

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

August 31, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-8510235, issued to EQT PRODUCTION COMPANY, 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: 512426

Farm Name: RAY, RICHARD L. & SHERYL A.

API Well Number: 47-8510235

Permit Type: Horizontal 6A Well

Date Issued: 08/31/2015

API Number:	
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PERMIT CONDITIONS 4708510235

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

- Operator shall take additional measures with this permitted activity to avoid communication with offset wells. Such additional measures are described in the attached addendum. This addendum is part of the terms of the well work permit, and includes a description of depth and completed formations of offset wells. Also included is a description of monitoring activities that will take place during fracturing operations of the permitted well work.
- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE 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.

API Number:	
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PERMIT CONDITIONS 4708510235

- 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.

(4/15)

4708510235

OPERATOR WELL NO.
Well Pad Name:

512426 OXF122

STATE OF WEST VIRGINIA

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

1) Well Operator:	FOT Producti	on Compony		000000				
i) Well Operator.	LQ1 Floudett	on Company		306686	085	4	526	
				Operator ID	County	District	Quadrangl	е
2) Operator's Well i	Number:		512426		_Well Pad Nam	e	OXF122	
							OM ILL	
3) Farm Name/Surf	ace Owner: _	Richa	rd L & Shery	I A Ray	_ Public Road Ad	ccess:	7/18	
4) Elevation, curren	t ground:	1,111.0	_ Eleva	tion, proposed p	ost-construction:	1,111	.0	
5) Well Type: (a) Ga	as	Oil	Ur	nderground Stor	age			
Ot	her							
		Shallow		Deep				
	H	Horizontal						
6) Existing Pad? Ye	s or No:	yes						
7) Proposed Target	Formation(a)	Domith(a) A-1:-	da ancier re nocie	ERROR - STEEL COLORS OF STEEL	W 50 W 50			
7) Proposed Target								
Target formation is	Marcellus at a	depth of 648	9 with the antici	pated thickness to b	e 54 feet and antic	pated target pres	sure of 21	90 PSI
8) Proposed Total V	ertical Depth:				C400			
9) Formation at Tota					6489			
10) Proposed Total I	Measured Dep	L.C.			Marcellus			
11) Proposed Horizo					15210 6,413			_
12) Approximate Fre					236			
13) Method to Deter					By offset we	lle		-
14) Approximate Sal	twater Depths:				N/A	:115		
15) Approximate Co	al Seam Depth	s:			929			
16) Approximate De			ne, karst, oth	er):	020	None rep	ortod	
17)Does proposed w	ell location co	ntain coal sean	ns directly ov	erlying or	-	None rep	orteu	
adjacent to an a			= ==::::::::::::::::::::::::::::::::::		!S	No x		
(a) If Yes, provid	le Mine Info:	Name:				110 1		
		Seam:						
		Owner:						

Page 1 of 3

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4708510235

API NO.	47	F	085	
OPERATO	RWE	LLNO		512426
Well Pag	d Nar	ne:		OXF122

CASING AND TUBING PROGRAM

18)							
TYPE	<u>Size</u>	New	Grade	Weight per ft.	FOOTAGE: For	INTERVALS:	CEMENT:
	<u>(in)</u>	<u>or</u>		(lb/ft)	Drilling (ft)	Left in Well	Fill- up (Cu.Ft.)
		Used				(ft)	- ap (odii t.)
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	MC-50	54	386	386	356 C.T.S.
Coal	-	-	_	_	_	-	_
Intermediate	9 5/8	New	MC-50	40	2,982	2,982	1,185 C.T.S.
Production	5 1/2	New	P-110	20	15,210	15,210	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set
Liners							100' less than TD

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	20	. 24	0.375	<u>.</u>	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,480	2,184	* See Note 2	1.21
Coal						***************************************	
Intermediate	9 5/8	12 3/8	0.395	3,590	3,160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10,112	-	1.27/1.86
Tubing					,		
Liners			**************************************				

Packers

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

Note 1: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

Note 2: Reference Variance 2014-17. (Attached)

Page 2 of 3

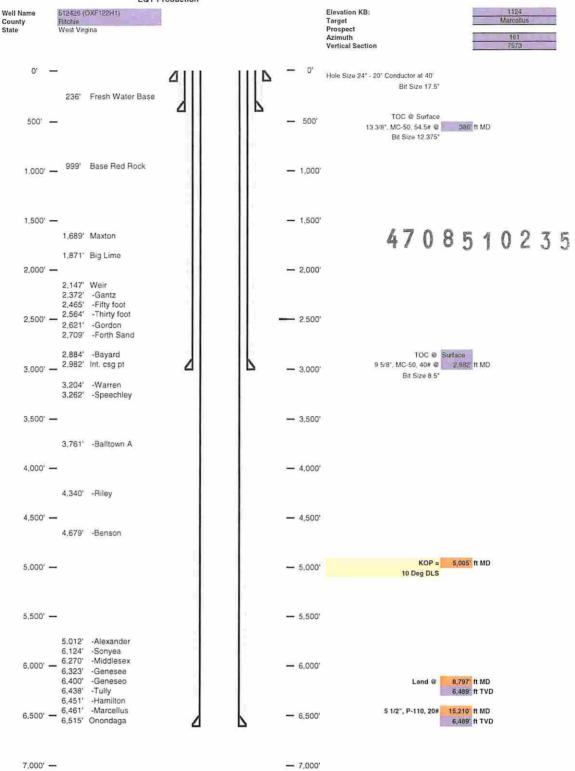
Received
Office of Oil & Gas
JUL 3 0 2015

WW - 6B	API NO. <u>47</u> - <u>085</u>	<u> </u>
(10/14)	OPERATOR WELL NO.	512426
	Well Pad Name:	OXF12
19) Describe proposed well work, including the drilling and plugging back of any p	pilot hole:	
Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down	to an approximate depth of 5005'.	
The kick off the horizontal leg into the Marcellus using a slick water frac.		
20) Describe fracturing/stimulating methods in detail, including anticipated max polydraulic fracturing is completed in accordance with state regulations using water recycled from previous fracturing is completed in accordance with state regulations using water recycled from previous fracturing.	ressure and mex rate:	
Hydraulic fracturing is completed in accordance with state regulations using water recycled from previ	ously fractured wells and obtained from 0 2	75
freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemic gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a		
anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipa	ated treating rates are expected to average	
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 b	arrels of water per stage. Sand sizes	
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.		
		
21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres):	No Additional	
22) Area to be disturbed for well pad only, less access road (acres):	No Additional	
23) Describe centralizer placement for each casing string.		
Surface: Bow spring centralizers – One at the shoe and one spaced every 500'. Intermediate: Bow spring centralizers – One cent at the shoe and one spaced every 500'.	/en/ 500'	
Production: One spaced every 1000' from KOP to Int csg shoe	Cry 300.	
24) Describe all coment additives associated with each associated	-	
24) Describe all cement additives associated with each cement type. Surfactive to speed the setting of cement slurries.	ce (Type 1 Cement): 0-3% Calcium Chloride	
.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurr	y to a thief zone.	
ntermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperatur	e formations to speed the setting of cement	
sturries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole do	rilling fluid or cement slurry (not filtrate)	
Production:		
ead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.		
.3% CFR (dispersant). Makes cement easier to mix.		
Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.		
.2-0.3% CFR (dispersant). This is to make the cement easier to mix.		
0 % Calcuim Carbonate. Acid solubility.		
1.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.		_
,		
(5) Proposed berehole conditioning precedures.		
5) Proposed borehole conditioning procedures. <u>Surface: Circulate hole clean (Approximate Proposed Surface)</u>	_	ing
ne full joint until cuttings diminish at surface. When cuttings returning to surface diminish,	continue to circulate an additional 5	
ninutes. To ensure that there is no fill, short trip two stands with no circulation. If there is	fill, bring compressors back on	
nd circulate hole clean. A constant rate of higher than expected cuttings volume likely inc	dicates washouts that will not clean up.	
termediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one fu	ll joint until cuttings diminish at	
	minutes. If foam drilling, to enhance	
urface. When cuttings returning to surface diminish, continue to circulate an additional 5		
urface. When cuttings returning to surface diminish, continue to circulate an additional 5 ole cleaning use a soap sweep or increase injection rate & foam concentration.		
urface. When cuttings returning to surface diminish, continue to circulate an additional 5 ole cleaning use a soap sweep or increase injection rate & foam concentration. roduction: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gau	uge holes bottoms up volume.	OF11 / -
urface. When cuttings returning to surface diminish, continue to circulate an additional 5 ole cleaning use a soap sweep or increase injection rate & foam concentration.	uge holes bottoms up volume. volume of cuttings coming across	CEIVED

*Note: Attach additional sheets as needed.

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Well Schematic EQT Production

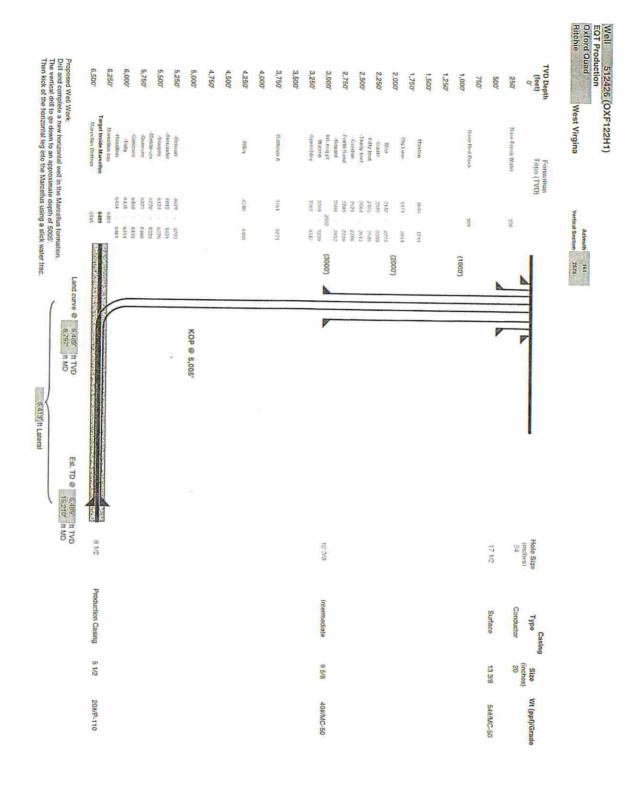


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WV Department of Environmental Protection 09/04/2015

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July 17, 2015

Mr. Gene Smith West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Casing Plan on Well (OXF122)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 386' KB, 150' below the deepest fresh water. We will set the 9-5/8" intermediate string at 2982' KB, 50' below the base of the Bayard formation.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark

Permitting Supervisor

Enc.

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Office of Oil & Gas
JUL 3 0 2015

And



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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 dep.wv.gov

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121 Indiana PA 15701 4708510235

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

1 +1

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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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 dep.wv.gov

BEFORE THE OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION, STATE OF WEST VIRGINIA 47 0 8 5 1 0 2 3 5

IN THE MATTER OF A VARIANCE FROM)	ORDER NO.	2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1)		
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE)		
THE OPERATIONAL)		
REGULATIONS OF CEMENTING OIL)		
AND GAS WELLS)		

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
 hours.

Promoting a healthy environment.

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CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion 5 1 2 3 5 Production Services Co. shall keep a record of cement blend jobs in which the cement tiend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

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WV Department of Environmental Protection WW-9 (2/15)

	Page		1	of	2
API No. 47	*	085	-		0
Operator's \	Wel	I No.			512426

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name EQT Production Company OP Code 306686	
Watershed (HUC10) Straight Fork Quadrangle Oxford 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes x No	
Will a pit be used ? Yes: X No:	
If so please describe anticipated pit waste: flowback water & residual solids	
Will a synthetic liner be used in the pit? Yes X No If so, what ml.? 60	
Proposed Disposal Method For Treated Pit Wastes:)
Land Application	
Underground Injection (UIC Permit Number 0014, 8462, 4037	
 Reuse (at API Number Various Off Site Disposal (Supply form WW-9 for disposal location) 	<u></u>
Other (Explain	
Will closed loop system be used ? Yes, The closed loop system will remove drill cuttings from the drilling	
fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	
Air is used to drill the top-hole sections of the wellbore (surface, infermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize	
and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or eil based mud.	
- If oil based, what type? Synthetic, petroleum, etc Synthetic mud	- 40075
Additives to be used in drilling medium? Air - biodegradable oil lubricant , detergent, defoaming, water. Water based must - Bahte, visco	5 10235
alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.	
Oil based mud – synthetic base oil, barite, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates,	
biodegradable oil lubricant , defoaming, carbonates.	
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, Line, sawdust) n/a	
- Landfill or offsite name/permit number? See Attached List	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected 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	
Company Official (Typed Name) Victoria Roark	
Company Official (Typed Name) Victoria Roark Company Official Title Permitting Supervisor	RECEIVED
Company Official (Typed Name) Victoria Roark	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Victoria Roark Company Official Title Permitting Supervisor	RECEIVED Office of Oil and Gas
Company Official (Typed Name) Victoria Roark Company Official Title Permitting Supervisor Subscribed and sworn before me this 3 day of July , 20 15	RECEIVED Office of Oil and Gas

Form WW-9		Operator's Well No.		47	5124	8	5	1	0	2	3	5
Proposed Revegetation Treat	ment: Acres Dist	urbed No Additional Prevegetation	n pH		5.8							
Lime3	Tons/a	cre or to correct to pH6.5										
Fertilize type	Granular	0-20-20										
Fertilizer Amount	1/3	lbs/acre (500 lbs minimum)										
Mulch	2	Tons/acre 4 7	7 0	8 5	5 1	0	2	3	5			
		Seed Mixtures				-		-	w			
Tempora	ry	Permanent										
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/a	acre								
Alsike Clover	5	Alsike Clover	5									
Annual Rye	15					_						
Attach: Drawing(s) of road, location,pit Photocopied section of involve												
Plan Approved by:	Dariel 1	Meur		-		_						
Comments: Prise	camplet	ld all cut area - me										
						_						
						_						
						_						
Title: orlaga	s moles	Declar Date: 7-27-15				_						
Field Reviewed? (11	Yes () No										

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EQT Production Water plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

P.O. Box 391 Williamstown, WV 26187 740-516-3586 Noble County/Noble Township Permit # 3390

LAD LIQUID ASSETS DISPOSAL INC.

226 Rankin Road Washington, PA 15301 724-350-2760 724-222-6080 724-229-7034 fax Ohio County/Wheeling Permit # USEPA WV 0014

TRI COUNTY WASTE WATER MANAGEMENT, INC.

1487 Toms Run Road Holbrook, PA 15341 724-627-7178 Plant 724-499-5647 Office Greene County/Waynesburg Permit # TC-1009

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

Waste Management - Northwestern Landfill

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV

BROAD STREET ENERGY LLC

37 West Broad Street Suite 1100 Columbus, Ohio 43215 740-516-5381 Washington County/Belpre Twp. Permit # 8462

TRIAD ENERGY

P.O. Box 430
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobel County/Jackson Township
Permit # 4037

KING EXCAVATING CO.

Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101 Facility Permit# PAR000029132

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WV Department of Environmental Protection



Site Specific Safety Plan

EQT OXF 122 Pad

4708510235

West Union Ritchie County, WV

5124210	For W	ells: 	
EQT Production Plemitting pen Title 7 21-15 Date	Date Prepared:	Title	Gas Inspector Gas inspector 27-15 Received Office of Oil & Gas

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: Oxford 122

Ritchie County, WV

7/23/15

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Ritchie County, WV prior to hydraulic fracturing at the following EQT wells on the Oxford 122 pad: 513762, 512426, 512427, 512428, 512500, 512501, 514081, 514082.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,200' TVD).

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Conventional Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known conventional wells and well operators within 1,500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is attached.

Upon approval of this plan, EQT will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is attached.

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to EQT and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities dufing and after fracturing operations:

- Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

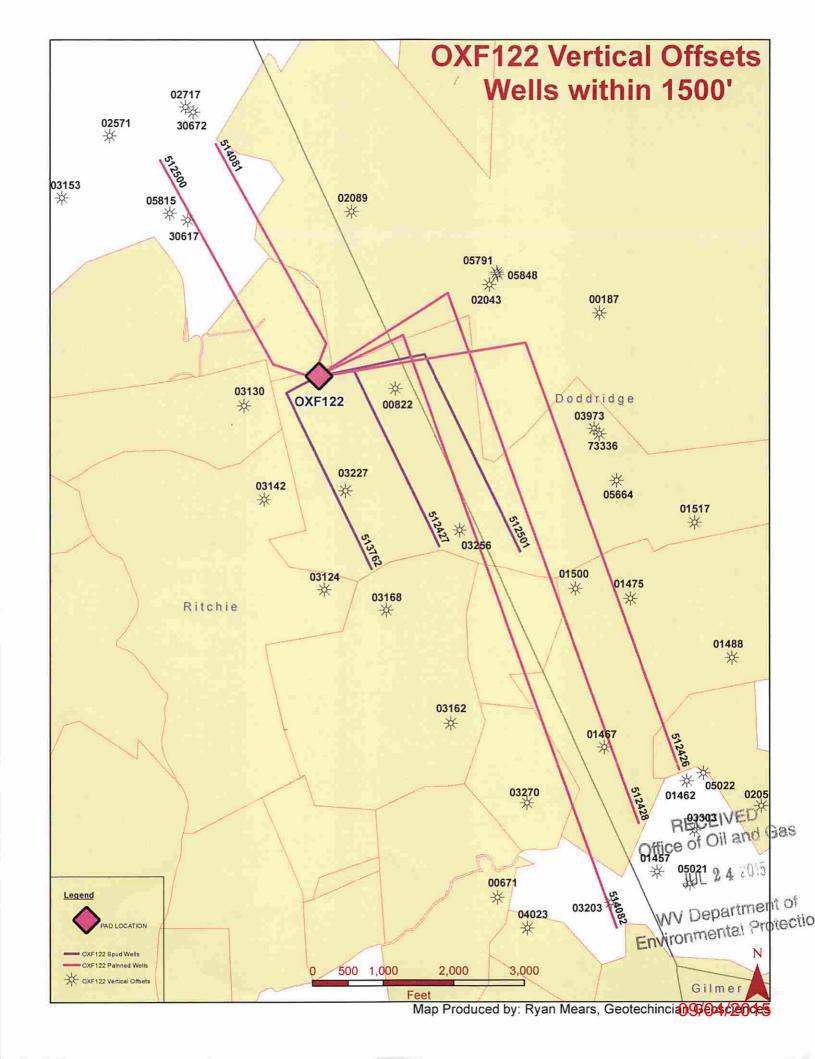
EQT will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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Office of Oil and Gas

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WV Department *
Environmental Protection



Measured from well#~ 512425	512428	612426	512428	542426		5 826438 7.	\$ 21,526 £		_	ル 覧 nn	ル 語。 な	512 A	5122	212426 212426	212428	512428	512426	514082	514082	512500	514081	513762	513762	513762	512500	514082	513762	514082	513762	514082	514082	512426	514082	512500	512500	514081
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# :	•	•	•	170 -5404	1241 -5404	284 -5404	1392 -5404	591 -5404	1275 -5404	1214 -5404	798 -5404	1129 -5404	345 -5404	554 -5404	748 -5404	752 -5404	542 -5404	1447 -5404	362 -5404	788 -5404	666 -5404	737 -5404	627 -5404	•	•	•	•	٠		Ċ	29. X85	500 1500	1194 -5404	244 -5404	69 -5404	543 -5404
Lateral Map Distance (ft)												••														·	Q S	ራ ሪ	<u>۹</u>	•						
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<u>10</u> 1925.0000	•	•••		1866.0000	2226.0000	2045.0000	1855.0000	1835.0000	1981.0000	2041.0000	5723.0000	5228.0000	5236.0000	6378.0000	6291.0000	6260.0000	1526.0000	2303.0000	1822.0000	1453.0000	2460.0000	2053.0000	1980.0000	2120.0000	•	• •		•	1929.0000	2031.0000	1969.0000	0000'66666	2180.0000	5204.0000	2531.0000	2018.0000
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Permit 00187	01457	01462	01467	01475	01488	01500	01517	02043	02056	02089	03303	05021	05022	05664	05791	05848	73336	00671	00822	02571	02717	03124	03130	03142	03153	03162	03168	03203	03227	03256	03270	03973	04023	05815	30617	30672
Latitude Longitude Well Status 39.1347000 -80.8169000 GAS	39.1129900 -80.8141050 GAS	39.1165500 -80.8126100 GAS	39.1178600 -80.8167200 O&G	39.1236200 -80.8154000 GAS	39.1213200 -80.8103300 GAS	39.1240200 -80.8181500 GAS	39.1265707 -80.8121801 GAS	39.1358020 -80.8224240 GAS-P	39,1155500 -80.8088900 GAS-P	39.1386400 -80.8293100 GAS	39.1146100 -80.8122300 GAS-P	39.1125250 -80.8124550 GAS	39.1168600 -80.8117800 GAS	39.1282050 -80.8160700 GAS	39.1362800 -80.8220600 GAS	39.1361900 -80.8220000 GAS	39.1300000 -80.8169400 GAS	39.1120000 -80.8221000 GAS	39.1317750 -80.8271410 GAS	39.1416000 -80.8414000 GAS	39.1427000 -80.8376000 GAS	39.1240000 -80.8307000 GAS	39.1311280 -80.8347040 GAS	39.1275000 -80.8337000 GAS	39.1392000 -80.8438000 O&G	39.1188000 -80.8244000 GAS	39.1232000 -80.8276000 GAS	39.1118000 -80.8164000 GAS	39.1278340 -80.8296340 GAS	39.1262910 -80.8239350 GAS	39.1157000 -80.8206000 GAS	39.1302140 -80.8171970 GAS	39.1108050 -80.8206051 O&G	39.1386000 -80.8384000 O&G	39.1383300 -80.8375000 GAS	39.1425000 -80.8372200 GAS
Operator DEP MARSHALL GAS & OIL CORPORATION	RITCHIE PETROLEUM CORP.	JESAM ENERGY	JESAM ENERGY	EPC	EPC	EPC	EPC	RITCHIE PETROLEUM CORP.	RITCHIE PETROLEUM CORP.	EPC	EPC	EPC	UNKNOWN	ZICKEFOOSE, R. L. AND W.F.	EPC	DALE, DAVID DBA DD OIL COMPANY	DALE, DAVID DBA DD OIL COMPANY	RITCHIE PETROLEUM CORP.	DEEM, J. F. OIL & GAS, LLC	RITCHIE PETROLEUM CORP.	P & C OIL & GAS, INC.	RITCHIE PETROLEUM CORP.	RITCHIE PETROLEUM CORP.	RITCHIE PETROLEUM CORP.	JESAM ENERGY	JESAM ENERGY	JESAM ENERGY	EPC	EPC	DEEM, J. F. OIL & GAS, LLC	UNKNOWN	UNKNOWN				
<u>WeiliD</u> <u>Operator GGX</u> 4701700187 P & M OIL	4701701457 WOLF RUN OIL & GAS	4701701462 WOLF RUN OIL & GAS	4701701467 WOLF RUN OIL & GAS	4701701475 WOLF RUN OIL & GAS	4701701488 WOLF RUN OIL & GAS	4701701500 WILLARD FERRELL	4701701517 JESAM ENERGY	4701702043 EPC	4701702056 EPC	4701702089 EPC	4701703303 1&1	4701705021 JAY-BEE	4701705022 JAY-BEE	4701705664 EPC	4701705791 EPC		4701773336 UNKNOWN	4708500671 TRI COUNTY PRODUCING	4708500822 EPC	4708502571 BRENNIE LYNCH	4708502717 BRENNIE LYNCH	4708503124 E W BOWERS & R WEEKS	4708503130 WILLARD FERRELL	4708503142 WOLF RUN OIL & GAS	4708503153 FRANCIS FRIESTAD	4708503162 E W BOWERS & R WEEKS	4708503168 E W BOWERS & R WEEKS	4708503203 WOLF RUN OIL & GAS	4708503227 STARLIGHT DEVELOP	4708503256 STARLIGHT DEVELOP	4708503270 WILLARD E FERRELL	4708503973 EPC	4708504023 EPC	4708505815 PETROLEUM RESOURCES	4708530617 PGH & WV GAS	4708530672 PGH & WV GAS

625 Liberty Ave, Suite 1700 Pittsburgh PA 15222 www.eat.com

TEL: (412) 395-3305 FAX: (412) 395-2156

John Centofanti Corporate Director, Environmental Affairs



March 25, 2014

[Conventional Well Operator] [address] [state]

4708510235

RE: Ritchie County Hydraulic Fracturing Notice

Dear Sir/Madam,

EQT has developed a Marcellus pad (Oxford 122 pad) located in Ritchie County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,200' TVD).

EQT anticipates conducting hydraulic fracturing at the Oxford 122 pad during the second quarter of 2015. We have identified conventional natural gas wells operated by your company within 1,500' (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during, and after fracturing operations:

- 1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
- Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified.

Please feel free to contact me at 412-395-3305 with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0440.

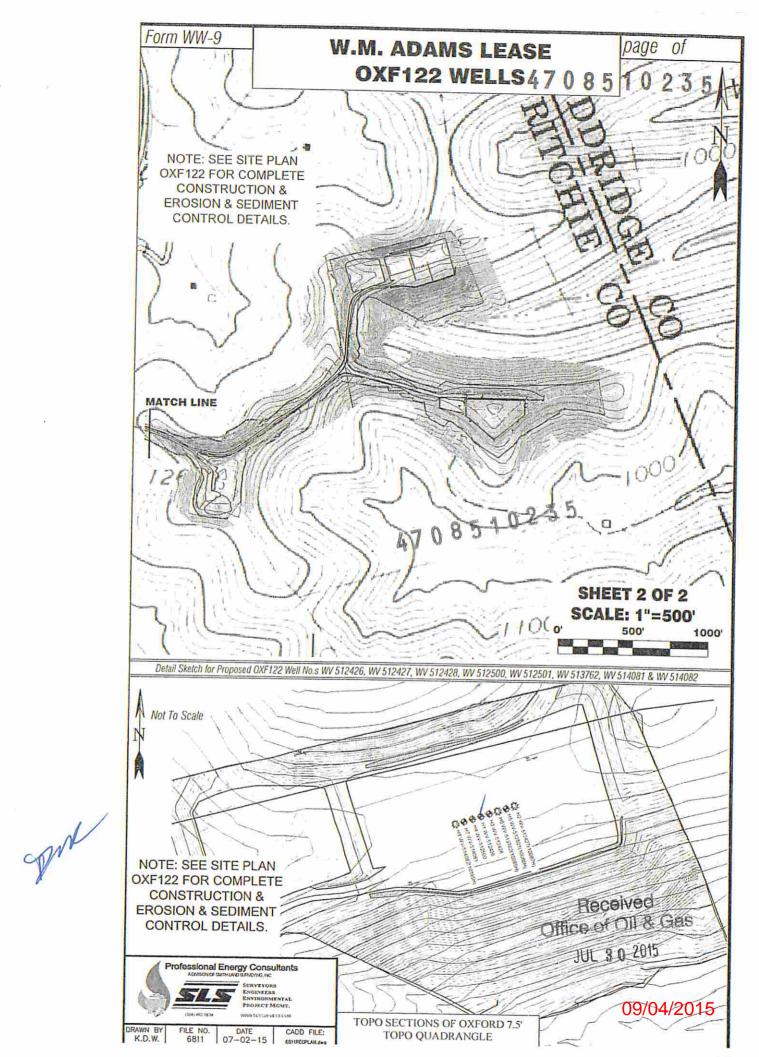
Sincerely, **EQT Production**

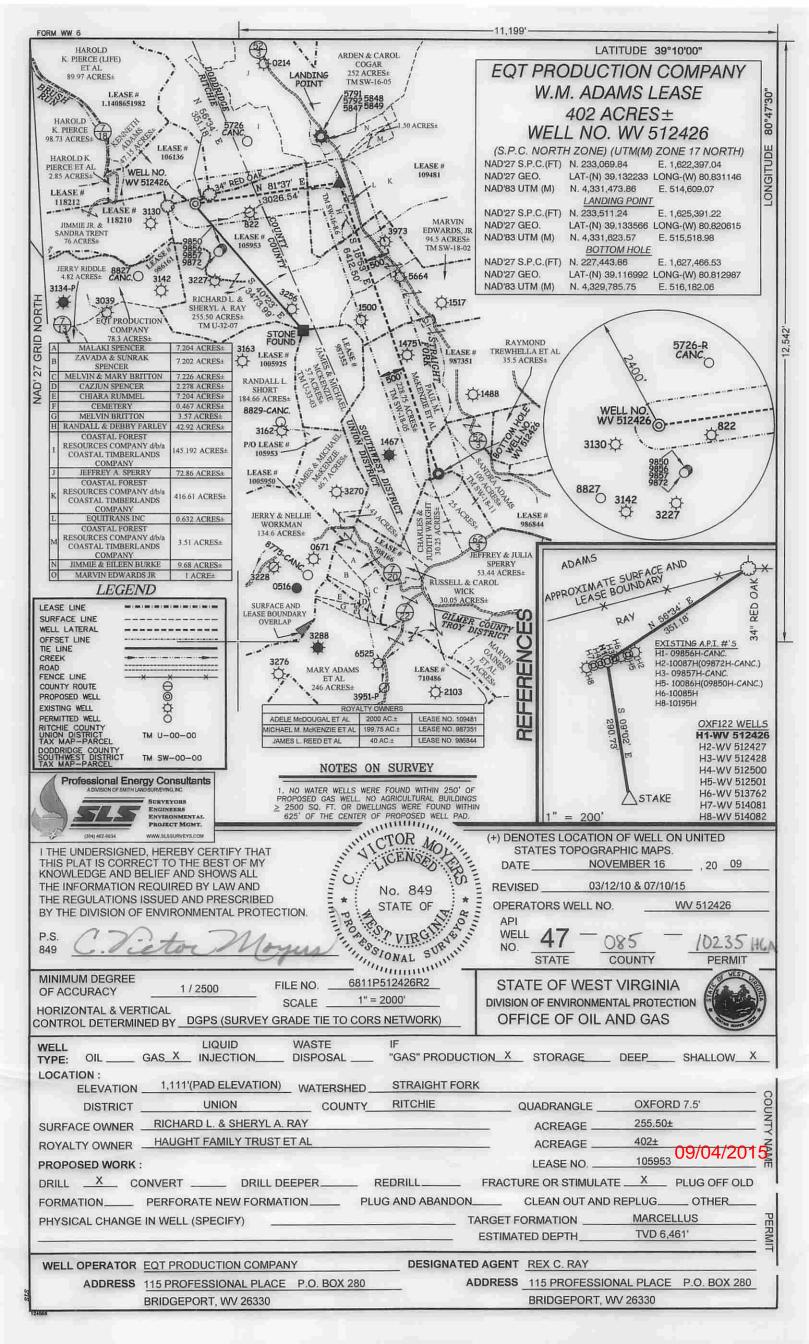
John Centofanti Corporate Director, Environmental Affairs

James Martin, WV Office of Oil and Gas CC:

Office of Oil and Gas

JUL 2 4 WV Department of Environme 09/04/2015





512426

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 plate 1 0 2 3 5 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	e or

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	
<u>105953</u>			Min 1/8 pd	-	<u> </u>
	William Adams, et ux	The Philadelphia Company of	West Virginia	LB29/244	
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia G	as Company	LB55/362	
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		LB126/473	
	Equitable Gas Company	Equitrans, Inc.		LB201/253	
	Equitrans, Inc.	Equitable Production-Eastern	States, Inc.	LB234/830	
	Equitable Production-Eastern States, Inc.	Equitable Production Company	у	DB281/346	Doddridge
	Equitable Production Company	EQT Production Company		DB281/346	Doddridge
<u>109481</u>			Min 1/8 pd		
	Jackson Leeson, et al	The Philadelphia Co. of West	Virginia	LB21/76	
	The Philadelphia Co. of West Virginia	Pittsburgh & West Virginia Gas	s Co.	DB87/90	
	Pittsburgh & West Virginia Gas Co.	Equitable Gas Company		DB121/303	
	Equitable Gas Company	Equitrans, Inc.		LB154/475	
	Equitrans, Inc.	Equitable Production-Eastern	States, Inc.	LB192/19	
	Equitable Production-Eastern States, Inc.	Equitable Production Company	у	CB281/346	Doddridge
	Equitable Production Company	EQT Production Company		CB281/346	Doddridge
<u>987351</u>			Min 1/8 pd		
	Jenny Catherine Burbank	EQT Production Company		LB253/576	
	Charles T. Reed	EQT Production Company		LB254/698	
	James L. Reed	EQT Production Company		LB254/701	
	Michael Marion McKenzie	EQT Production Company		LB255/717	
	Donald E. Reed	EQT Production Company		LB256/355	
	Jerry R. Reed	EQT Production Company		LB257/514	
<u>986844</u>			Min 1/8 pd		
	Barbara Schultz	EQT Production Company		LB253/280	
	Jerry R. Reed and Darlene M. Reed	EQT Production Company		LB254/616	
	Charles T. Reed	EQT Production Company		LB267/144	
	Donald E. Reed	EQT Production Company		LB267/148	
	James L. Reed	EQT Production Company		LB267/152 of 2 RECEIV	FD
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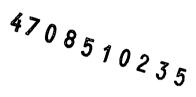
WV Department 15 Environmental Pro-

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

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: EQT Production Company
By:
Its: Permitting Supervisor
Page 2 of 2

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WV Department of Environmental Protection 09/04/2015

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

Date of No	otice Certification:		API No. 47 <u>085</u>	
		470854	Operator's Well No Well Rad Name:	512426
		47005	Well Lad Name:	OXF122
lotice has	s been given:			
		Code § 22-6A, the Operator has provided t	the required parties with t	he Motice Forms listed
elow for the	e tract of land as follows:	oodo 3 22 o/1, the operator has provided t	ine required parties with t	ne Notice Forms listed
state:	WV	UTM NAD 83 Easting:		514,609.07
County:	Ritchie	UTM NAD 83 Northing:		4,331,473.86
istrict:	Union	Public Road Access:		7/18
uadrangle:	Oxford 7.5'	Generally used farm name:	Ricl	nard L & Sheryl A Ray
atershed:	Straight Fork			
formation f giving the equirement irginia Cod f this article	required by subsections (b) and surface owner notice of entry to sof subsection (b), section sixted § 22-6A-11(b), the applicant so have been completed by the a		he requirement was deen n ten of this article six-a; o the surface owner; and F etary that the notice requi	ned satisfied as a result or (iii) the notice Pursuant to West
at the Ope		e Operator has attached proof to this Notic equired parties with the following:	e Certification	OOG OFFICE USE ONLY
		NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDU	JSE NO J	_ RECEIVED/NOT REQUIRED
NOTICE	OF ENTRY FOR PLAT SU	JRVEY or ✓ NO PLAT SURVEY W/	AS CONDUCTED	RECEIVED
7 NOTICE	E OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAU IT NOTICE OF ENTRY FOR PLATS WAS CONDUCTED OR	· · · ·	_ RECEIVED/NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFAC (PLEASE ATTACH)	E OWNER	
NOTICE	OF PLANNED OPERATIO	N	-	RECEIVED
PUBLIC	NOTICE		[[RECEIVED
NOTICE	OF APPLICATION		-	RECEIVED
				SECTIV
				RECEIV

Required Attachments:

SE

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 Child's Department C Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personnel Protection the return receipt card or other postal receipt for certified mailing. 09/04/2015

WW-6AC (1/12)

Certification of Notice is hereby given:

THEREFORE, I ________, 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:
 EQT Production Company
 Address:
 P.O. Box 280

 By:
 Victoria J. Roark
 Bridgeport, WV 26330

 Its:
 Permitting Supervisor
 Facsimile:
 304-848-0040

 Telephone:
 304-848-0076
 Email:
 vroark@eqt.com

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. HEATER
MOFARY CHATION COMPANY
PORTO 280
BRIDGEPORT, WV 26330
My commission expires April 07, 2020

Subscribed and sworn before me this

a day o

July

.

My Commission Expires

4-7-20

Oil and Gas Privacy Notice:

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

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WV Department of Environmenta PP/04/2015

WW6-A

Additional Surface Owners(road or other disturbance):

Kenneth P. Adams RR1 Box 143A West Union WV 26456 pg. 3 me Trecipts

Jimmie R. Trent, Jr and Sandra S. Trent 3630 Brushy Fork West Union WV 26456

Additional Coal Owners:

ET Blue Grass, LLC 625 Liberty Ave STE 1700 Pittsburgh PA, 15222

Sharron D. Otto 7615 Leon Ave Southport FL 32409

Anthony S. Otto 7615 Leon Ave Southport FL 32409

Joyce E. Strong Trust
Sharon Strong Thomas, Trustee
3561 Head of Pond
New Albany OH 43054

Warren R and Lenna G Haught 12684 Staunton Turnpike Smithville WV 26178

Betty M. Stanley Lee 3029 Lakeshore Drive Longmont CO 80503-1613

Theodore J. Stanley c/o Theodore Paul Stanley 38 Northridge Street Patchogue NY 11772--2822

William Nicholas Stanley 4520 Winston Lane N. Sarasota, FL 34235

Jeffrey G Adams 5800 Barbara Lane Prince George VA 23875-2243 4708510235

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WV Department of Environment 4/2015

Carey A. Adams 510 Wellshire Place Chester VA 23835

Gregory J Adams 109 S. Marion Avenue Hopewell VA 23860-3229

Kenneth E Adams 716 Spring Valley Road Colonial Heights VA 23834

pg. I mail recipts

Michael A Adams c/o Kenneth Adams, et al 120 Marlboro Drive McMurray PA 15317

Lisa A Adams 120 Marlboro Drive McMurray PA 15317

Laura Lee McQuenney 131 C. R. 916 Anna TX 75404

Christian Andersen PO Box 393 Mt. Nebo WV 26679

George W Adams Jr. Trust c/o Lisa A Adamsky 120 Marlboro Drive McMurry PA 15317

Lucy Mae Jameson 2320 Arlington Road Concord CA 94520

Roberta Neil Boston 35 Dog Lane Marshfield MA 02050

Michael Robert Boston 1420 22nd Street W Bradenton FL 34205

Deborah Jo Boston 9312 Ohop Valley Ext. Rd E Eatonville WA 98328

David L. Andersen P.O. Box 115 Sardis OH 43946 \$708570235

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WV Department of Environmental 89/04/2015

Darlene J Boston PO Box 232 New Matamoras OH 45767

Thomas J Boston PO Box 232 New Matamoras OH 45767

V. Kim Wayman 616 New London Rd Newark DE 19711

Terry F. Wayman 1651 Dixie Line Road -Elkton MD 21921

Dona L. Eberlin 117 St. Louis Drive Elkton MD 21921

Kenneth Mark Wayman 1649 Dixie Line Road Elkton MD 21921

Suzanne M Riggs 1651 Dixie Line Road Elkton MD 21921

Neville A Boston PO Box 33 Hannibal OH 43931

Nancy R Boston 63 Kindsfather Drive Livingston MT 59047

Holmes and Vada J. Lemon 1295 South Spring Street Harrisville WV 26362

William R Stalnaker 160 Stalnaker Estate Glenville WV 26351

Reginald L Roberts 2871 WV Hwy 5 W Glenville WV 26351

Dixie Lee Meyer 26067 Twin Rivers Drive Shell Knob MO 65747 4708510235

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WV Departme 09/04/2015 Environmental Protection Adrian Cowgill Rt 1 Box 15 Friendly WV 26146

Gerald Cowgill 50 Thorn Ridge Road √ Friendly WV 26146

Janet Deaton
50 Thorn Ridge Road /
Friendly WV 26146

Martha Ezratty 6236 Cherie Lynn Drive Inglewood OH 45415

Melinda Debner C/o David Bowyer 12088 Middle Island Rd. Alma WV 26320

Steve K Mix 800 County Road 4120 / Meridan TX 76665

R.R. Cottrill Loving Trust 6505 W. Brady Place Tulas OK 74136

Robin Huffman 46245 Buckio Road Woodsfield OH 43793

Linda Zamora 328 Darrell Road Roanoke TX 76262

James I Mix 3374 Gonzaga Place Santa Clara CA 95051

Debra Rolling 3409 Jamestown Road Flower Mound TX 75028

S. A. Smith & C. B. Morris Trust Union National Bank TTEE 1 PO Box 659 Wichita Falls TX 76307-0659 4708510235

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WV Department of Environmental Protection 09/04/2015 Michael K Mix 1514 N. Valley Pkway Lewisville TX 75077

Will E. Morris
Union National Bank TTEE
I.C.G.
PO Box 659
Wichita Falls TX 76304-0659

Haught Family Trust Ira Haught TTEE 210 E Main Street Harrisville WV 26362

John W Kerns Trust Union National Bank TTEE I.C.G. PO Box 659 Witchita Falls TX 76307-0659

Jean L Mix c/o Local Excavating 1865 C.R. 168 Dundee, OH 44624

Daniel P George 1018 Reigel School Road Rimersburg PA 16248

Howard Lee Swiger PO Box 402 Salem WV 26426

Lisa Holzhauer 23 Blackburn Road Quarryville PA 17566

Nancy J Stelle 2655 Monterery Road Rimersburg PA 16248

Donna Nell Boston 2685 Summit Street Columbus OH 43202

Additional Water Purveyors:

Jimmie R. Trent, Jr and Sandra S. Trent 3630 Brushy Fork West Union WV 26456 4708510235

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JUL 2 4 2015

09/04/2015

WV Department of

Environmental Processor

WW-6A	
(9-13)	

API NO.	47	•	085	
OPERATO	R WEL	L NO.		512426
Well Pad	Nam	e:		OXF122

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

	tice shall be provided no later than th $23 - 15$ Date Permit Applic		7 72 15		
Notice of:				£>0	
PERMIT FOR ANY WELL WORK Delivery method pursuant to	CERTIFICATE OF CONSTRUCTION o West Virginia Code § 22-6A-10(b	OF AN IMPOUND	THE MENT OR PIT	\$70851023	
PERSONAL SERVICE	REGISTERED MAIL	☑ METHOD OF	DELIVERY THAT REQUIRES A SIGNATURE CONFIRMATION	53	5
for the construction of an requires a receipt or sign plat to each of the follow the surface tract or tracts disturbance as described lessee, in the event the traceord of the surface traceonstruction, enlargement water purveyor who is known the is used to provide work activity is to take particle one, chapter eleverances the lien holder is the surface owner and an article owner and article owner article owner article owner article owner article owner and article owner arti	in impoundment or pit as requirature confirmation, copies of the ving persons: (1) The owners of coverlying the oil and gas least in the erosion and sediment contact of land on which the well pet or tracts overlying the oil and it, alteration, repair, removal of mown to the applicant to have a water for consumption by hundlace. (c)(1) If more than three in the may serve the documents required of this code. (2) Notwithstathe landowner. W. Va. Code Representations of the surface of t	ed by this article application, to frecord of the solution of	the application, the applicant for shall deliver, by personal servence the erosion and sediment controlled to the erosion and sediment controlled to the proposed well we delived by the proposed well we delived by the proposed for any impoundment or pit as designed to the erosion of the controlled in the records described in the records describe	rice or by registered mail of plan required by section well is or is proposed to bork, if the surface tract is to be underlain by one or red well work, if the surface to be underlain by one or red well work, if the surface described in section nine of the different within one thousand fir of any natural gas storage ests described in subsection of the sheriff required to brary, notice to a lien holder r shall also provide the Weided in section 15 of this red	r by any seven of be located; b be used cle; (3) The more coal tract is to this ve field in (b) of be is not cell Site
✓ Application Notice ✓ SURFACE OWNER Name: Address:	(s) Richard L. & Sheryl A. 1 757 Summersville Lake R Mount Nebo WV 26	Ray Name:	COAL OWNER OR LESSEE	Haught Family Trust 210 E Main Street Harrisville WV 26362	V
Name: Address:		Name:	COAL OPERATOR	or additional coal owners.	
Name:	S(s) (Road and/or Other Distu Richard L. & Sheryl A. I 757 Summersville Lake R Mount Nebo WV 260 EQT Production Comp	bad S 079 AND/O Name: nny Address	URFACE OWNER OF WATE R WATER PURVEYOR(s)	Ruby Adams RT, 1 Box 143-A	
✓ SURFACE OWNER	625 Liberty Avenue Suite 1 Pittsburgh PA 152 ditional road/ disturbance own (s) (Impoundments/Pits) Richard L. & Sheryl A. 1	ers. \Box 0	PERATOR OF ANY NATURAL	West Union WV 26456 ditional water purveyors.	ED
Address:	Richard L. & Sheryl A. I 757 Summersville Lake Ro Mount Nebo WV 260		attach additional forms if nece	JUL 2 4	
		riease	attach additional forms if fiece	Soul Y	

WV Department of Environment of 272015

WW-6A	
(8-13)	

API NO. <u>47</u> - <u>085</u>	5
OPERATOR WELL NO.	512426
Well Pad Name:	OXF122

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 nonzontally 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 to the well location restrictions regarding to the well location restriction restriction restrictions regarding to the well location restriction restric structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occasion and Gas structures are inadequate or otherwise require alteration to address the items

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WW-6A (8-13) API NO. 47 - 085 - 512426
Well Pad Name: OXF122

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. 4708510235

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

RECEIVED
Office of Oil and Gas

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified by water.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WV Department of Environmental Profession

WW-6A (8-13) API NO. 47 - 085
OPERATOR WELL NO. 512426

Well Pad Name: OXF122

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 driven confinents 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 it is used or 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.

RECEIVED
Office of Oil and Gas

JUL 2 4 2015

WV Department of Environmental 9/1047/2015

Notice is hereby giv	en by:		
Well Operator:	EQT Production Company	Address:	115 Professional Place P.O. Box 280
Telephone:	304-848-0082		Bridgeport, WV 26330
Email:	Vroark@eqt.com	Facsimile:	304-848-0041

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.

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, 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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. HEATER
EQT PRODUCTION COMPANY
PO BOX 280
BRIDGEPORT, WV 26330
My commission expires April 07, 2020

By: Victoria Roark Its: Permitting Supervisor

Subscribed and sworn before n 22 day of JUN

Notary Public

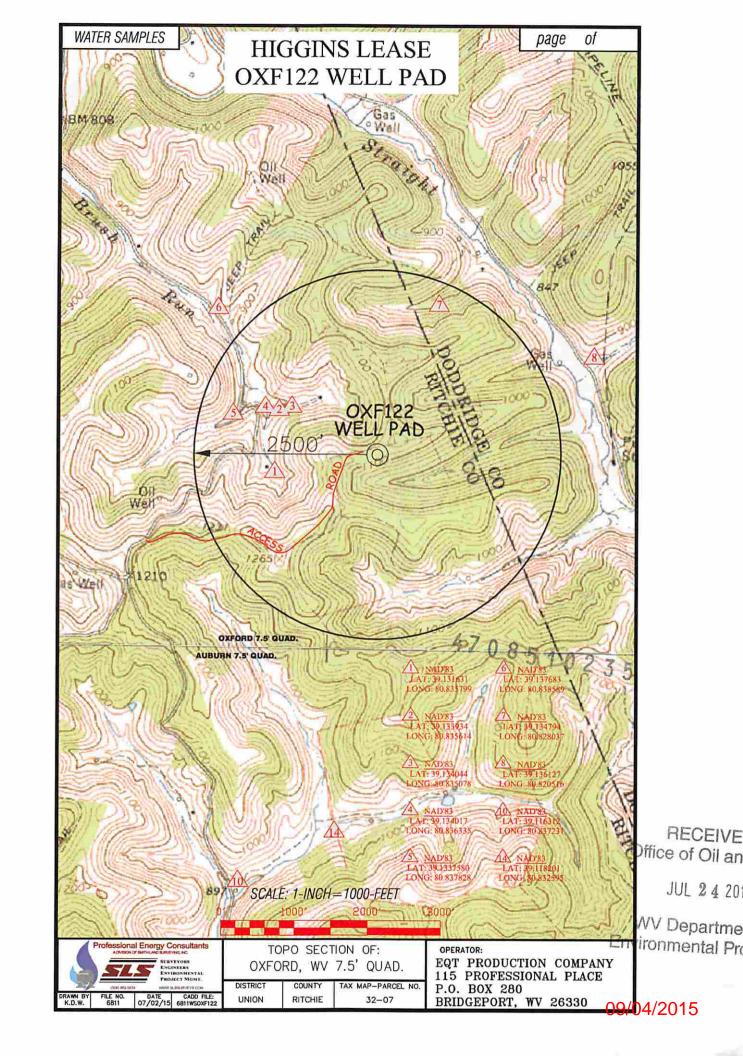
My Commission Expir

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RECEIVED
Office of Oil and Gas

JUL 2 4 2015

WV Department of Environmental Protection 69/04/2015



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

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Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Notice is hereby provided to the SURFACE OWNER(s): Name: Kenneth P. Adams	
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Address: RR 1 Box 143A	′
Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: WV UTM NAD 83 Fasting County: Ritchie District: Union Public Road Access: Quadrangle: Quadrangle: Vatershed: Straight Fork This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available,	
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Watershed: Straight Fork This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available,	
This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available,	zici yi zi toy
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	
Notice is hereby given by:	
	Victoria Roark
Address: 115 Professional Place, P.O Box 280 Address: 115 Professional Place	
Section 1985 Section 1985	port, WV 26330
	304-848-0076 grk@eqticom
201.010.0011	304-848-0041
Facsimile:	SHI SAL DOAN
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 WV Delignory information. If you have any questions about our use or your personal information, please points of Delignory.	. e

appropriately secure your personal information. If you have any questions about our use or your personal information, please with the property of the property

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time R	equirement: Notice shall be provided at least TEN (1	.0) days prior to fili	ng a permit application.	
Date of Notice	: 6/30/2015 Date Permit A	pplication Filed:	7/10/1	5
Delivery meth	od pursuant to West Virginia Code § 22-6A-16(b)			
□ HAND □ DELIVER	CERTIFIED MAIL RETURN RECEIPT REQUESTED	JRN D		
receipt reques drilling a horize of this subsect subsection ma	. Va. Code § 22-6A-16(b), at least ten days prior to fil ted or hand delivery, give the surface owner notice of ontal well: Provided, That notice given pursuant to so ion as of the date the notice was provided to the sur y be waived in writing by the surface owner. The not e, facsimile number and electronic mail address of the	of its intent to ente ubsection (a), secti face owner: Provid tice, if required, sh	er upon the surface owner ion ten of this article sati ded, however, That the n all include the name, add	er's land for the purpose of slies the requirements otice requirements of this dress, telephone number,
Notice is herel	by provided to the SURFACE OWNER(s):	/		· ·
Name:	Richard L. & Sheryl A. Ray	Name:		EQT Production Company
Address:	757 Summersville Lake Road	Address:	6	25 Liberty Avenue Suite 1700
	Mount Nebo WV 26679			Pittsburgh PA 15222
State:	vner's land for the purpose of drilling a horizontal we WV Ritchie	UTM NAI	D 83 Easting	514,609.07
County:	Union		Northing	4,331,473.86 7/18
District: Quadrangle:	Oxford	Gor	Public Road Access: perally used farm name:	Richard L & Sheryl A Ray
Watershed:	Straight Fork	Gel	lerally used farm flame.	Nichard L & Sheryi A Nay
facsimile numl related to hori	all Include: lest Virginia Code § 22-6A-16(b), this notice shall includer and electronic mail address of the operator and electronic may be obtained from the Secretary, a 57th Street, SE, Charleston, WV 25304 (304-926-04	the operator's autl at the WV Departn	norized representative. A nent of Environmental Pr	dditional information otection headquarters,
Notice is here	by given by:			
Well Operator:	EQT Production Company	Authorized Rep	oresentative:	Victoria Roar
Address:	115 Professional Place, P.O Box 280	Address:	-	115 Professional Place, P.O Box 28
<i>a</i>	Bridgeport, WV 26330	· ·		Bridgeport, WV 2633
Telephone:	304-848-0076	Telephone:	-	304-848-007
Email:	vroark@eqt.com	Email:		Office of Ol864-848-004
Facsimile:	304-848-0041	Facsimile:		Oπice 01 01804-848-004
Oil and Gas Pr	ivacy Notice: Dil and Gas processes your personal information, suc	h as name, addres	s and telephone number	JUL 2 4 2015

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business of Department of 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.

WW-6A4W	
(1/12)	

Operator Well No.	512426
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL WAIVER

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Surface Owne	r Waiver:				
l,	, hereby state that I ha	ave read	the notice	provisions liste	ed above and hereby waive the
notice require	ements under West Virginia Code § 22-6	6A-16(b) for the trac	ct of land as fo	llows:
State:	WV			Easting:	514,609.07
County:	Ritchie	UTM	NAD 83	Northing:	4,331,473.86
District:	Union	Publi	c Road Acc	ess:	7/18
Quadrangle:	Oxford	Gene	erally used f	arm name:	Richard L & Sheryl A Ray
Watershed:	Straight Fork				
Name:	EQT Production Com	npany	Signature	e: <	M
Address:	625 Liberty Ave Suit	1700	05:	-	
-	Pittshurgh PA	15222	Date:	-	

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas

JUL 2 4 2015

WV Department of Environ 09/04/2015

WW-6A5
(1/12)

Operator W	eII	NO.
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512426

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

Date of Notice	2: <u>7-23-15</u> D	ate Permit App		7-23-15	
Delivery meth	od pursuant to West Virginia Code § 22-6A	-16(c)			
	IFIED MAIL HAN RN RECEIPT REQUESTED DEL	ID IVERY			
return receipt re the planned ope required to be p drilling of a hori damages to the (d) The notices re of notice.	Va. Code § 22-6A-16(c), no later than the date for equested or hand delivery, give the surface owne eration. The notice required by this subsection shorovided by subsection (b), section ten of this articontal well; and (3) A proposed surface use and consurface affected by oil and gas operations to the required by this section shall be given to the surface.	r whose land will all include: (1) A collete to a surface ow ompensation agreement the damagement in the damagement that the d	oe used for the drilli opy of this code sec oner whose land wil ement containing a es are compensable	ing of a horizontal well notice of tion; (2) The information I be used in conjunction with the offer of compensation for this chapter.	
	y provided to the SURFACE OWNER(s)			< 3 5	
(at the address I Name:	isted in the records of the sheriff at the time of n	The state of the s			
Address:	Kenneth P. / RR1 Box	TO 100		Jimmie R Trent, Jr. and Sandra S Trent	,
	West Union WV	E PER CONTRACTOR OF THE PER CONTRACTOR OF TH	55.	3630 Brushy Fork West Union WV 26456	
	st Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling www.				
County:	Ritchie		Northing:	4,331,473.860000	
District:	Union	Public Road Acc	ess:	7/18	
Quadrangle:	Oxford 7.5'	Generally used	farm name:	Richard L & Sheryl A Ray	
Watershed:	Straight Fork				
to be provided b horizontal well; surface affected information rela	st Virginia Code § 22-6A-16(c), this notice shall inc by W. Va. Code § 22-6A-10(b) to a surface owner of and (3) A proposed surface use and compensation by oil and gas operations to the extent the dama ted to horizontal drilling may be obtained from the coated at 601 57th Street, SE, Charleston, WV 253	whose land will be a agreement cont ges are compensa ne Secretary, at th	e used in conjunction aining an offer of co ble under article six e WV Department o	n with the drilling of a empensation for damages to the c-b of this chapter. Additional of Environmental Protection	
Well Operator:	EQT Production Company	Address:	115 Professional I	Place, P.O. Box 280	
Telephone:	304-848-0082	 Bridgeport, 	The state of the s	18CC, 1.O. BOX 280	_
Email:	vroark@eqt.com	Facsimile:	304-848-0040		_
					_
Oil and Gas Priv	acy 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 RECEIVED appropriately secure your personal information. If you have any questions about our use or your personal information, prescribed and Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

JUL 2 4 2015

WW-6A5
(1/12)

Operator Well No	Opera	tor	Well	No
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512426

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

	NOTICE OF	- PLANNED O	PERATIO	N	
Notice Time I Date of Notic	Requirement: notice shall be provided no			**************************************	
Date of Notic	e: <u>1-23-15</u>	Date Permi	t Applicati	on Filed:	7-23-15
Delivery met	nod pursuant to West Virginia Code § 22	-6A-16(c)			
☑ CERT	TFIED MAIL	HAND			27
	IRN RECEIPT REQUESTED C	DELIVERY			
return receipt return receipt return receipt returned to be drilling of a hordamages to the (d) The notices of notice. Notice is hereb	Va. Code § 22-6A-16(c), no later than the date equested or hand delivery, give the surface of eration. The notice required by this subsection provided by subsection (b), section ten of this izontal well; and (3) A proposed surface use a surface affected by oil and gas operations to required by this section shall be given to the supposed to the SURFACE OWNER(s) listed in the records of the sheriff at the time	wner whose lan n shall include: (article to a surf- nd compensation the extent the compensation surface owner and	d will be use (1) A copy o ace owner v n agreemer damages are	ed for the drilli f this code sect whose land will nt containing a e compensable	ng of a horizontal well notice of tion; (2) The information be used in conjunction with the noffer of compensation for under article six-b of this chapter. records of the sheriff at the time
Address:	757 Summersville		Address:		EQT Production Company
	Mount Nebo		Address.		625 Liberty Ave Suit 1700 Pittsburgh PA 15222
operation on th	y given: st Virginia Code § 22-6A-16(c), notice is hereb e surface owner's land for the purpose of dril				
State:	W	_	83	Easting:	514,609.070000
County:	Ritch	_		Northing:	4,331,473.860000
District:	Unio		ad Access:	_	7/18
Quadrangle:	Oxford 7.	5' Generally	used farm	name:	Richard L & Sheryl A Ray
Watershed:	Straight Fork				
to be provided	Il Include: st Virginia Code § 22-6A-16(c), this notice sha by W. Va. Code § 22-6A-10(b) to a surface ow and (3) A proposed surface use and company	ner whose land	will be used	l in conjunction	n with the drilling of a

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:	EQT Production Company	Address:	115 Professional Place, P.O. Box 280	
Telephone:	304-848-0082	Bridgeport,	WV 26330	
Email:	vroark@eqt.com	Facsimile:	304-848-0040	

Oil and Gas Privacy Notice:

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JUL 2 4 2015



WW-6AW	
(1-12)	

API NO. 47 -	085	-	
OPERATOR WELL	NO.	-):	512426
Well Pad Name:			OXF122

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

provisions listed ab	ove, and that I have received copies	eby state that I have read the Instructions to s of a Notice of Application, an Application	Persons Named on Page WW-6A and the association a Well Work Pormit on Form
WW-6A and attach	ments consisting of pages one (1) t ell plat, all for proposed well work o	hrough	, including the erosion and sediment control plan
State:	WV	UTM NAD 83 Easting:	514,609.07
County:	Ritchie	UTM NAD 83 Northing:	4,331,473.86
District:	Union	Public Road Access:	7/18
Quadrangle:	Oxford 7.5'	Generally used farm name:	Richard L & Sheryl A Ray
Watershed: Stra	aight Fork		Filonard E & Sheryl A hay

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies SURFACE OWNER SURFACE OWNER (Road and/or Other Disturbance) SURFACE OWNER (IMPOUNDMENTS/PITS) COAL OWNER OR LESSEE COAL OPERATOR WATER PURVEYOR OPERATOR OF ANY NATURAL GAS STORAGE FIELD	FOR EXECUTION BY A NATURAL PERSON Signature: Print Name: Date: FOR EXECUTION BY A CORPORATION, ETC. Company: By: Dan Danato Its: Regional Land Director Signature: Date: 7-21-15 PECEIVED
Oil and Gas Privacy Notice:	Office of Oil and Gas

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. 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 depprivacyoffice will gove part ment of

Environmental



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Earl Ray Tomblin Governor

June 30, 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 OXF 122 Pad Site, Ritchie County

512426 OXF122H1 512428 OXF122H3 512500 OXF122H4 514081 OXF122H7 514083 OXF122H9 514084 OXF122H10

Dear Dr. Martin,

This well site will be accessed from Permit # 03-2014-0058 issued to EOT Production Company for access to the State Road. The well site is located off of Ritchie County Route 7/18 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. 12. 4708510235

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-3, File

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WV Department of Environmentag/1049

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	CAS Number
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
Friction Reducer	Tributyl tetradecyl phosphonium chloride	64742-47-8
Biocide	Ammonium chloride	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7

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WV Department of Environmental Ph/4/2015n

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IMP-1A



Office of Oil and Gas

West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

DEP Office Use only	
Date Received by Oil & Gas	
Assigned Impoundment ID#085-WPA-00	320

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbts, that are associated with a WVDEP. Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

Section 1 - Operator Information

Operator Name.	EQT Production Company In	ıc		
Operator ID:	306686			
Address Street	115 Professional Place			
City	Bridgeport	State WV	Zip 26330	
Contact Name	Vicki Roark	Contact Title.	Permitting Supervisor	
Contact Phone	(304) 848-0076	Contact Email	VRoark@eqt.com	

Section 2 - Engineering / Design Contractor Information

Design will be contracted					
Company Name:	Smith Land Survey	ing, Inc. & Nav	tus Engin	eering.	, Inc.
Address, Street	12 Vanhorn Drive.	PO Box 150			
City.	Glenville		State	WV	Zip 26351
Contact Name:	Wes Wayne		Contact	Title	Stall Engineer/Project Manager
Contact Phone	(304) 462-5634		Contact I	Email:	wwwayne@slssurveys.com
Certifying Professional I	Engineer Cyrus B	Kump			
Professional Engineer F	Registration Number	WV PE No 19	1578		
				·· ·	

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WV Department of Environmental Protection 09/04/2015

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Office of Oil, and Gas

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r		• •					-	-	•	-							••		

Type of Structure Check one of two choices below
☐ Freshwater Impoundment ⊠ Waste Pit
Note: Any waste in a pit will make it a waste pit
Name of Structure (Company Name) OXF 122 Associated Pit
County Ritchia County District Umon
USGS 7.5' Quad Map Name Oxford
Farm Name N/A
Pad Name. OXF 122 Well Pad
Surface Owner Name. Richard L & Sheryl A Ray
Physical Description of Location. The OXF 122 Site is on a ridge east of Co. Rt. 7-18. The entrance to the site is approximately 675 ft. northeast of the Co. Rt. 7/18 and Co. Rt. 7/18 intersection.
filote. Give general location, example, 2 miles coefficial Smallfown, VM on Rt. 22, left on Botfalo Creek)
Watershed (nearest perennial) Straight Fork
Distance (Drainage Distance) to nearest perennial stream 2 200 Feet
Location Coordinates (NAD83 Decimal Degrees (xx xxxxxx xxxx))
Latitude 39 129700 Longitude (Use negative sign) -80 829101
UTM Coordinates 514,771.4 E 4,331.183.6 N
Access Road Coordinates (junction of state highway access)
Latitude 39 128987 Longitude (Use negative sign) -80 841969
UTM Coordinates 513,659.3 E 4,331,102.5 N
Approximate Dimensions Length 408 FT Width 263 FT Height 19 FT
Length 408 FT Width 263 FT Height 19 FT Note throughout shaped give as procurate denergions of ten pares.
Total Capacity – Provide all units of measure below
Barrels 132 763 Gallons 5 576 054 0 Acre-Feet 17 112
Danets 192 199 Galabis 2.999 00.19 Actig-reed 19712
Capacity with 2' Freeboad – Provide all units of measure below
Barrels 110,569 Gallons 4,643,903 9 Acre-Feet 14 251
Incised volume
Barrels 24,787 Gallons 1,041,036 6 Acre-Feel 3 194
Net impounded volume. (Total volume less incised volume.)
Barrels 107,976 Gallons 4.535,017.4 Acre-Feet 13.918
Anticipated Construction Start Date (estimation, non-binding). As Soon As Fossible
Note: No construction may begin on Associoated impoundment until WVDEP issues the drilling permit. At least 7 calendar days prior to confirmed construction start date, notify the Office of Oil & Gas, and the local Oil and Gas.
calendar days prior to committee constituction start date, now, the office of one days and the local off and das

Page 2 of 4

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Office of Oil and Gas

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WV Department of Environmental Protection 09/04/2015

IMP-1A GOOD Office of Oil and Gas

Section 4 - Associated Well Numbers and API Numbers. List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

WV 512426 WV 512427 Not Issued Not Issued WV 512428 Not Issued Section 5 - Required Information Checklist To Register Permit Associated	To Register Permit Associated information and plans with application.	Well Number(s):	API Number(s) – If issued
WV 512428 WV 512429 WV 512500 Not Issued WV 512501 Not Issued WW 512501 Not Issued	To Register Permit Associated information and plans with application.	WV 512426	Not Issued
AV 512429 Not Issued AV 512500 Not Issued AV 512501 Not Issued AV 512502 Not Issued	To Register Permit Associated information and plans with application.	W 512427	Not issued
W 512500 Not Issued W 512501 Not Issued Wat Issued	To Register Permit Associated Information and plans with application. Information and Plans with application. Information and Plans with application.	W 512428	Not Issued
W 512501 Not Issued William	To Register Permit Associated Information and plans with application. Information are plans with application. Information and plans with application.	VV 512429	Not Issued
A Control Cont	nformation and plans with application. egistered P E V Registered P E	W 512500	Not Issued
.	nformation and plans with application. egistered P E V Registered P E	NV 512501	Not Issued
Section 5 - Required Information Checklist To Register Permit Associated	nformation and plans with application. egistered P E V Registered P E	withing withing	5,
Impoundments or Pits. Include the following information and plans with application Engineered Construction Plans, certified by WV Registered P E Erosion and Sediment Control Plan certified by WV Registered P E Reclamation Plan certified by WV Registered P E		Impoundments or Pits. Inc Engineered Construction P Erosion and Sediment Con	ude the following information and plans with application. ins, certified by WV Registered P E of Plan certified by WV Registered P E

•	The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be
	defined as a dam, under W Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam
	all permits regulating dams will be required prior to registering the structure with the Office of Oit and Gas.
	The dam standard, from the WVDEP. Div. Of Water and Waste, is available for review at
	http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx

Section 7 - Comments - Provide any additional comments concerning this project

Page 3 of 4 RECEIVED Office of Oll and Gas

JUL 24 2015

WV Department of Environmental Protection 09/04/2015



Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

Name Signature Taken, subscribed and sworp to before me this, Notary Public \$708570235 8-24-92 My commission expires Notary Seal OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLEC
Pamela Sykes Section 9. Submittal Instructions

Submit original paper copy of application to

West Virginia Department of Environmental Protection Office of Oil and Gas

Impoundment Registration 601 57th Street, SE Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to Depimpoundments@wv gav

> Page 4 of 4 RECEIVED Office of Oil and Gas

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Wil Department of Environmental Protection

