

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Earl Ray Tomblin , Governor Randy C. Huffman , Cabinet Secretary www.dep.wv.gov

Tuesday, August 30, 2016 WELL WORK PERMIT Horizontal 6A / Horizontal 6A Well - 1

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re:

Permit approval for 516238

47-017-06746-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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) 926-0450.

Operator's Well Number: 516238

Farm Name: WETZEL, CATHY

U.S. WELL NUMBER: 47-017-06746-00-00

Horizontal 6A / Horizontal 6A Well - 1

Chief

Date Issued: 8/30/2016

Promoting a healthy environment.

API Number: 17-06744

PERMIT CONDITIONS

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

CONDITIONS

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

API NO. 47-017	_ 06746
OPERATOR V	VELL NO. 516238
Well Pad Na	me: OXF43

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

1) Well Operator: EQT Produ	uction Company	306686	Doddridge	SouthWest/ Cove	Oxford
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 51	16238	Well Pa	ad Name: OXF	43	
3) Farm Name/Surface Owner:	Cathy Wetzel	Public Ro	oad Access: Rt	20	
4) Elevation, current ground:	1254' El	evation, proposed	d post-construct	ion: 1229'	
5) Well Type (a) Gas X	Oil	Une	derground Stora	ge	
Other					
(b)If Gas Sha	allow X	Deep		5	DW 3/30/2016
Но	rizontal X			0	AF
6) Existing Pad: Yes or No No				3	
 Proposed Target Formation(s Marcellus, 6666' TVD, 57', 298 	[10] [10] [10] [10] [10] [10] [10] [10]		and Expected P	ressure(s):	
8) Proposed Total Vertical Dept	th: 6666'				
9) Formation at Total Vertical I	Depth: Marcellus				
10) Proposed Total Measured D	Depth: 14663				
11) Proposed Horizontal Leg Le	ength: 6431				
12) Approximate Fresh Water S	trata Depths:	70, 221, 307, 3	82		
13) Method to Determine Fresh	Water Depths: E	By offset wells			
14) Approximate Saltwater Dep	ths: None found				
15) Approximate Coal Seam De	epths: 321				
16) Approximate Depth to Poss	ible Void (coal mi	ne, karst, other):	None		
17) Does Proposed well location directly overlying or adjacent to		ns Yes	No	x	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:			Off	ice of Oil and Ga

APR 0.1 2016

WV Department of Protection 09/02/2016

WW-6B	
(04/15)	

API NO. 47- 017 - 06746

OPERATOR WELL NO. 516238
Well Pad Name: OXF43

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	532	532	487 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2426	2426	960 ft^3 / CTS
Production	5 1/2	New	P-110	20	14663	14663	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination.	
Liners						The state of the s	

SDW 3/30/2016

ТҮРЕ	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	26	.375	1378	1102	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							0.00
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class H	1.07/1.86
Tubing	2 3/8	NA	.19	7700			1 20 7 11 42 6 1
Liners							

PACKERS

Kind:	n/a	
Sizes:	n/a	
Depths Set:	n/a	

RECEIVED
Office of Oil and Gas

APR 0 1 2016

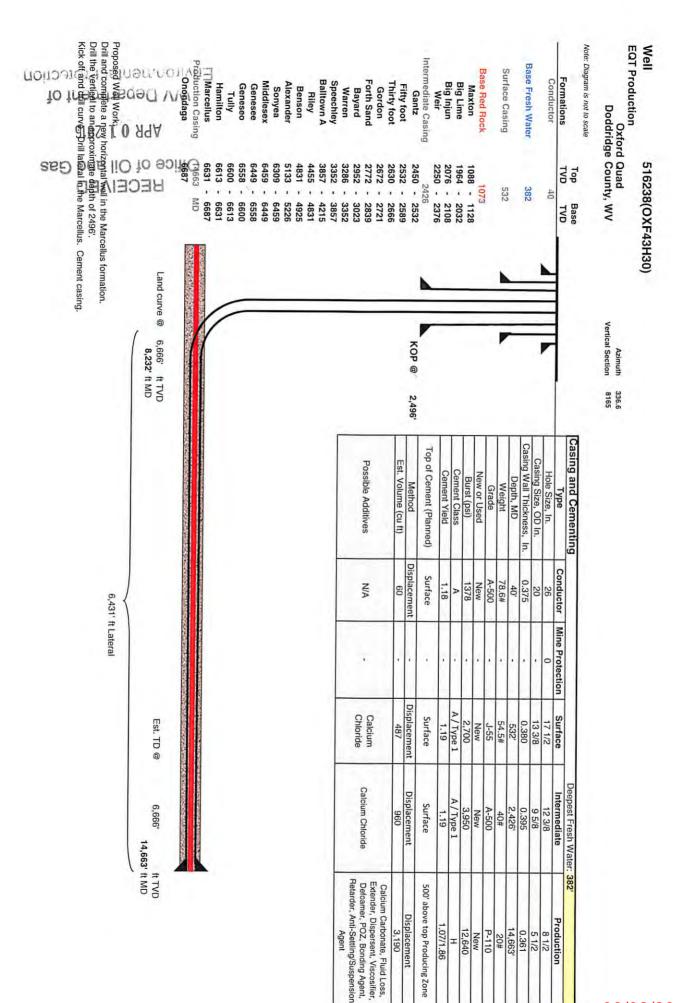
WV Department of Environment of 2/2016

WW - 6B	APINO. 47 - 017 - 06746
(10/14)	OPERATOR WELL NO. 516238
	Well Pad Name: OXF43
19) Describe proposed well work, including the drilling and plugging back of any pilot h	nole:
Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an	approximate depth of 4008 then kick
off the horizontal leg into the Marcellus using a slick water frac.	
20) Describe fracturing/stimulating methods in detail, including anticipated max pressu	
Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (in	
gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slick	
anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipated tr approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels	
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):	86.46
22) Area to be disturbed for well pad only, less access road (acres):	40.47
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 5 	500'
Production: One spaced every 1000' from KOP to Int csg shoe	
24) Describe all cement additives associated with each cement type. Surface (Ty	<u>/pe 1 Cement)</u> : 0-3% Calcium Chloride
Used to speed the setting of cement slurries.	pe 1 cementy. 0-5% calcium chionide
0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a	
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature for slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling.	
to a thief zone.	grade of comont starry (not initiate)
Production:	
Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.	
0.3% CFR (dispersant). Makes cement easier to mix.	
<u>Tail (Type H Cement)</u> : 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.	
0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.	
60 % Calcuim Carbonate. Acid solubility.	
0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.	
25) Proposed borehole conditioning procedures. <u>Surface</u> : Circulate hole clean (Approximate	tely 30-45 minutes) rotating & reciprocating
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, con	tinue to circulate an additional 5
minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, b	ring compressors back on
and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicate	es washouts that will not clean up.
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full join	nt until cuttings diminish at
surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minu	utes. If foam drilling, to enhance
hole cleaning use a soap sweep or increase injection rate & foam concentration.	
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge h	noles bottoms up volume.

Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across

the shakers every 15 minutes.

^{*}Note: Attach additional sheets as needed.



Well Schematic **EQT Production**

Well Name 516238(OXF43H30) Elevation KB: County State Doddridge West Virgina Target
Prospect
Azimuth
Vertical Section Marcellus 0' 7 Hole Size 24" - 20" Conductor at 40" 382' Fresh Water Base TOC @ Surface 500' -- 500' 13 3/8*, MC-50, 54.5# @ Bit Size 12.375* 1,000' - 1,073' Base Red Rock - 1,000' 1,088' Maxton 1,500' -- 1,500' ${\rm 2,000'} - {\rm \frac{1,964'}{2,076'}} \, {\rm Big} \, {\rm Lime}$ - 2,000' 2,250' Weir 2,500' - 2,450' -Gantz - 2,500 2,532' -Fifty foot 2,630' -Thirty foot 2,672' -Gordon 2,772' -Forth Sand 3,000' - 2,952' -Bayard - 3,000 3,286' -Warren 3,352' -Speechley 3,500' -- 3,500 3,857' -Balltown A 4,000' -- 4,000 4,500' - 4,455' -Riley KOP = 4,008' ft MD - 4,500' 10 Deg DLS 4,831' -Benson 5,000' -- 5,000 TOC @ Surface 5,133' -Alexander 5,276' Int, csg pt 9 5/8", MC-50, 40# @ 5,276' ft MD Bit Size 8.5" 5,500' -- 5,500 6,000' — 6,309' -Sonyea 6,459' -Middlesex - 6.000 6,449' -Genesee 6,558' -Geneseo 9,503' ft MD 6,500' — 6,600' -Tully 6,613' -Hamilton 6,631' -Marcellus 6,666' ft TVD - 6,500 5 1/2", P-110, 20# 13,995' ft MD 6,687' Onondaga 7,000' -- 7.000 7,500' — **-** 7,500° B,000' -

- B,000°

API Number 47	_ 017	
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Operator's Well No. 516238

- 06746

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 (HUC 10) Middle Fork Hughes River	Quadrangle Oxford
Do you anticipate using more than 5,000 bbls of water to comp	olete the proposed well work? Yes V No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: n/a	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? n/a
Proposed Disposal Method For Treated Pit Wastes:	No
Land Application	
Underground Injection (UIC Permi	t Number_ 0014, 8462, 4037)
Reuse (at API Number Various Off Site Disposal (Supply form WV	V. 0 for disposal location)
Other (Explain_	v-9 for disposal location)
Yes, The closed Will closed loop system be used? If so, describe:	loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then sportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and horizont	al)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, etc. Sy	ynthetic Mud
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be	used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? See Attached	List
Permittee shall provide written notice to the Office of Oil and O West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Vi provisions of the permit are enforceable by law. Violations o law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, base	conditions of the GENERAL WATER POLLUTION PERMIT issued irginia Department of Environmental Protection. I understand that the f any term or condition of the general permit and/or other applicable are examined and am familiar with the information submitted on this d on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant illity of fine or imprisonment.
Company Official (Typed Name) Victoria J. Roark	RECEIVED
Company Official Title Permitting Supervisor	Office of Oil and Gas
	APR 0.1 2016
Subscribed and sworn before me this 33 day of	Notary Public Pamela Syles Notary Public Pamela Syles EOT Production
My commission expires	PO Box 280 Bridgeport, WV 26330 My Commission Expires Aug. 24, 2022 09/02/2016

•	atment: Acres Disturbed +		ion pH 6.1
Lime 3	Tons/acre or to corre	ct to pH 6.5	
Fertilizer type _ G	Franular 10-20-20		
Fertilizer amount_	1/3	lbs/acre	
Mulch 2		_Tons/acre	
		Seed Mixtures	
Т	emporary	P	ermanent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
Drawing(s) of road, location provided)	n, pit and proposed area for lived 7.5' topographic sheet.	land application (unless engineered pla	ns including this info have be
Drawing(s) of road, location provided) Photocopied section of invo		land application (unless engineered pla	ns including this info have be
Drawing(s) of road, location provided) Photocopied section of invo	lved 7.5' topographic sheet.	5.	e Dward II
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Drawing(s) of road, location provided) Photocopied section of invo Plan Approved by: Comments: No cig is to are proceeded	lved 7.5' topographic sheet. The application and upon the bought the mulched as	or site until all per WUDEP requ	eduate ols as nucleo l disturbed crec lations
Photocopied section of invo	lved 7.5' topographic sheet. The application and upon the bought the mulched as	or site until cl	edwardTE Dis as nucleo I disturbed area /attons

WV Department of Environmental Processor

WW-9

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, intermediate, 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 oil based mud.

Additives to be used in drilling medium?

Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud – Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

RECEIVED
Office of Oil and Gas

APR 0 1 2016

MM Department of Environment at Hotection

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: OXF43

Doddridge County, WV

7/27/16

Office of Oil and Gas

JUL 28 2016

JUL 29 2016

Wale Left al Protection

En 08902/2016

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Doddridge County, WV prior to hydraulic fracturing at the following EQT wells on the OXF43 pad: 516228, 516229, 516230, 516231, 516232, 516233, 516234, 516235, 516238, 516240.

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 6,600' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,100' 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 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

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 included in **Attachment B**.

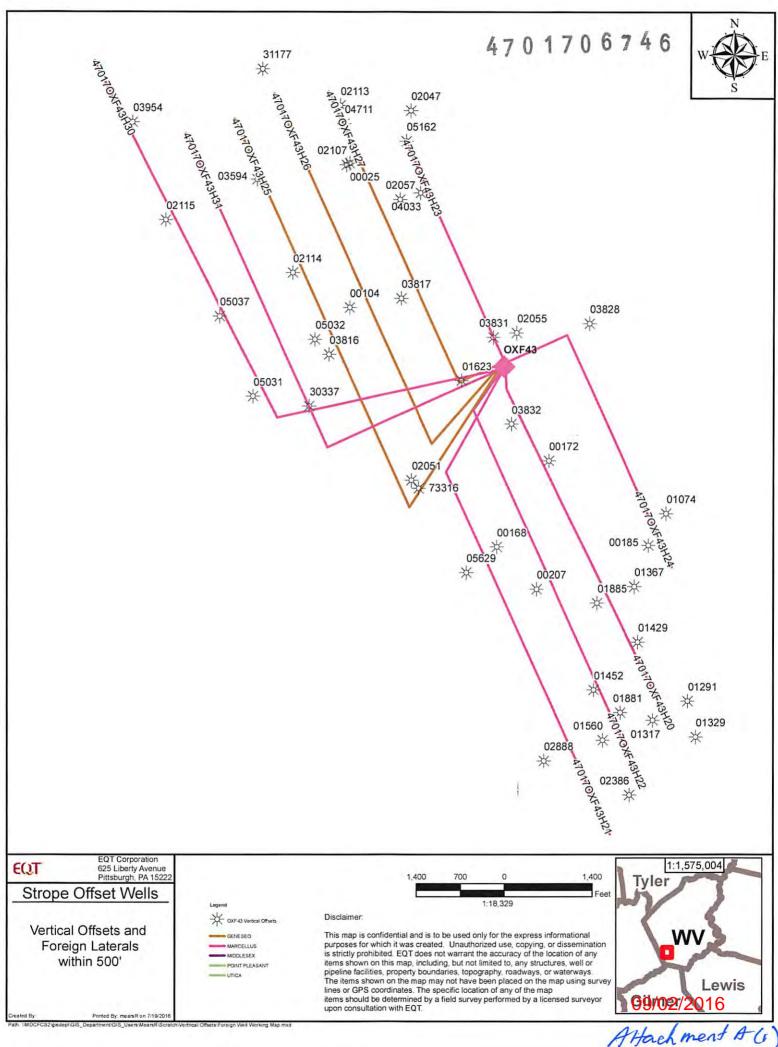
The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to EQT and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during 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.



	Well ID	Well Status	Comp Date	Permit	Operator	Longitude	Latitude Target	Datum Eleva	SS Depth	TD
9	4701700025		8/13/1930	00025	PGH & WV GAS	-80.8015	39.1659	1012.0000	-1490.0000	2502.0000
*	4701700104		9/21/1939	00104	EPC		39.1596	1095.0000	-1397.0000	2492.0000
	4701700168		10/15/1946		P & M OIL		39.1491	905.0000	-1416.0000	2321.0000
•	4701700172		12/7/1946	00172	P & M OIL		39.1529	955.0000	-1262.0000	2217.0000
9	4701700185		2/11/1919	00185	EPC		39.1492	1103.0000	-905.0000	2008.0000
0	4701700207		10/5/1954	00207	P & M OIL		39.1473	883.0000	-853.0000	1736.0000
_	4701701074		2/21/1964	01074	WILLIAMS OIL & GAS		39.1506	949.0000	-1510.0000	2459.0000
_	4701701291		9/3/1965	01291	PENNZOIL	-80.7825	39.1424	1027.0000	-994.0000	2021.0000
d-	4701701317		2/27/1919	01317	EPC	-80.7845	39.1416	1067.0000	-934.0000	2001.0000
0	4701701367		10/19/1966		EPC	-80.7855	39.1474	1071.0000	-959.0000	2030.0000
_	4701701429		3/31/1967	01429	EPC	-80.7853		883.0000	-933.0000	1816.0000
	4701701452	O&G	6/29/1967	01452	EPC	-80.7878	39.1429	1091.0000	-936.0000	2027.0000
4	4701701560		10/8/1969	01560	EPC	-80.7873	39.1407	1022.0000	-921.0000	1943.0000
	4701701623		8/8/1971	01623	WARREN DRILLING	-80.7952	39.1564	1226.0000	-1474.0000	2700.0000
	4701701881		5/27/1978	01881	EPC	-80.7863		918.0000	-975.0000	1893.0000
	4701701885	OIL	5/23/1978	01885	EPC	-80.7876	39.1467	863.0000	-1030.0000	1893.0000
	4701702047	GAS	5/23/1918	02047	EPC	-80.7981	39.1682	0.0000	-1907.0000	1907:0000
	4701702051	GAS	7/5/1918	02051	EPC	-80.7980	39.1521	±±≤0.0000	-1801.0000	1801.0000
	4701702055	GAS-P	1/1/1918	02055	EPC	-80.7921	39.1585	1097.0000	-542.0000	1639.0000
	4701702057	P&A	12/13/1918	02057	EQUITRANS	-80.7986	39.1643	985.0000	-530.0000	1515.0000
	4701702107	GAS	7/14/1930	02107	EPC	-80.8017	39.1658	1012.0000	-814.0000	1826.0000
	4701702113		5/5/1920	02113	EPC	-80.8020	39.1684	0.0000	-2485.0000	2485.0000
	4701702114	P&A	10/15/1920	02114	EPC	-80.8047	39.1611	0.0000	-2400.0000	2400.0000
	4701702115	GAS-P	10/14/1924	02115	EPC	-80.8118	39.1634	1180.0000	-722.0000	1902.0000
	4701702386	GAS	2/19/1914	02386	EPC	-80.7858	39.1383	1000.0000	-1604.0000	2604.0000
	4701703594	GAS	10/10/1987	03594	TERM ENERGY	-80.8067	39.1652	958.0000	-4073.0000	5031.0000
	4701703816	GAS	9/20/1990	03816	ECA	-80.8027	39.1576	1065.0000	-4170.0000	5235.0000
	4701703817	GAS	6/21/1990	03817	ECA	-80.7986	39.1600	1210.0000	-4110.0000	5320.0000
	4701703828	GAS	9/28/1990	03828	ECA	-80.7880	39.1589	920.0000	-4187.0000	5107.0000
	4701703831	GAS	9/18/1990	03831	ECA	-80.7934	39.1583	1250.0000	-4172.0000	5422.0000
	4701703832	GAS	9/20/1990	03832	ECA	-80.7924	39.1545	1092.0000	-4191.0000	5283.0000
	4701703954	GAS	6/30/1992	03954	TERM ENERGY	-80.8137	39.1677	895.0000	-4065.0000	4960.0000
	4701704033	GAS	9/15/1993	04033	TERM ENERGY	-80.7975	39.1646	970.0000	-4030.0000	5000.0000
	4701704711	GAS	1/20/2003	04711	KEY OIL	-80.8018	39.1676	1215.0000	-4126.0000	5341.0000
	4701705031	GAS	6/24/2004	05031	SPENCER ENTERPRISES	-80.8070	39.1557	0.0000	-2070.0000	
	4701705032	GAS	6/22/2004	05032	SPENCER ENTERPRISES	-80.8035	39.1582	0.0000	-2730.0000	
	4701705037	GAS	6/30/2004	05037	SPENCER ENTERPRISES	-80.8088		0.0000		1950.0000
	4701705162	GAS	6/28/2006	05162	KEY OIL		39.1668	1201.0000	-1554.0000	2755.0000
	4701705629	GAS	9/4/2008	05629	EPC		39.1480	866.0000	-5466.0000	6332.0000
	4701730337	GAS	6/24/1917	30337	PGH & WV GAS		39.1553	1084.0000	-874.0000	1958.0000
	4701731177	GAS	5/17/1919	31177	EPC	-80.8064	39.1700	1064.0000	-933.0000	1997.0000
	4701773316	UNK		73316	UNKNOWN		39.1517	0.0000	***************************************	
	4701701329	GAS	10/1/1965	01329	PENNZOIL COMPANY		39.1408		2170.0000	2170.0000
	4701702888	D&A	2/8/1981	02888	DORAN ASSOC	-80.7906	39.1398 BENSON		2250.0000	2250.0000

*All reported data reported is correct to the best our knowledge with the resources available.

PERFORATED FORMATION

NON-PERFORATED POTENTIAL FORMATION

UWI Name 47017050370000 BIG LIME 47017050370000 BIG INJUN

47017050370000 BIG INJUN 47017047110000 LITTLE LIME

47017047110000 EITTLE LIME

47017047110000 BIG INJUN

47017047110000 BIG HVJON 47017047110000 WEIR /SD/

47017047110000 BEREA

47017047110000 GORDON

47017047110000 WARREN /SD/

47017047110000 SPEECHLEY

47017047110000 BALLTOWN /SD/

47017047110000 RILEY /SD/

47017047110000 RILEY 3

47017047110000 BENSON /SD/

47017047110000 ELK /SD/

47017047110000 ALEXANDER

47017039540000 BIG LIME

47017039540000 BIG INJUN /SD/

47017039540000 WEIR /SD/

47017039540000 BEREA

47017039540000 GORDON /SD/

47017039540000 WARREN /SD/

47017039540000 SPEECHLEY

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47017039540000 LEOPOLD

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47017018810000 MAXTON

47017018810000 LITTLE LIME

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47017040330000 SPEECHLEY

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47017040330000 BRADFORD /SD/

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47017040330000 ALEXANDER 47017050310000 BIG LIME 47017050310000 BIG INJUN 47017038280000 LITTLE LIME 47017038280000 BIG LIME 47017038280000 BIG INJUN /SD/ 47017038280000 WEIR /SD/ 47017038280000 BEREA 47017038280000 WARREN /SD/ 47017038280000 RILEY /SD/ 47017038280000 BENSON /SD/ 47017038280000 ALEXANDER 47017021140000 COW RUN 2 /SD/ 47017021140000 SALT SD 2 47017021140000 SALT SD 3 47017021140000 MAXON/SD/ 47017021140000 BIG LIME 47017021140000 BIG INJUN 47017021140000 GANTZ /SD/ 47017021140000 GORDON STRAY /SD/ 47017021140000 GORDON /SD/ 47017038310000 LITTLE LIME 47017038310000 BIG LIME 47017038310000 BIG INJUN /SD/ 47017038310000 WEIR /SD/ 47017038310000 BEREA 47017038310000 WARREN /SD/ 47017038310000 RILEY /SD/ 47017038310000 BENSON /SD/ 47017038310000 ALEXANDER 47017038160000 BIG LIME 47017038160000 BIG INJUN /SD/ 47017038160000 WEIR /SD/ 47017038160000 BENSON /SD/ 47017038320000 BIG LIME 47017038320000 BIG INJUN /SD/ 47017038320000 WEIR /SD/ 47017038320000 BEREA 47017038320000 WARREN /SD/ 47017038320000 RILEY /SD/ 47017038320000 BENSON /SD/ 47017038320000 ALEXANDER 47017050320000 BIG LIME 47017050320000 BIG INJUN 47017050320000 GORDON 47017016230000 SALT SD 2 47017016230000 MAXTON 47017016230000 LITTLE LIME 47017016230000 BIG LIME 47017016230000 BIG INJUN /SD/ 47017016230000 GANTZ /SD/ 47017016230000 GORDON /SD/ 47017051620000 LITTLE LIME 47017051620000 BIG LIME

47017051620000 KEENER /SD/ 47017051620000 BIG INJUN /SD/ 47017051620000 WEIR /SD/ 47017051620000 BEREA 47017051620000 GORDON /SD/ 47017021130000 COW RUN 1 /SD/ 47017021130000 COW RUN 2 /SD/ 47017021130000 SALT SD 1 47017021130000 SALT SD 2 47017021130000 SALT SD 3 47017021130000 MAXON/SD/ 47017021130000 LITTLE LIME 47017021130000 PENCIL CAVE 47017021130000 BIG LIME 47017021130000 BIG INJUN 47017021130000 GANTZ /SD/ 47017021130000 FIFTY FOOT SD 47017021130000 GORDON STRAY /SD/ 47017021130000 GORDON 47017056290000 BIG LIME 47017056290000 BIG INJUN 47017056290000 WEIR /SD/ 47017056290000 GANTZ /SD/ 47017056290000 GORDON 47017056290000 FIFTH SAND 47017056290000 WARREN /SD/ 47017056290000 SPEECHLEY 47017056290000 BALLTOWN 47017056290000 RILEY /SD/ 47017056290000 BENSON /SD/ 47017056290000 ALEXANDER 47017056290000 GENESEE /SH/ 47017056290000 GENESEO /SH/ 47017056290000 TULLY /LM/ 47017056290000 MARCELLUS /SH/ 47017056290000 ONONDAGA /LM/ 47017038170000 LITTLE LIME 47017038170000 BIG LIME 47017038170000 BIG INJUN /SD/ 47017038170000 WEIR /SD/ 47017038170000 BEREA 47017038170000 WARREN /SD/ 47017038170000 RILEY /SD/ 47017038170000 BENSON /SD/ 47017038170000 ALEXANDER

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



(date)

[Conventional Well Operator] [address] [state]

RE: Doddridge County Hydraulic Fracturing Notice

Dear Sir/Madam,

EQT has developed a Marcellus pad (Oxford 43 pad) located in Doddridge 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 6,600' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,100' TVD).

EQT anticipates conducting hydraulic fracturing at the Oxford 43 pad during the [first,second, third,fourth] quarter of [year]. We have identified conventional natural gas wells operated by your company within 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 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.
- 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

cc: James Martin, WV Office of Oil and Gas

09/02/2016 Afterchine & B

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 LL

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 Jennifei
Nobel County/Jackson Township
Permit # 4037

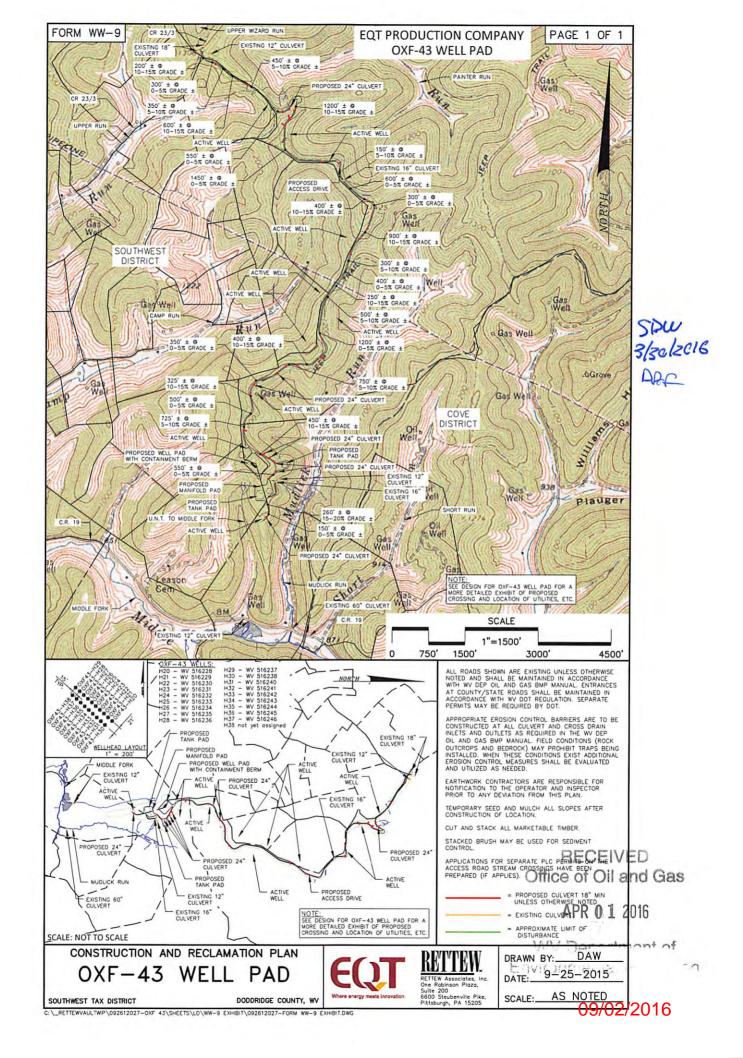
KING EXCAVATING CO.

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

RECEIVED
Office of Oil and Gas

APR 0 1 2016

MAY Densitment of Environment is setten





Site Specific Safety Plan

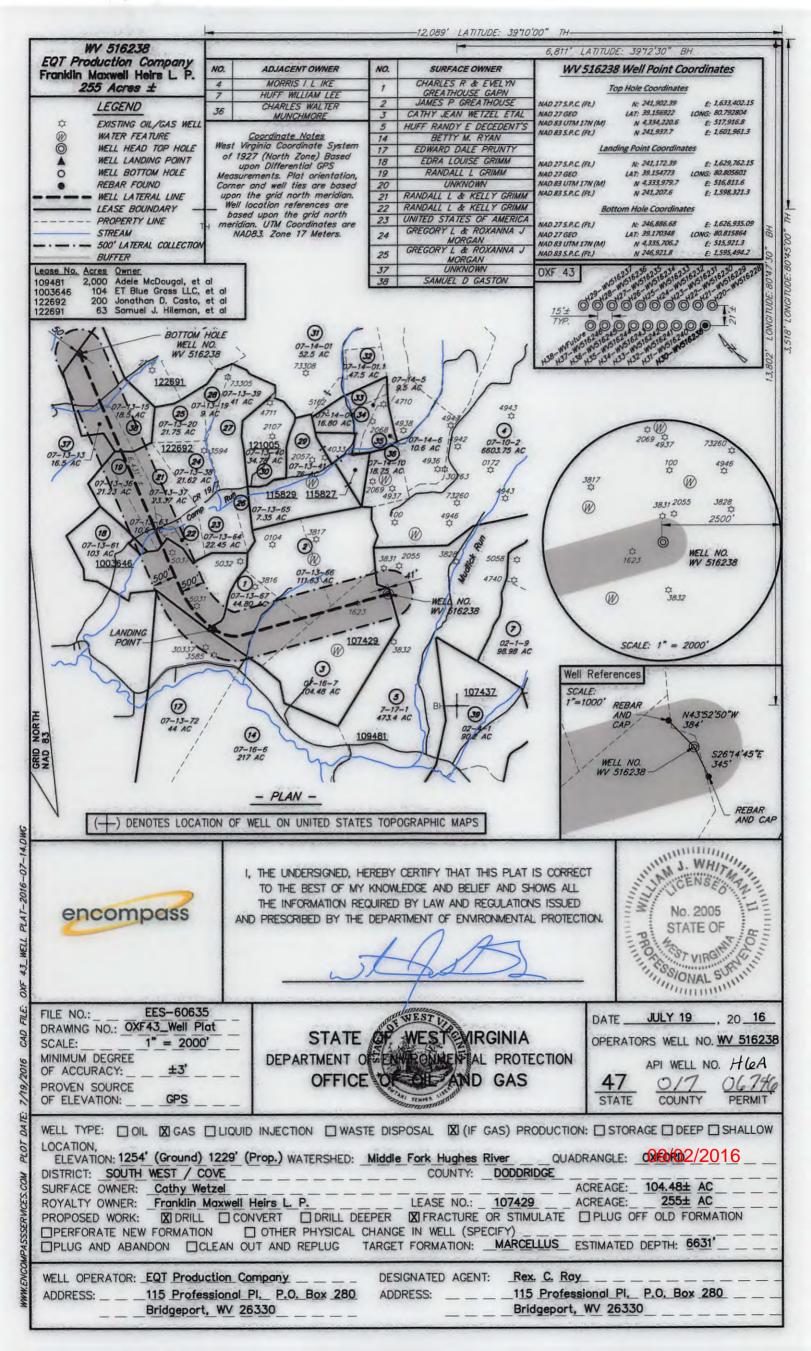
EQT OXF43 Pad

Oxford

Doddridge County, WV

For Wells:

516	228	_516229	516230	516231_	516232_	516233	516234_
5162	235	516238	516240				
EQT Product Determination	//	L Sepenu.	Date Prep	ared:	Title	Sow I Gas Inspector RECE	il and Gas
Date					Date		artment of tal Protection



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

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

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

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease Name or			330	2 - 62 -

see attached

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

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

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

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

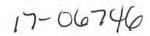
RECEIVED Office of Oil and Deperator: EQT Production Company Victoria J. Roark APR 0 1 2018: Permitting Supervisor WV Department of

Environmental Protection

Page 1 of

516238

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc. Royal	ty Book/Page
107429	Franklin Maxwell Heirs L.P. (current royalty owner)		· ·
	W. Brent Maxwell, et al (original lessor)	Fisher Oil Co.	LB23/337
	Fisher Oil Co.	The Philadelphia Oil Co.	LB24/64
	The Philadelphia Oil Co.	The Philadelphia Co. of West Virginia	DB87/90
	The Philadelphia Co. of West Virginia	Equitable Gas Co.	LB95/88
	Equitable Gas Co.	Equitrans, Inc.	LB154/475
	Equittrans, Inc.	Equitable Production-Eastern States, Inc.	LB 192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company	CB281/346
	Equitable Production Company	EQT Production Co.	CB281/346
<u>109481</u>	Adele McDougal et al (currenty royalty owner)		
	Jackson Leeson, et al (original lessor)	The Philadelphia Co. of West Virginia	LB21/76
	The Philadelphia Co. of West Virginia	Pittsburgh & West Virginia Gas 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	CB281/346
	Equitable Production Company	EQT Production Company	CB281/346
1003646	ET Blue Grass LLC, et al (current royalty owner)		
	Cyril Scott, et ux, et al (original lessor)	Hugh Spencer	LB91/637
	Hugh Spencer	J & J Enterprises	LB111/390
	J & J Enterprises	Eastern American Energy Corp.	LB211/137
	Eastern American Energy Corp.	Energy Corporation of America	LB240/498
	Energy Corporation of America	Antero Resources Corp.	LB272/339
	Antero Resources Corp.	EQT Production Co.	DB330/617
<u>122692</u>	Jonathan D. Casto, et al (current royalty owner)		
	R. J. Gaston, et al (original lessor)	Carter Oil Co.	LB36/362
	Carter Oil Co.	Hope Natural Gas Co.	LB42/410
	Hope Natural Gas Co.	Pittsburgh & WV Gas Co.	LB53/82
	Pittsburgh & WV Gas Co.	Equitable Gas Co.	DB121/303
	Equitable Gas Co.	Equitrans, Inc.	LB154/475
	Equittrans, Inc.	Equitable Production-Eastern States, Inc.	LB192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company	CB281/346
	Equitable Production Company	EQT Production Co.	CB281/346
<u>122691</u>	Samuel J. Hileman, et al (current royalty owner)	I C Terinor	1.004/044
	John M. Gaston. et ux (original lessor) J. C. Trainer	J. C. Trainer Carter Oil Co.	LB31/311
	Carter Oil Co.	Hope Natural Gas Co.	LB37/389 LB42/411
		Notes Lingh & WV Gas Co.	LB42/411 LB53/82
	Pittsburgh & WV Gas Co.	्रा प्राच्यात्रम् । स्थाप प्रवेड ८०. I Feminatia विशेष्ट	DB121/302
	Equitable Gas Co.	Egyipti	DB154/475
	Equitans, Inc.	Equitatis, Inc.	LB192/19
	Equitable Production-Eastern States, Inc.	· Equitable Production Company	CB281/346
	Equitable Production Company	a Fifth British Co.	CB281/346
	WA Deba	attition of	
	Environmen	tal Protection	





March 21, 2016

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

Re: OXF43, 516238

South West/Cove District, Doddridge County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. 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.

Sincerely,

Vicki Roark

Permitting Supervisor-WV

RECEIVED
Office of Oil and Gas

APR 0 1 2016

WV Department of Environmental Protection

RECEIVED

Received

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

Date of No	otice Certification: 6-2	5-15 A	PI No. 47 - 017	- 0
			perator's Well No.	516238
		W	ell Pad Name:	OXF43
a ser se				
	been given:	Carlo C 00 CA Na Oceantes has a suite distribution		Note: Proceedings
	e tract of land as follows:	Code § 22-6A, the Operator has provided the	e required parties with the	Notice Forms listed
State:	WV	UTM NAD 83 Easting:		517,916.80
county:	Doddridge	UTM NAD 83 Northing:		4,334,220.60
istrict:	South West / Cove			RT20
uadrangle:	Oxford	Generally used farm name:		Cathy Wetzel
/atershed:	Middle Fork Hughes River			
ursuant to		e Operator has attached proof to this Notice quired parties with the following:	Certification	OOG OFFICE USE
PLEASE	CHECK ALL THAT APPLY			ONLY
, LL, LOL .	ONE ON MEETING MITTER		_	RECEIVED/NOT
NOTICE	E OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUC	SE NO CTED	REQUIRED
NOTIC	E OF ENTRY FOR PLAT SU	IRVEY or VO PLAT SURVEY WAS	S CONDUCTED	RECEIVED
✓ NOTICI	E OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SI WAS CONDUCTED OR		RECEIVED/NOT REQUIRED
		WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	OWNER	
✓ NOTICE	E OF PLANNED OPERATIO	N	E	RECEIVED
	E OF PLANNED OPERATION OF THE PLANNED OPERATION OPERATIO	N	-	RECEIVED RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and 015 Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, 09/02/2016 the return receipt card or other postal receipt for certified mailing.

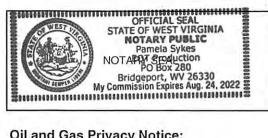
WW-6AC (1/12)

17-06746

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 Victoria J. Roark Bridgeport, WV 26330 By: Permitting Supervisor Facsimile: 304-848-0040 Its: 304-848-0076 vroark@egt.com Telephone: Email:



Subscribed and sworn before me this

Notary Public

My Commission Expires

8-24.22

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.

WW-6A (9-13)

API NO.	47	-	017	 06746	0
OPERATO	R WEL	L NO	17 [516238	
Well Pad	Name	è		OXF43	

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

	notice shall be provided no later t			
Date of Notice:	25-15 Date Permit	Application Filed:	6	25-15
Notice of:				
PERMIT FOR ANY	☐ CERTIFICA	TE OF APPROVAL	FOR TH	
WELL WORK	CONSTRUC	CTION OF AN IMPO	DUNDME	NT OR PIT
Delivery method pursuant	t to West Virginia Code § 22-6	A-10(b)		
☐ PERSONAL	REGISTERED	☑ метно	DD OF DE	LIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIF	PT OR SIG	NATURE CONFIRMATION
requires a receipt or sig- plat to each of the follothe surface tract or trac- disturbance as described lessee, in the event the record of the surface traconstruction, enlargem water purveyor who is which is used to provide work activity is to take in the lands, the applicanticle one, chapter ele- unless the lien holder in	gnature confirmation, copies owing persons: (1) The owners overlying the oil and gasted in the erosion and sedim tract of land on which the fact or tracts overlying the other, alteration, repair, removed the water for consumption by place. (c)(1) If more than ant may serve the documer ven-a of this code. (2) Notes the landowner. W. Va. Cany water purveyor or surface.	es of the applicate ners of record of seasehold being nent control plan well proposed to boil and gas leased oval or abandonn have a water well by humans or don't required upon withstanding any ode R. § 35-8-5. Tace owner subjections of the subjection of the subje	ion, the the surfice develop submitted be drill nold bein nent of all, spring mestic are common to the percent provision.	hall deliver, by personal service or by registered mail or by any perosion and sediment control plan required by section seven of ace of the tract on which the well is or is proposed to be located; and by the proposed well work, if the surface tract is to be used and pursuant to subsection (c), section seven of this article; (3) and developed by the proposed well work, if the surface tract is to any impoundment or pit as described in section nine of this or water supply source located within one thousand five simals; and (6) The operator of any natural gas storage field or other co-owners of interests described in subsection (b) of son described in the records of the sheriff required to be on of this article to the contrary, notice to a lien holder is not ares, in part, that the operator shall also provide the Well Site ce and water testing as provided in section 15 of this rule.
✓ Application Notice ✓ SURFACE OWNE Name: Address:	ER(s) Cathy Jean W 322 Zacks F	Run Road Ac		Plat Notice is hereby provided to: AL OWNER OR LESSEE Franklin Maxwell Heirs LTD Partnership #1
-	Mount Clare W	VV 26408		PO Box 2395 Buckhannon WV 26201
Name: Address:			CO. ame: ddress:	AL OPERATOR 0 0 0
☑ SURFACE OWN!	ERS(s) (Road and/or Other	Disturbance)		0
Name: TH Address:	ne Randy E Huff Decedent C/O Joye E Hu 826 Or Coronado C	range Ave A		RFACE OWNER OF WATER WELL WATER PURVEYOR(s) Randy E Huff Decedent's Trust B
Name:	William	Lee Huff	ddress:	826 Orange Ave
Address:	1108 W County Midland			Coronado CA 92118
		Attached		
SURFACE OWNI Name: Address:	ER(s) (Impoundments/Pits) Randy E Huff Decedent C/O Joye E Hu	r's Trust B No	OPI ame: ddress:	rator of any natural gas sto received Office of Oil & Gas
- T	826 Orange Coronado (
	See Attached			tach additional forms if necessary

WW6-A

Additional Surface Ownders (Access Roads or other Disturbances):

I.L. Morris PO Box 397 Glenville WV 26351

Mathew Copeland 3 Earl Dr Cape May NJ 08204

Sandra Matheny Armentrout & William A. Armentrout 851 Mace St. Elkview WV 25071

Additional Surface Owners (Pit or Impoundments):

William Lee Huff 1108 W County Rd. 130 Midland TX 79706

> Received Office of Oil & Gas JUN 26 2015

WW-6A	
(8-13)	

API NO. <u>47</u> - <u>017</u>	0	6746
OPERATOR WELL NO.	516238	
Well Pad Name:	OYF43	

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 predrilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

Well Location Restrictions

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

WW-6A (8-13)

API NO. <u>47</u> - <u>01</u>	70	674Ce
OPERATOR WELL NO.	516238	•
Wall Dad Name:	OVE/2	•

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-bycase basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 Received
Office of Oil & Gas
JUN 26 2015

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

WW-6A (8-13) API NO. 47 - 017 - 0 6746

OPERATOR WELL NO. 516238

Well Pad Name: OXF43

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Received
Office of Oil & Gas
JUN 2 6 2015

17-06746

Notice is hereby given by:

Well Operator:EQT Production Company
Telephone:Address:115 Professional Place P.O. Box 280Telephone:304-848-0082Bridgeport, WV 26330Email:Vroark@eqt.comFacsimile: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.

STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

By: Victoria Roark

My Commission Expir

Its: Permitting Supervisor

Subscribed and sworn before n 24 da

20.400

, 2015

__ Notary Public

Received
Office of Oil & Gas
JUN 2 6 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.

Date of Notice:	ent Notice shall be provided at least TEN (10	plication Filed:	JUN 1 4 2015	<u> </u>	
Delivery method pursi	ant to West Virginia Code § 22-6A-16(b)				
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Pursuant to W. Va. Coo	le § 22-6A-16(b), at least ten days prior to fili	ng a permit applicat	ion, an operator shall, by certif	fied mail return	
drilling a horizontal we of this subsection as of subsection may be wai	and delivery, give the surface owner notice of II: Provided, That notice given pursuant to su the date the notice was provided to the surf wed in writing by the surface owner. The not the number and electronic mail address of the	bsection (a), section face owner: Provided ice, if required, shall	ten of this article satisfies the d, however, That the notice red include the name, address, tel	requirements quirements of this lephone number,	
Notice is hereby provi	ded to the SURFACE OWNER(s):	1			
Name:	William Lee Huff	(Name:		I.L. Morris	
Address:	1108 W. County Road 130	Address:		PO Box 397	
	Midland TX 79706	_		Glenville WV 26351	
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needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will

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

appropriately secure your personal information. If you have any questions about our use or your personal information, please 0.0402/2016

ator Well No.	516238

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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watershed.	ivindale Fork Hughes River			-
Quadrangle: Watershed:	Middle Fork Hughes River	Generally us	ed farm name:	Cathy Wetzel
District:	South West / Cove		c Road Access:	RT20
County:	Doddridge	911111111111111111111111111111111111111	Northing	4,334,220.60
State:	WV	UTM NAD 83	Easting	517,916.80
	by given: est Virginia Code § 22-6A-16(b), notice is hereby given ner's land for the purpose of drilling a horizontal well		Coronado CA 92118 ell operator has an intent to enter upoп	
	Mount Clare WV 26408		826 Orange Ave	
Address:	322 Zacks Run Road	Address:	c/o Joye E Huff	
Notice is here Name:	by provided to the SURFACE OWNER(s): Cathy Jean Wetzel et al	Name:	Randy E Huff Decedent's Trust B	
drilling a horiz of this subsect subsection ma	ted or hand delivery, give the surface owner notice of ontal well: Provided, That notice given pursuant to sub- ion as of the date the notice was provided to the surfa y be waived in writing by the surface owner. The notice, facsimile number and electronic mail address of the	section (a), section ten on the owner: Provided, how e, if required, shall inclu	of this article satisfies the requirements vever, That the notice requirements of this de the name, address, telephone number,	
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Delivery meth	od pursuant to West Virginia Code § 22-6A-16(b)			
Date of Notice	: JUN () 4 2015 Date Permit App	olication Filed:	JUN 1 4 2015	
25-5-5-5-5-5-6	equirement: Notice shall be provided at least TEN (10	days brior to ming a be		

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.

Operator Well No.	516238

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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	ion as of the date the notice was provided to the surfa			•
	y be waived in writing by the surface owner. The notice			
	e, facsimile number and electronic mail address of the			
a avaab.c	, resimile number and electronic man address of the	operator and the operat	tor 3 authorized representa	uve.
Notice is hereb	by provided to the SURFACE OWNER(s):			
Name:	Mathew Copeland	Name: Sandr	ra Matheny Armentrout & Willi	iam A Armentrout
Address:	3 Earl Drive	Address:	· · · · · · · · · · · · · · · · · · ·	851 Mace St
	Cape May NJ 08204		E	lkview WV 25071
	Cape May 115 COZO+			
Pursuant to We		_	•	o enter upon
Pursuant to We he surface ow	by given: est Virginia Code § 22-6A-16(b), notice is hereby given oner's land for the purpose of drilling a horizontal well	_	ollows:	·
Pursuant to We the surface ow State:	by given: est Virginia Code § 22-6A-16(b), notice is hereby given oner's land for the purpose of drilling a horizontal well WV	_	Dllows:	517,916.80
Pursuant to We the surface ow State: County:	by given: est Virginia Code § 22-6A-16(b), notice is hereby given ner's land for the purpose of drilling a horizontal well WV Doddridge	on the tract of land as fo	Easting Northing	517,916.80 4,334,220.60
Pursuant to We the surface ow State: County: District:	est Virginia Code § 22-6A-16(b), notice is hereby given reer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove	on the tract of land as fo UTM NAD 83 Publi	Easting Northing ic Road Access:	517,916.80 4,334,220.60 RT20
Pursuant to We the surface ow State: County: District: Quadrangle:	est Virginia Code § 22-6A-16(b), notice is hereby given reer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford	on the tract of land as fo UTM NAD 83 Publi	Easting Northing	517,916.80 4,334,220.60
Pursuant to We the surface ow State: County: District: Quadrangle:	est Virginia Code § 22-6A-16(b), notice is hereby given reer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove	on the tract of land as fo UTM NAD 83 Publi	Easting Northing ic Road Access:	517,916.80 4,334,220.60 RT20
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed:	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River	on the tract of land as fo UTM NAD 83 Publi	Easting Northing ic Road Access:	517,916.80 4,334,220.60 RT20
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed:	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River	on the tract of land as fo UTM NAD 83 Publi Generally us	Easting Northing ic Road Access: sed farm name:	517,916.80 4,334,220.60 RT20 Cathy Wetzel
the surface ow State: County: District: Quadrangle: Watershed: This Notice Sha	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River all Include:	on the tract of land as fo UTM NAD 83 Publi Generally us	Easting Northing ic Road Access: sed farm name:	517,916.80 4,334,220.60 RT20 Cathy Wetzel
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed: This Notice Sha Pursuant to We facsimile numb	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River all Include: est Virginia Code § 22-6A-16(b), this notice shall include.	UTM NAD 83 Publi Generally us de the name, address, tee	Easting Northing ic Road Access: sed farm name:	517,916.80 4,334,220.60 RT20 Cathy Wetzel
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed: This Notice Sha Pursuant to We facsimile numb	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River all Include: est Virginia Code § 22-6A-16(b), this notice shall included and electronic mail address of the operator and the	UTM NAD 83 Publi Generally us de the name, address, tee operator's authorized the WV Department of least one of the work of the wv Department of least one of l	Easting Northing ic Road Access: sed farm name: slephone number, and if avarepresentative. Additional in Environmental Protection h	517,916.80 4,334,220.60 RT20 Cathy Wetzel ailable, information eadquarters,
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed: Pursuant to We facsimile numb related to horiz located at 601	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River all Include: est Virginia Code § 22-6A-16(b), this notice shall included and electronic mail address of the operator and the zontal drilling may be obtained from the Secretary, at 57th Street, SE, Charleston, WV 25304 (304-926-0450)	UTM NAD 83 Publi Generally us de the name, address, tee operator's authorized the WV Department of least one of the work of the wv Department of least one of l	Easting Northing ic Road Access: sed farm name: slephone number, and if avarepresentative. Additional in Environmental Protection h	517,916.80 4,334,220.60 RT20 Cathy Wetzel ailable, information eadquarters,
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed: Fhis Notice Sha Pursuant to We facsimile numb related to horiz located at 601 Notice is hereb	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River all Include: est Virginia Code § 22-6A-16(b), this notice shall included and electronic mail address of the operator and the zontal drilling may be obtained from the Secretary, at 57th Street, SE, Charleston, WV 25304 (304-926-0450) by given by:	UTM NAD 83 Publi Generally us de the name, address, te e operator's authorized the WV Department of le or by visiting www.dep	Easting Northing ic Road Access: sed farm name: slephone number, and if avarepresentative. Additional ic Environmental Protection how, gov/oil-and-gas/pages	517,916.80 4,334,220.60 RT20 Cathy Wetzel ailable, information eadquarters, /default.aspx
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed: Fhis Notice Sha Pursuant to We facsimile numb related to horia located at 601 Notice is herek Well Operator:	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River all Include: est Virginia Code § 22-6A-16(b), this notice shall included and electronic mail address of the operator and the zontal drilling may be obtained from the Secretary, at 57th Street, SE, Charleston, WV 25304 (304-926-0450) by given by: EQT Production Company	UTM NAD 83 Publi Generally us de the name, address, te e operator's authorized the WV Department of I) or by visiting www.dep	Easting Northing ic Road Access: sed farm name: selephone number, and if avarepresentative. Additional is Environmental Protection howw.gov/oil-and-gas/pages	517,916.80 4,334,220.60 RT20 Cathy Wetzel silable, information eadquarters, /default.aspx
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed: Fhis Notice Sha Pursuant to We facsimile numb related to horia located at 601 Notice is herek Well Operator:	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River all Include: est Virginia Code § 22-6A-16(b), this notice shall include est Virginia Code § 22-6A-16(b), this notice shall include for and electronic mail address of the operator and the zontal drilling may be obtained from the Secretary, at 57th Street, SE, Charleston, WV 25304 (304-926-0450) by given by: EQT Production Company 115 Professional Place, P.O Box 280	UTM NAD 83 Publi Generally us de the name, address, te e operator's authorized the WV Department of le or by visiting www.dep	Easting Northing ic Road Access: sed farm name: selephone number, and if avarepresentative. Additional is Environmental Protection howw.gov/oil-and-gas/pages	517,916.80 4,334,220.60 RT20 Cathy Wetzel silable, information eadquarters, /default.aspx Victoria Roa 5 Professional Place, P.O Box 2
Pursuant to We he surface ow state: County: District: Quadrangle: Watershed: Pursuant to We acsimile numberelated to horizocated at 601 Notice is herely well Operator: Address:	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River all Include: est Virginia Code § 22-6A-16(b), this notice shall includer and electronic mail address of the operator and the zontal drilling may be obtained from the Secretary, at 57th Street, SE, Charleston, WV 25304 (304-926-0450) by given by: EQT Production Company 115 Professional Place, P.O Box 280 Bridgeport, WV 26330	UTM NAD 83 Publi Generally us de the name, address, te e operator's authorized the WV Department of l or by visiting www.dep Authorized Representa	Easting Northing ic Road Access: sed farm name: selephone number, and if avarepresentative. Additional is Environmental Protection howw.gov/oil-and-gas/pages	517,916.80 4,334,220.60 RT20 Cathy Wetzel silable, information eadquarters, /default.aspx Victoria Roa 5 Professional Place, P.O Box 2 Bridgeport, WV 263
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed: This Notice Sha Pursuant to We facsimile numb	est Virginia Code § 22-6A-16(b), notice is hereby given mer's land for the purpose of drilling a horizontal well WV Doddridge South West / Cove Oxford Middle Fork Hughes River all Include: est Virginia Code § 22-6A-16(b), this notice shall include est Virginia Code § 22-6A-16(b), this notice shall include for and electronic mail address of the operator and the zontal drilling may be obtained from the Secretary, at 57th Street, SE, Charleston, WV 25304 (304-926-0450) by given by: EQT Production Company 115 Professional Place, P.O Box 280	UTM NAD 83 Publi Generally us de the name, address, te e operator's authorized the WV Department of I) or by visiting www.dep	Easting Northing ic Road Access: sed farm name: selephone number, and if avarepresentative. Additional is Environmental Protection howw.gov/oil-and-gas/pages	517,916.80 4,334,220.60 RT20 Cathy Wetzel silable, information eadquarters,

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

WW-6A5 (1/12)

Operator Well No.

516238

STATE OF WEST VIRGINIA

	NOTICE OF P	ANNED OPERA		AND GAS
Notice Time Re	equirement: notice shall be provided no lat	er than the filing	date of permit app	lication.
Date of Notice	그 집에 가장 하나 아이들이 살아가 되었다면 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다면	Date Permit App		6-25-15
Delivery meth	od pursuant to West Virginia Code § 22-6/	-16(c)		
	FIED MAIL HAI RN RECEIPT REQUESTED DEI	ND LIVERY		
return receipt re the planned ope required to be p drilling of a horiz damages to the	Va. Code § 22-6A-16(c), no later than the date for equested or hand delivery, give the surface own ration. The notice required by this subsection sland rovided by subsection (b), section ten of this art contal well; and (3) A proposed surface use and surface affected by oil and gas operations to the equired by this section shall be given to the surface.	er whose land will nall include: (1) A c icle to a surface ov compensation agre extent the damag	be used for the drillin opy of this code section oner whose land will be eement containing an es are compensable o	g of a horizontal well notice of on; (2) The information be used in conjunction with the offer of compensation for under article six-b of this chapter.
Notice is hereby	provided to the SURFACE OWNER(s)			
(at the address li	isted in the records of the sheriff at the time of	notice):		
Name:	Cathy Jean Wet	The state of the s		Randy E Huff Decedent's Trust B
Address:	322 Zacks Ri	in Road Addre	ess:	C/O Joye E Huff
				826 Orange Ave Coronado CA 92118
Pursuant to Wes operation on the State: County:	20.00	iven that the unde	on the tract of land as Easting: Northing:	826 Orange Ave Coronado CA 92118 has developed a planned
	given: t Virginia Code § 22-6A-16(c), notice is hereby g s surface owner's land for the purpose of drilling WV Doddridge	iven that the unde a horizontal well o UTM NAD 83	on the tract of land as Easting: Northing: cess:	826 Orange Ave Coronado CA 92118 r has developed a planned follows: 517,916.800000 4,334,220.600000
Pursuant to Wes operation on the State: County: District: Quadrangle:	given: It Virginia Code § 22-6A-16(c), notice is hereby good surface owner's land for the purpose of drilling WV Doddridge South West / Cove	iven that the unde a horizontal well o UTM NAD 83 Public Road Ac	on the tract of land as Easting: Northing: cess:	826 Orange Ave Coronado CA 92118 Thas developed a planned follows: 517,916.800000 4,334,220.600000 RT20
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relained.	r given: It Virginia Code § 22-6A-16(c), notice is hereby go a surface owner's land for the purpose of drilling WV Doddridge South West / Cove Oxford Middle Fork Hughes River I Include: It Virginia Code § 22-6A-16(c), this notice shall in the company with th	iven that the under a horizontal well of UTM NAD 83 Public Road Acc Generally used a clude: (1)A copy of whose land will be on agreement contages are compensated.	Easting: Northing: cess: farm name: f this code section; (2 e used in conjunction raining an offer of consible under article sixne WV Department of	826 Orange Ave Coronado CA 92118 Thas developed a planned Follows: 517,916.800000 4,334,220.600000 RT20 Cathy Wetzel The information required with the drilling of a supensation for damages to the b of this chapter. Additional Environmental Protection
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relaineadquarters, lopages/default.as	r given: tt Virginia Code § 22-6A-16(c), notice is hereby gesurface owner's land for the purpose of drilling WV Doddridge South West / Cove Oxford Middle Fork Hughes River I Include: tt Virginia Code § 22-6A-16(c), this notice shall in yw. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensation by oil and gas operations to the extent the dameted to horizontal drilling may be obtained from cated at 601 57th Street, SE, Charleston, WV 25-65.	iven that the under a horizontal well of UTM NAD 83 Public Road Actor Generally used a horizontal will be a horizontal will be a greement contages are compensative Secretary, at the 304 (304-926-045)	Easting: Northing: cess: farm name: f this code section; (2 e used in conjunction raining an offer of consider by the conjunction of the conjun	826 Orange Ave Coronado CA 92118 Thas developed a planned Follows: 517,916.800000 4,334,220.600000 RT20 Cathy Wetzel The information required with the drilling of a Inpensation for damages to the b of this chapter. Additional Fenvironmental Protection dep.wv.gov/oil-and-gas/
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information rela headquarters, lo pages/default.as Well Operator:	r given: tt Virginia Code § 22-6A-16(c), notice is hereby ge surface owner's land for the purpose of drilling WV Doddridge South West / Cove Oxford Middle Fork Hughes River I Include: tt Virginia Code § 22-6A-16(c), this notice shall in y W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensation by oil and gas operations to the extent the dame ted to horizontal drilling may be obtained from cated at 601 57th Street, SE, Charleston, WV 25-100. EQT Production Company	iven that the under a horizontal well of UTM NAD 83 Public Road Acc Generally used a horizontal will be a horizon	Easting: Northing: cess: farm name: f this code section; (2 e used in conjunction raining an offer of consible under article sixne WV Department of 0) or by visiting www.	826 Orange Ave Coronado CA 92118 Thas developed a planned Follows: 517,916.800000 4,334,220.600000 RT20 Cathy Wetzel The information required with the drilling of a Inpensation for damages to the b of this chapter. Additional Fenvironmental Protection dep.wv.gov/oil-and-gas/
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information rela headquarters, lo	r given: tt Virginia Code § 22-6A-16(c), notice is hereby gesurface owner's land for the purpose of drilling WV Doddridge South West / Cove Oxford Middle Fork Hughes River I Include: tt Virginia Code § 22-6A-16(c), this notice shall in yw. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensation by oil and gas operations to the extent the dameted to horizontal drilling may be obtained from cated at 601 57th Street, SE, Charleston, WV 25-65.	iven that the under a horizontal well of UTM NAD 83 Public Road Acc Generally used a horizontal will be a horizon	Easting: Northing: cess: farm name: f this code section; (2 e used in conjunction raining an offer of consider by the conjunction of the conjun	826 Orange Ave Coronado CA 92118 Thas developed a planned Follows: 517,916.800000 4,334,220.600000 RT20 Cathy Wetzel The information required with the drilling of a Inpensation for damages to the b of this chapter. Additional Fenvironmental Protection dep.wv.gov/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. 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 required. appropriately secure your personal information. If you have any questions about our use or your personal information, please of Oil & Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. ILIN 26 2015

WW-6A5 Operator Well No. 516238 (1/12)

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

	NOTICE OF PL	ANNED OPERA	TION	
Notice Time	Requirement: notice shall be provided no late			cation.
Date of Not	ice: <u>6 25-15</u> D	ate Permit Appl	ication Filed:	6-25-15
Delivery me	thod pursuant to West Virginia Code § 22-6A	-16(c)		
CEF	RTIFIED MAIL	ID		
	[1] [1] [1] [2] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	IVERY		
return receip the planned of required to be drilling of a he damages to t	V. Va. Code § 22-6A-16(c), no later than the date for t requested or hand delivery, give the surface owne operation. The notice required by this subsection sh e provided by subsection (b), section ten of this arti orizontal well; and (3) A proposed surface use and c he surface affected by oil and gas operations to the es required by this section shall be given to the surface	r whose land will be all include: (1) A co cle to a surface ow compensation agre extent the damage	e used for the drilling opy of this code section ner whose land will be ement containing an o es are compensable un	of a horizontal well notice of n; (2) The information used in conjunction with the ffer of compensation for der article six-b of this chapter.
Notice is her	eby provided to the SURFACE OWNER(s)			
at the addre	ss listed in the records of the sheriff at the time of n	notice):		
Name:	William Le	/		I L Morris
Address: _	1108 County	Rd 130 Addre	55:	PO Box 397
	Midland TX	79706		Glenville WV 26351
	Vest Virginia Code § 22-6A-16(c), notice is hereby gi the surface owner's land for the purpose of drilling WV		얼마나 이렇게 되는 얼룩하지 않는데 뭐요.	
County:	Doddridge		Northing:	4,334,220.600000
District:	South West / Cove	Public Road Acc	ess:	RT20
Quadrangle:	Oxford	Generally used	farm name:	Cathy Wetzel
Watershed:	Middle Fork Hughes River		7.7.	
to be provide horizontal we surface affect information r	Vest Virginia Code § 22-6A-16(c), this notice shall in a downward by W. Va. Code § 22-6A-10(b) to a surface owner all; and (3) A proposed surface use and compensations to the extent the dama related to horizontal drilling may be obtained from the colorated at 601 57th Street, SE, Charleston, WV 25:	whose land will be on agreement cont ages are compensa the Secretary, at th	used in conjunction was hining an offer of comp ble under article six-b e WV Department of E	with the drilling of a pensation for damages to the of this chapter. Additional nvironmental Protection
Well Operato	or: EQT Production Company	Address:	115 Professional Plac	ce, P.O. Box 280
Telephone:	304-848-0082	Bridgeport,	WV 26330	
Email:	vroark@egt.com	Facsimile:	304-848-0040	

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.

WW-6A5 Operator Well No. 516238 (1/12)

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

	NOTICE OF PL	ANNED OPERA	TION	
	equirement: notice shall be provided no late			
Date of Notice	: 6.25-15 D	ate Permit App	ication Filed:	6-25-15
Delivery meth	od pursuant to West Virginia Code § 22-6A-	16(c)		
	FIED MAIL HAN RECEIPT REQUESTED DEL	D IVERY		
return receipt re the planned ope required to be p drilling of a hori: damages to the (d) The notices r of notice.	/a. Code § 22-6A-16(c), no later than the date for equested or hand delivery, give the surface owneration. The notice required by this subsection show the notice required by this subsection show the notice required by this subsection show the notice required by subsection (b), section ten of this artice contal well; and (3) A proposed surface use and contains the surface affected by oil and gas operations to the equired by this section shall be given to the surface provided to the SURFACE OWNER(s)	r whose land will I all include: (1) A co cle to a surface ov ompensation agre extent the damag ace owner at the a	oe used for the drilling opy of this code section oner whose land will be ement containing an o es are compensable un	of a horizontal well notice of n; (2) The information used in conjunction with the ffer of compensation for der article six-b of this chapter.
at the address I	sted in the records of the sheriff at the time of n	otice):		
Name:	Mathew Cop	peland Name	<u> </u>	Sandra Mathany Armentrout
Address:	3	Earl Dr Addre	ss:	William A Armentrout
	Cape May NJ	08204		851 Mace St
	t Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling	a horizontal well o	on the tract of land as f	ollows:
County:	WV Doddridge	UTM NAD 83	Easting: Northing:	517,916.800000 4,334,220.600000
District:	South West / Cove	Public Road Acc		4,334,220.000000 RT20
Quadrangle:	Oxford	Generally used	the second second second	Cathy Wetzel
Watershed:	Middle Fork Hughes River	Generally used		eathy wetzer
to be provided b horizontal well; surface affected information rela	t Virginia Code § 22-6A-16(c), this notice shall inc y W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensatio by oil and gas operations to the extent the dama ted to horizontal drilling may be obtained from t cated at 601 57th Street, SE, Charleston, WV 253	whose land will be n agreement cont ges are compensa he Secretary, at th	e used in conjunction w aining an offer of comp able under article six-b ie WV Department of E	with the drilling of a pensation for damages to the of this chapter. Additional environmental Protection
Well Operator:	EQT Production Company	Address:	115 Professional Plac	ce, P.O. Box 280
Telephone:	304-848-0082	Bridgeport,		
Email:	vroark@eat.com		304-848-0040	

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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

April 15, 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 OXF43 Well Site, Doddridge County

516228 OXF43H20	516229 OXF43H21	516230 OXF43H22
516231 OXF43H23	516232 OXF43H24	516233 OXF43H25
516234 OXF43H26	516235 OXF43H27	516236 OXF43H28
516237 OXF43H29	516238 OXF43H30	516240 OXF43H31
516241 OXF43H32	516242 OXF43H33	516243 OXF43H34
516244 OXF43H35	516245 OXF43H36	516246 OXF43H37
516247 OXF43H38		

Dear Mr. Martin,

Earl Ray Tomblin

Governor

This well site will be accessed from Permit # 04-2015-0394 has been issued to EQT Production Company for access to the State Road for a well pad located off of County Rt. 23/3 SLS in Doddridge County.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-4

File

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

Office of Oil & Gas

Received
Office of Oil & Gas

JUN 26 2015

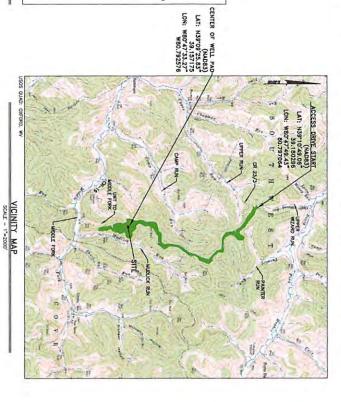


SITE CONSTRUCTION, RECLAMATION, AND **EROSION & SEDIMENT CONTROL PLANS**

FOR

OXF-43 WELL PAD

SOUTHWEST TAX DISTRICT, DODDRIDGE COUNTY, WV



AFFECTED TAX PARCELS:

RANDY E. HUFF DECEDENTS TRUST B: ET AL
LOT 4
APRE 7-17-1
D.B. 247 P. 296 WETZEL, CATHY SEAN; ET AL APN: 07-16-7

APN: 07-10-2 COPELAND, MATTHEW H.

71-73	52-70	38-51	24-37	10-23	9-9	2-7	-	101
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NOT FOR CONSTRUCTION/NOT FOR BIDDING

YOU DIG!

Dial 811 or 800.245,4848

COUNTY MAP

AMAN A AMI	Va.
RETTEW Associates, Inc. One Robinson Plaza, Suite : 6600 Steubenväle Plaz Pittsburgh, PA 15205 Phone (412) 446–1728	200

CONT
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EQT CORPORATION
115 PROFESSIONAL PLACE PROFESSIONAL BUILDING ONE
BRIDGEPORT, WEST VIRGINIA 26330
SCALE
AS MOTEO

	MANAGER: BRIAN D.	SPRAY, PE	FOR R
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