approx Tepth 8 which wer deviate fe and Exercised Non-vertical werb	adjustion 8 75/1 875' aqueous based 11 5000-14 0por required, the he required, the he required to he required t	adjustion 8 75/7 875" adjustion based 11 \$600-14 topg for etaberty an required, the hole will be circus. Tubing Liners Measured the hole will be circus. Photosed Angle/Direction of Well Approx Tepth 89 which well deviates from vertical depth is reached.	aqueous based in 1 5000-14 Oppg for stability and overbalance. As required, the hole will be circulated at high pump. Tubing Liners Fe Property Angle/Direction of Well Depth Angle Approx—Both Bywhich well deviates from vertical depth angle of and Direction—Non-vertical well-pore until target depth is reached 39	Approx Tepth 87 Non-vertical wendore until target on the first reached and the first rea	Approx Septiment Non-vertical werders and target depth is reached. 1	Approx Septiment Non-vertical werdone until target depth is reached at the depth is reached. Septiment and the draft string will be rotated at the maximum right. 1	Approx Septiment Non-vertical werders and target depth is reached. So pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum rpm pump rate and the drift string will be rotated at the maximum	Approx Septil By which west deviated as from vertical Approx. TD 14992 To an approx septil By which west deviates from vertical septil and open the strong will be circulated at the maximum rpm and the drull strong will be circulated at the maximum rpm approx. TD 14992 Trubing Liners Septil By which west deviates from vertical septil and

49-02342

			Fenn B 5H		M	T
			arion County, W Drill Horizontal		EN	VERGY
PROPOSED LOGGING	MUD SYSTEM		<u> </u>		CASING AND CEMENT PROGRAM	HOLE SIZE
			***************************************	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	cement to surface 24" 0.375" line pipe	24"
none	Air	1		approx. 80'	cement to surface	17.5"
***************************************			***************************************	460	13 3/8" 48# H-40, STC	
none	Air			approx. 460'	cement to surface	12.25"
	***************************************		 	min. 3000'	9 5/8" 36# J-55 LTC	
	Water					8.75"
			KOP: @ 5000'		Top of Lead: 4500' MD	
no open hole wireline logs	@ mud up point displace hole with mud Mud: Escaid 110-synthetic based MW: 12.5 ppg +/- 0.1 ppg 6 rpm: 12-15 YP: 25-30 PV:20-25				Top of Tail:8200' Acid Soluble Cement 5.5" 20# CYP-110 CDC	7.875"
			6647' lateral	~14992'MD/7486'TVD	Office of Oil	0/2014
						and Gas

JUL 17 2014

Environmiontal Protection

API Number 47 -	49	- 02342
Operator's	Well No.	Fenn B 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)_West Fork	River 0502000206	Quadrangle Shinnston 7.5'
Elevation 1252	County Marion	District Lincoln
Do you anticipate using more than 5 Will a pit be used? Yes	5,000 bbls of water to complete	e the proposed well work? Yes No
If so, please describe antici		
Will a synthetic liner be us	ed in the pit? Yes N	No If so, what ml.?
Proposed Disposal Method		
Reuse (a	ound Injection (UIC Permit N 1 API Number Disposal (Supply form WW-9	lumber4707302523_4705500319_4705505151_4708509721_3416729577_3412124037_3405320968_) of for disposal location)
Will closed loop system be used? If	so, describe: Depending on brand, system	m would crital 2 contribuges & another cutting drying mothod grinder, drying shakers or verbig mud
		? Air, freshwater, oil based, etc. Airwater to 7100' then switch to synthetic
_	ynthetic, petroleum, etc.Synthe	
Additives to be used in drilling med	-	
Drill cuttings disposal method? Lea		
		sed? (cement, lime, sawdust) NA
•		_andfill - #SWF 1032, S&S Landfill - #SWF 4902
on August 1, 2005, by the Office of provisions of the permit are enforce law or regulation can lead to enforce I certify under penalty of application form and all attachme	Oil and Gas of the West Virging eable by law. Violations of a sement action. law that I have personally expressed on the state of the that the information is true.	nditions of the GENERAL WATER POLLUTION PERMIT issued in the initial Department of Environmental Protection. I understand that the injury term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for e, accurate, and complete. I am aware that there are significantly of fine or imprisonment.
Company Official Signature	12	
Company Official (Typed Name)		
Company Official Title Production	n Superintendent	
Subscribed and sworn before me thi	Tity Lat	, 20 / 4 Notary Public
My commission expires	12/22/18	10/10/201
my commission expires	10100/10	



orm WW-9	Operator's Well No. Fenn B 5H
KTO Energy Inc.	Operators well No.
၁ 2	w, 12.34 total Prevegetation pH
Lime Tons/acre or to correct to pH 10-20-20 Fertilizer type	
500	os/acre
Mulch 2-3 Tons/a	acre
Seed	d Mixtures
Temporary	Permanent
Seed Type Ibs/acre Flexterra Hydroseed per E&S plans	Seed Type lbs/acre Flexterra Hydroseed per E&S plans
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WV Department of Environmental Protection

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XTO Drilling Additives

	_	Approximate Amount
Product Name	CAS#	on Location (lbs)
Bentone 910	14808-60-7	2500
Cedar Fiber	n/a	5000
CyberDrill	93762-80-2	20000
Calcium Chloride	10043-52-4	20000
	111-40-0	
	26952-14-7	
CyberCoat	62442-97-7	3000
CyberMul	70321-73-2	3000
CyberPlus	71-36-3	3000
Lime	1305-62-0	15000
New Carb	1317-65-3	3000
Walnut Shells	n/a	2500
	7727-43-7	-
	1332-58-7	
	14808-60-7	
New Bar	471-34-1	200000
OptiThin	68442-97-7	8000
	12174-11-7	
	14808-60-7	
Oil Dry	01309-48-4	600
	9016-45-9	
	68131-71-5	
	1310-73-2	
	27176-87-0	
	1300-72-7	
OptiClean	7758-29-4	1800
OptiG	12002-43-6	5000
SynDril 470	64741-86-2	81000

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