

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, April 17, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700 PITTSBURGH, PA 15222

Re: Permit approval for OXF43H34

47-017-06885-00-00

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.

James A. Martin

Chief

Operator's Well Number: OXF43H34

CATHY JEAN WETZEL, ET A Farm Name:

U.S. WELL NUMBER: 47-017-06885-00-00

Horizontal 6A New Drill Date Issued: 4/17/2019

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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. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. 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.
- 10. 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.

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PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: OXF43

County: Doddridge

January 24, 2019

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 OXF43H34 and OXF43H35.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

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 coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures 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 Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac 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 or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
- 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 other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any RECEIVED Office of Oil and Gas

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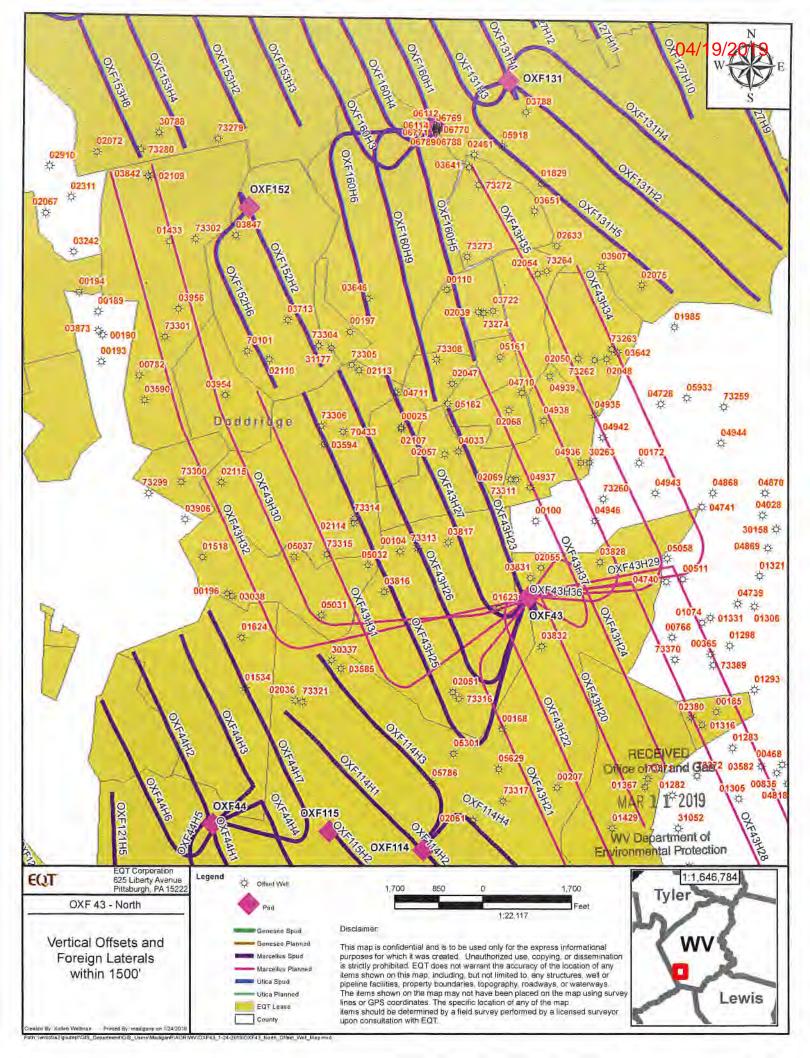
			6	Flavotice Datum	Cinni Cantur	Latituda I	ongitude Well Name	Permit Date Projected Formation	Registered TD - E	mud Data State	Tatal Banch Banch
Well ID 47017014080000	Abandoned Date Co	mpletion Date County 10/1/1966 DODDRIDGE	Current Operator	1241 GR	10&1G	39.1371	-80.7753 1 C A VANHORN	8/17/1966	Projected ID S	9/1/1966 WEST VIRGINIA	Total Depth Permit 2300 01408
4701701408000	9/9/1947	8/1/1918 DODDRIDGE		973 GR	D&A-OG	39.1498	-80.7731 5283 DECO VAN HORN	6/17/1918		7/2/1918 WEST VIRGINIA	1785 00179
47017048680000		10/14/2004 DODDRIDGE	SPENCER ENTERPRISES	1214 GR	GAS	39.1625	-80,7804 2 HICKMAN	8/31/2004 BIG INJUN	2300	9/9/2004 WEST VIRGINIA	2230 04868
47017301580000	1/1/1936		HOPE NATURAL GAS	1177 GR	ABD-GW	39.1606	-80.7761 5282 H C & EDWARD CHAPMAN	7404065		WEST VIRGINIA	1817 30158
47017012980000			MEADOWS 5 L JR PRODUCTION COMPANY CONSOL GAS COMPANY	1282 GR 940 GR	10&1G GAS	39.1545 39.1372	-80,7793 2 S L CHAPMAN -80,7740 5295 J ADAMS	7/18/1965		8/2/1965 WEST VIRGINIA WEST VIRGINIA	2232 01298 2520 01966
47017019660000 47017733700000			PHILAGELPHIA OIL	GR GR	UNKWN	39.1537	-80.7830 4245 JESSE WILLIAMS			WEST VIRGINIA	0 73370
47017015380001			MEADOWS 5 L JR PRODUCTION COMPANY	1035 GR	OIL-WO	39,1393	-80.7822 1 JOSHUA ADAMS	10/25/1972		11/4/1972 WEST VIRGINIA	2010 01538
47017732600000			HOPE NATURAL GAS	GR	UNKWN	39.1622	-80.7878 7055 5 W STOUT ET AL			WEST VIRGINIA	0 73260
47017036420000		6/27/1988 DODDRIDGE	TERM ENERGY	1238 KB	GAS	39.1698	-80.7869 1(88-3) PRUNTY MYRTLE M	6/2/1988 ALEXANDER	5320	6/12/1988 WEST VIRGINIA	5432 03642
47017013290000			MEADOWS S L JR PRODUCTION COMPANY DIVERSIFIED RESOURCES INCORPORATED	1170 GR 955 GR	10&1G GAS	39.1408 39.1641	-80.7821 7 THURMAN SPURGEON -80.7854 2 JESSE WILUAMS	8/17/1965 10/17/1946		9/1/1965 WEST VIRGINIA 11/1/1946 WEST VIRGINIA	2170 0132 9 1344 00172
47017001720000 47017020550000			EQUITABLE GAS COMPANY	1097 GR	ABD-GW	39.1585	-80.7920 4672 JACKSON LEESON	9/25/1918		.0/10/1918 WEST VIRGINIA	1639 02055
47017012820000			MEADOWS 5 L JR PRODUCTION COMPANY	1061 GR	10&1G	39.1466	-80.7832 4 THURMAN SPURGEON	6/17/1965		7/2/1965 WEST VIRGINIA	2032 01282
47017026330000			LUCAS WELL SERVICE INCORPORATED	1320 GR	GAS	39.1754	-80.7910 2-8 MAXWELL W BRENT	5/20/1980 GOROON /SD/		5/30/1980 WEST VIRGINIA	2795 02633
47017036510000		7/28/1988 DODDRIDGE		1195 KB	GAS	39.1772	-80.7925 2 FARR CAROLYN	7/6/1988 ALEXANDER	5250	7/16/1988 WEST VIRGINIA	5247 03651
47017013070000			MEADOWS S L JR PRODUCTION COMPANY	917 GR	OIL GAS	39.1429 39.1677	-80.7821 5 THURMAN SPURGEON -80.8019 1 RYMER	7/18/1965 12/22/2002 ALEXANDER	5600	8/2/1965 WEST VIRGINIA 1/2/2003 WEST VIRGINIA	1920 01307
47017047110000		1/20/2003 DODDRIDGE	EMPIRE OIL & GAS INCORPORATED	1235 GR 1168 GR	GAS	39.1731	-80.7984 1 LEESON CHARLES	9/6/1940 GORDON		9/21/1940 WEST VIRGINIA	5341 04711 2672 00110
47017001100000 47017021070000			EQT PRODUCTION COMPANY	1012 GR	GAS	39.1658	-80.8015 4983 ROSA B RYMER	5/19/1930		6/3/1930 WEST VIRGINIA	2502 02107
47017051620000		6/28/2006 DODDRIDGE		1201 GR	GAS	39.1671	-80.7984 7 ADAMS A	2/21/2006 GDRDON	3000	6/12/2006 WEST VIRGINIA	2755 05162
47017040330000		9/15/1993 DODDRIDGE		970 GR	GAS	39.1646	-80.7976 1 MATHENY BARRY LETALS	8/16/1993 ALEXANDER		8/26/1993 WEST VIRGIN!A	5000 04033
470170303B0000			ENERGY CORPORATION OF AMERICA INC	855 KB	GAS	39.1571	-80.8130 J-466 GRIMM DONALD	11/7/1981 ALEXANDER		1/17/1981 WEST VIRGINIA	5047 03038
47017016240000		8/7/1971 DODDRIDGE	R & R OIL & GAS LLC HOPE NATURAL GAS	967 GR GR	2GAS UNKWN	39.1549 39.1757	-80.8124 3 /1/ SNIDER W T -80.8155 S812 W B MAXWELL HRS	7/2/1971 UNKNOWN		7/12/1971 WEST VIRGINIA WEST VIRGINIA	2374 01624 0 73302
47017733020000 47017040280000		8/15/1993 DODDRIDGE		1295 GR	GAS	39.1613	-80.7770 1 SUMMERS PAUUNE ETAL	7/31/1993 ALEXANDER	5500	8/10/1993 WEST VIRGINIA	5470 04028
47017012930000			MEADOWS S L JR PRODUCTION COMPANY	1117 GR	10&1G	39.1522	-80.7776 15 L CHAPMAN	7/18/1965		8/2/1965 WEST VIRGINIA	2090 01293
47017037220000		6/24/1989 OODDRIDGE	TERM ENERGY	1031 KB	GAS	39.1720	-80.7953 1 SHIVE GLENN	6/3/1989 ALEXANDER		6/13/1989 WEST VIRGINIA	5094 03722
47017020500000	5/24/2006		EQT PRODUCTION COMPANY	1066 GR	ABD-GW	39.1695	-80.7895 4653 GASTON MARY V	3/23/1918 BIG INJUN		4/23/1918 WEST VIRGINIA	1823 02050
47017001720001			OIVERSIFIEO RESOURCES INCORPORATED	955 GR 863 GR	GAS OIL	39.1641 39.1418	-80,7854 2 JESSE WILUAMS -80,7882 6232 F L LODGE	10/17/1946 3/17/1978		11/1/1946 WEST VIRGINIA 4/1/1978 WEST VIRGINIA	2317 00172 1893 01885
47017018850000 47017047410000		10/4/2003 DODDRIDGE	EQT PRODUCTION COMPANY KEY OIL COMPANY	1202 GR	GAS	39.1617	-80.7811 1 HICKMAN	6/17/2003 ALEXANDER-	5600	9/29/2003 WEST VIRGINIA	5347 04741
47017019850000			CONSOL GAS COMPANY	1210 GR	GAS	39.1712	-80.7830 7057 S STOUT	5/31/1921		6/15/1921 WEST VIRGINIA	2053 01985
47017047100000		1/27/2003 DODDRIDGE		1206 GR	GAS	39.1677	-80.7933 1 ADAM5	12/22/2002 ALEXANDER		1/13/2003 WEST VIRGINIA	5343 04710
47017005110000			MID PINE DEVELOPMENT	1009 GR	10&1G	39.1580	-80.7824 1 H C CHAPMAN HEIRS	9/17/1961		10/2/1961 WEST VIRGINIA	1950 00511
47017733060000	1		UNKNOWN	GR 1220 GR	UNKWN GAS	39.1659 39.1814	-80.8069 1 SAM GASTON -80.7992 WV S13702 HART RONALD & JEFFERY	6/15/2016 MARCELLUS /SH/	*****	WEST VIRGINIA 2/19/2017 WEST VIRGINIA	0 73306
47017067710000			EQT PRODUCTION COMPANY ENERGY CORPORATION OF AMERICA INC	1220 GR 1075 KB	GAS	39.1814	-80.8027 1 MERT/MAXWELL F	8/22/1990 ALEXANDER		9/1/1990 WEST VIRGINIA	11191 06771 5235 03816
47017038160000 47017024610000			MURVIN & MEIER OIL COMPANY	1230 GR	GAS	39.1802	-80.7966 11 MAXWELL BRENT W	8/6/1979 BEREA		8/16/1979 WEST VIRGINIA	2636 02461
47017067700000			EQT PRODUCTION COMPANY	1243 KB	GAS	39.1815	-80,7992 WV 514101 HART RONALD & JEFFERY	6/15/2016 MARCELLUS /SH/		0/28/2016 WEST VIRGINIA	12065 06770
47017053010000			EQT PRODUCTION COMPANY	978 GR	GAS	39.1488	-80.7980 WV 510808 LEESON J	10/16/2006 ALEXANDER		1/15/2006 WEST VIRGINIA	5402 05301
47017067890000	1		EQT PRODUCTION COMPANY	1220 GR	PERMIT	39.1814 39.1691	-80.7992 WV 514102 OXF160	3/20/2017 MARCELLUS /SH/	11134	WEST VIRGINIA	0 06789
47017733050000			HOPE NATURAL GAS HOPE NATURAL GAS	GR GR	UNKWN	39,1691	-80.8049 7034 SAM GASTON -80.8176 6491 W B MAXWELL HRS			WEST VIRGINIA WEST VIRGINIA	0 73305 0 73301
47017733010000 47017021150000			EQUITABLE PRODUCTION COMPANY	1063 GR	ABD-GW	39.1630	-80.8137 WV 606112 GASTON	10/29/1980 BIG INJUN	1	1/29/1980 WEST VIRGINIA	1820 02115
47017021130000		8/9/1990 DODDRIDGE		1140 KB	GAS	39.1789	-80.8187 2 CASSIDY JOAN	7/13/1990 ALEXANDER		7/23/1990 WEST VIRGINIA	5259 03842
47017039540001		9/30/2002 DODORIDGE	TERM ENERGY	905 KB	GAS-WO	39.1676	-80.8135 5 GASTON SAMUEL D	8/6/2002 WEIR /5D/	1940	9/23/2002 WEST VIRGINIA	4960 03954
47017733470000			UNKNOWN	GR	UNKWN	39.1355	-80.7671 MELVILLE CONLEY			WEST VIRGINIA	0 73347
47017044000000		11/19/1997 DODDRIDGE		920 GR 893 GR	GAS D&A-O	39.1507 39.1464	-80.7731 1 DECO VANHORN HRS ETAL -80.7787 6 SPURGEON THURMAN	10/30/1997 ALEXANDER 8/17/1965 PRICE	5600	11/9/1997 WEST VIRGINIA 9/1/1965 WEST VIRGINIA	5194 04400
47017013050000 47017013310000		3/24/1966 DODDRIDGE	PENNZOIL COMPANY PENNZOIL COMPANY	893 GR GR	PSEUDO	39.1404	-80.7806 2 THOMAS HICKMAN	8/1//1983 PAICE		WEST VIRGINIA	1900 01305 0 01331
47017013310000		10/1/1965 DODDRIDGE		994 GR	D&A	39.1537	-80.7746 3 5 L CHAPMAN	8/17/1965		9/1/1965 WEST VIRGINIA	1964 01304
47017733710000			HOPE NATURAL GAS	GR	UNKWN	39.1475	-80.7848 1 F L LODGE			WEST VIRGINIA	0 73371
47017020540000		6/1/1996 DODDRIDGE		1247 GR	ABD-GW	39.1739	-80.7923 4666 GASTON	3/24/1996 WEIR /SD/		4/24/1996 WEST VIRGINIA	2795 02054
47017310520000		1/8/1919 DODDRIDGE		875 GR	ABD-GW	39.1449	-80.7828 5434 THURMAN SPURGEON	12/8/1918	1.	2/23/1918 WEST VIRGINIA	1757 31052
47017733720000		DODDRIDGE	OIVERSIFIED RESOURCES INCORPORATEO	GR 883 GR	UNKWN GAS	39.1477 39.1471	-80.7815 C-142 THOMAS SPURGEON -80.7910 7 JESSIE WILLIAMS 3	7/18/1962		WEST VIRGINIA 8/2/1962 WEST VIRGINIA	0 73372 1736 00207
47017002070001 47017049460		11/29/2005 DODDRIDGE	CONSOL GAS COMPANY	1123 GR	GAS	39.1610	-80.7884 14082 MORRIS I L	2/8/2005 GDRDON	2695 1	1/11/2005 WEST VIRGINIA	2720 04946
47017051610000)	O6/28/2006 DODDRIDGE	KEY OIL COMPANY	1100 GR	GAS	39.1696	-80.7948 6 ADAMS A	2/21/2006 GORDON	3000	6/15/2006 WEST VIRGINIA	2631 05161
47017023800	-	₹4/11/1919 OODORIDGE	EQT PRODUCTION COMPANY	1068 GR	GAS	39.1507	-80.7819 4703 W J HICKMAN	3/27/1919		4/11/1919 WEST VIRGINIA	2093 02380
47017023800000 47017038280000	MAR		ENERGY CORPORATION OF AMERICA INC	930 KB	GAS	39.1588	-80.7880 6 WILLIAMS JESSIE	9/1/1990 ALEXANDER		9/11/1990 WEST VIRGINIA	5107 03828
47017036410080		0 6/11/1988 DODORIDGE	TERM ENERGY	1220 K8 1243 KB	GAS GAS	39.1795 39.1815	-80.7970 88-2 FARR CARDLYN -80.7992 WV 513775 HART RONALD & JEFFERY	5/27/1988 ALEXANDER 6/15/2016 MARCELLU5/5H/		6/6/1988 WEST VIRGINIA 0/21/2016 WEST VIRGINIA	5279 03641 10756 06769
47017067690 26 0 47017057860 0 0	6 ~	Ostkijkota poposines	EQT PRODUCTION COMPANY EQT PRODUCTION COMPANY	1150 GR	GAS	39.1473	-80.7995 WV 511530 RYAN BETTY M	2/10/2009 MARCELLUS /SH/		7/5/2009 WEST VIRGINIA	10/56 06/69
47017037860		OD/171987 DODDRIDGE	TERM ENERGY	968 KB	GAS	39.1650	-80.8068 87-3-25 MCNEESE	9/23/1987 WEIR /SD/		10/3/1987 WEST VIRGINIA	5012 03594
47017733130		DODDRIDGE	UNKNOWN	GR	UNKWN	39.1596	-80.8004 4658 F MAXWELL			WEST VIRGINIA	0 73313
47017050320000	, 3	2005 DODDRIDGE	SPENCER ENTERPRISES	1184 GR	GAS	39.1587	-80,8038 2-A GRIMM	6/8/2005 BIG INJUN		5/18/2005 WEST VIRGINIA	2730 05032
47017038170680 47017036460201	20 en	26/12005 DODDRIDGE 6/12990 DODDRIDGE 12/5/2002 DODDRIDGE	ENERGY CORPORATION OF AMERICA INC	1220 KB	GAS WO	39.1599	-80.7984 2 MERT/MAXWELL F	5/26/1990 ALEXANDER		6/5/1990 WEST VIRGINIA	5323 03817
47017036460 55 1 47017036410 5 21		12/5/2002 DODDRIDGE	TERM ENERGY	1000 KB 1220 KB	GAS-WO GAS-WO	39.1726 39.1795	-80.8038 2 GASTON -80.7970 1 FARR	11/2/2002 GORDON 8/6/2002 BRADFORD		1/12/2002 WEST VIRGINIA B/15/2002 WEST VIRGINIA	5058 03646 5279 03641
47017036410 991 47017038420	9	0/3/2002 DODDRIDGE 1/21/2002 DOODRIDGE	TERM ENERGY	1140 KB	GAS-WO	39.1789	-80.8187 2 CASSIDY	11/13/2002 BIG INJUN		I/13/2002 WEST VIRGINIA	5279 03641 5259 03842
47017038420		8/17/1981 DODDRIDGE	BRAXTON OIL & GAS CORPORATION	1130 KB	GAS	39.1794	-80.8255 J-214 MUTSCHELKNAUS N G	7/26/1981 ALEXANDER		8/5/1981 WEST VIRGINIA	5318 02910
47017014330	3/22/1967	2/1/1967 DODORIDGE		913 GR	D&A-G	39.1755	-80.8173 1 M L HAUGHT	12/18/1966		1/2/1967 WEST VIRGINIA	1784 01433
47017039540000		6/30/1992 DODDRIDGE		905 KB	GAS	39.1676	-80.8135 GASTONS GASTON SAMMUEL ETAL	6/7/1992 ALEXANDER		5/17/1992 WEST VIRGINIA	4960 03954
47017048690000		8/31/2005 DODDRIDGE		1282 GR 940 GR	GAS GAS	39.1596 39.1372	-80.7767 2 SUMMERS -80.7740 5295 JOSHUA ADAMS	9/8/2004 GORDON 1/29/1957		3/21/2005 WEST VIRGINIA 2/13/1957 WEST VIRGINIA	2876 04869 2520 01966
47017019660001 47017049440000			CONSOL GAS COMPANY CONSOL GAS COMPANY	940 GR 1077 GR	GAS	39.1372	-80.7740 5295 JOSHOA ADAMS -80.7798 14085 MORRIS I L	2/8/2005 GORDON		12/1/2005 WEST VIRGINIA	2520 01966 2696 04944
4701704944000			BEECHUCK OIL INCORPORATED	1152 GR	10&1G	39.1540	-80.7806 1 JESSIE WILLIAMS ET VIR	7/18/1960		8/2/1960 WEST VIRGINIA	2033 00365

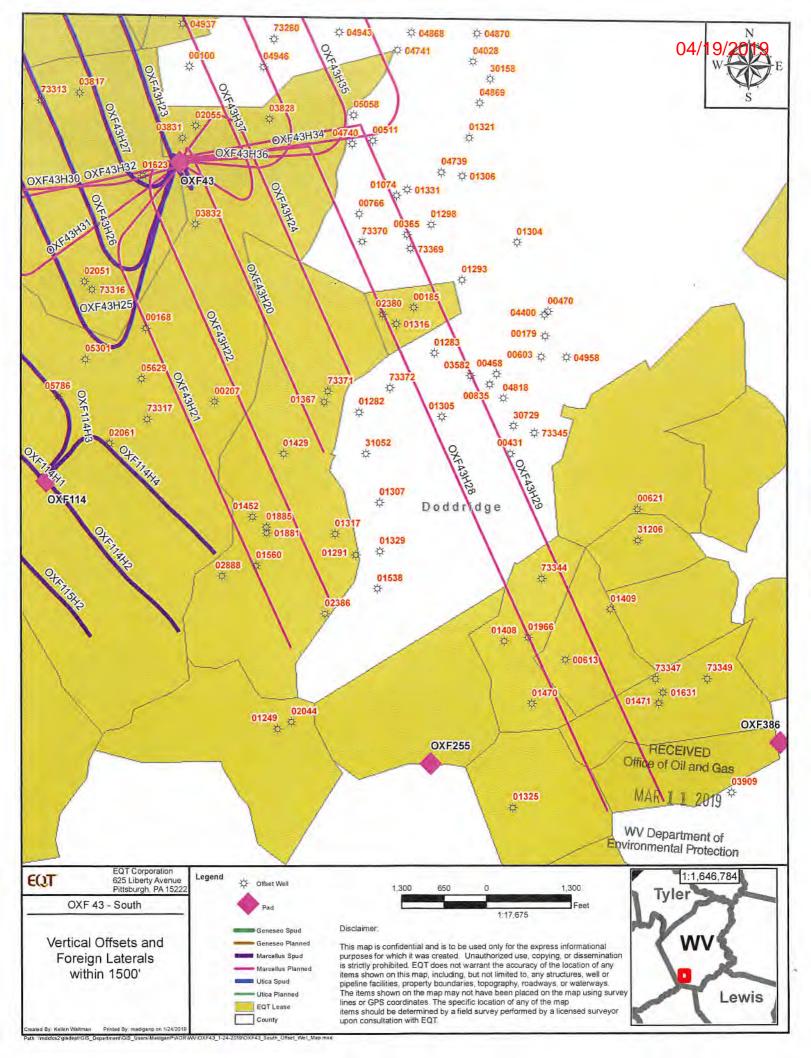
						20.4667	00 3707 3 11/6/4444	C42/2002 ALEVANDED		
47017047390000		10/22/2003 DODDRIDGE		1144 GR 937 GR	GAS 10&1G	39.1567 39.1449	-80.7787 3 HICKMAN -80.7750 1 OORSEY E HUFF	6/17/2003 ALEXANDER 9/17/1960	5600 10/9/2003 WEST VIRGINIA 10/2/1960 WEST VIRGINIA	5313 04739 1904 00431
47017004310000 47017049430000		11/1/1960 DODDRIDGE 12/10/2005 DODDRIDGE		984 GR	GAS	39.1625	-80.7843 14084 MORRIS I L	2/8/2005 GORDON	2555 11/16/2005 WEST VIRGINIA	2512 04943
47017007660000			BEECHLICK OIL INCORPORATED	935 GR	10&1G	39.1549	-80.7832 2 JESSIE WILLIAMS ET VIR	6/17/1962	7/2/1962 WEST VIRGINIA	1847 00766
47017049420000		10/14/2005 DODDRIDGE		1171 GR	GAS	39.1654	-80.7878 14083 MORRIS I L	2/8/2005 GORDON	2580 9/29/2005 WEST VIRGINIA	2762 04942
47017010740000		2/1/1964 DODDRIDGE	BEECHUCK OIL INCORPORATED	949 GR	GAS	39.1557	-80.7811 3 JESSIE WILLIAMS ET AL	12/18/1963	1/2/1964 WEST VIRGINIA	2459 01074
47017302630000	1/1/1938	10/24/1918 DODDRIDGE		1159 GR	ABD-GW	39.1641	-80.7888 4665 ALEXANDER ADAM5	9/1/1918	9/16/1918 WEST VIRGINIA	2054 30263
47017049370000		5/26/2006 DODDRIDGE		1224 GR	GAS	39.1628	-80.7928 3 ADAMS A	2/8/2005 GORDON	3000 5/17/2005 WEST VIRGINIA	2774 04937
47017056290000		• • -	EQT PRODUCTION COMPANY	866 KB	GAS	39.1480	-80.7950 WV 510840 LEESON J	4/15/2008 ALEXANDER	6400 6/10/2008 WEST VIRGINIA	6332 05629
47017001000001			CONSOL GAS COMPANY EQT PRODUCTION COMPANY	1163 GR 1081 GR	GAS OIL	39.1610 39.1423	-80.7924 7056 5 W STOUT -80.7889 6214 F L LODGE	6/4/1939 4/17/1967	6/19/1939 WEST VIRGINIA	2045 00100
47017014520000 47017733040000			HOPE NATURAL GAS	GR GR	UNKWN	39.1702	-80.8071 7032 SAMUEL HILEMAN	4/1//1907	5/2/1967 WEST VIRGINIA WEST VIRGINIA	2027 01452 0 73304
47017733340000	5/5/2006		EQUITABLE PRODUCTION COMPANY	1037 GR	ABD-GW	39.1719	-80.7963 4532 GASTON	8/1/1926 GORDON	9/1/1926 WEST VIRGINIA	2453 02039
47017061130000	3/3/2000		EQT PRODUCTION COMPANY	1220 GR	GAS	39.1816	-80.7992 WV 513173 GASTON S E	8/10/2012 MARCELLUS /SH/	8/30/2012 WEST VIRGINIA	13269 06113
47017037130001		11/12/2004 DODDRIDGE		977 KB	GAS-WO	39.1715	-80.8092 1 SCHWARTZMAN	9/24/2004 8IG INJUN	10/6/2004 WEST VIRGINIA	5065 03713
47017036460000		7/6/1988 DODDRIDGE	TERM ENERGY	1000 KB	GAS	39.1726	-80.8038 2 GASTON	6/13/1988 ALEXANDER	5065 6/23/1988 WEST VIRGINIA	5068 03646
47017733140000		DODDRIDGE	HOPE NATURAL GAS	GR	UNKWN	39.1612	-80.8047 7035 SAM GASTON		WEST VIRGINIA	D 73314
47017732990000		DODDRIDGE		GR	UNKWN	39.1625	-80.8187 1 J E TRAINER		WEST VIRGINIA	0 73299
47017038470000		10/2/1990 DODDRIDGE		1181 KB	GAS GAS	39.1759 39.1721	-80.8128 2 SCHWARTZMAN	9/9/1990 ALEXANDER 6/14/1992 ALEXANDER	5400 9/19/1990 WEST VIRGINIA 5300 6/24/1992 WEST VIRGINIA	5271 03847
47017039560000	12/18/1950	8/1/1992 DODDRIDGE 8/8/1950 DODDRIDGE		945 KB 831 GR	D&A-G	39.1572	-80.8166 CASSIDY3 HAUGHT MABEL G ETAL -80.8134 4593 M 5 GASTON 1	6/6/1950	5300 6/24/1992 WEST VIRGINIA 6/21/1950 WEST VIRGINIA	5017 03956 2288 00196
47017001960001 47017048180000	12/18/1950	3/1/2005 DODDRIDGE		959 GR	GAS	39,1472	-80.7753 2 CHAPMAN H C	4/19/2004 GORDON	3000 2/16/2005 WEST VIRGINIA	2681 04818
47017307290000	3/23/1949	5/17/1919 DODDRIDGE		979 GR	ABD-GW	39.1461	-80.7748 5468 H C CHAPMAN	3/24/1919	4/8/1919 WEST VIRGINIA	2526 30729
47017048700000	-,,	8/28/2005 DODDRIDGE		1271 GR	GAS	39.1625	-80.7768 3 SUMMERS	9/8/2004 GORDON	3000 8/24/2005 WEST VIRGINIA	2881 04870
47017006210000	12/6/1952	5/1/1962 DDDDRIDGE		1178 GR	D&A-G	39,1426	-80.7681 1 J H SPURGEON ET AL	3/17/1962	4/1/1962 WEST VIRGINIA	2270 00621
47017006030000		9/1/1961 DODDRIDGE	KELLY A A	1042 GR	D&A	39.1490	-80.7733 1 ROY RUPERT HRS	7/18/1961	8/2/1961 WEST VIRGINIA	1955 00603
47017006130000	1/1/1981	10/1/1961 DODDRIDGE		944 GR	A8D-GW	39.1363	-80,7720 3 ANDREW HURST	8/17/1961	9/1/1961 WEST VIRGINIA	2094 00613
47017014700000		7/11/1968 DODDRIDGE		1234 GR	GAS	39.1344	-80.7739 2 C A VANHORN	5/27/1968	6/11/1968 WEST VIRGINIA	2879 01470
47017012830000			MEADOWS S L JR PRODUCTION COMPANY EQT PRODUCTION COMPANY	1041 GR 1252 GR	10&1G GAS	39.1491 39.1806	-80.7791 3 THURMAN SPURGEON -80.7947 WV 512444 EAE/MAXWELL	6/17/1965 12/29/2009 MARCELLUS-/SH/	7/2/1965 WEST VIRGINIA 4/20/2010 WEST VIRGINIA	2018 01283
47017059180000 47017732740000			EQUITABLE RESOURCES EXPLORATION INC	1232 GR	UNKWN	39.1719	-80.7960 2632 C GASTON	12/23/2003 MARCELLOS/3H/	4/20/2010 WEST VIRGINIA WEST VIRGINIA	12244 05918 0 73274
47017732740000			EQT PRODUCTION COMPANY	1011 GR	10&1G	39.1403	-80.7888 6217 F L LODGE	8/17/1969	9/1/1969 WEST VIRGINIA	1943 01560
47017020690000			EQT PRODUCTION COMPANY	1188 GR	GAS	39.1632	-80.7941 4749 GASTON C	10/24/1980 KEENER/SD/	11/24/1980 WEST VIRGINIA	5053 02069
47017047280000			CONSOL GAS COMPANY	1135 GR	GAS	39.1671	-80.7839 6294 MORRIS IKE L	4/29/2003 WEIR /SD/	2365 4/24/2004 WEST VIRGINIA	2720 04728
47017020750000		DODDRIDGE	UNKNOWN	GR	PSEUDO	39.1734	-80.7852 4787 MAXWELL		WEST VIRGINIA	0 02075
47017001000000			CONSOL GAS COMPANY	1163 GR	UNKWN	39,1610	-80.7924 7056 S W STOUT	1/2/1930	1/17/1930 WEST VIRGINIA	0 00100
47017038310000			ENERGY CORPORATION OF AMERICA INC	1260 KB	GAS	39.1580	-80.7928 4 MERT/WILLIAMS	8/18/1990 ALEXANOER	5400 8/28/1990 WEST VIRGINIA	5422 03831
47017013170001			EQT PRODUCTION COMPANY	1057 GR	OIL	39.1416 39.1590	-80.7845 4709 F L LODGE	9/9/1965	9/24/1965 WEST VIRGINIA	2001 01317
47017050580000	4/0/1000	10/1/2005 DODDRIDGE		1206 GR 1162 GR	GAS ABD-GW	39.1337	-80.7835 3 HICKMAN -80.7869 4599 JENCY KEMPER 1	8/22/2005 BIG INJUN 10/17/1917	2300 8/17/2005 WEST VIRGINIA 11/1/1917 WEST VIRGINIA	2285 05058
47017020440000 47017050370000	4/9/1991		EQUITABLE GAS COMPANY SPENCER ENTERPRISES	940 GR	GAS	39.1591	-80.8088 3-A GRIMM	6/14/2005 BIG INJUN	2300 6/24/2005 WEST VIRGINIA	2700 02044 1950 05037
47017001040000			EQT PRODUCTION COMPANY	1095 GR	GAS	39.1594	-80.8016 4658 W B MAXWELL 2	7/18/1939	8/2/1939 WEST VIRGINIA	2492 00104
47017067880000			EQT PRODUCTION COMPANY	1220 GR	PERMIT	39.1814	-80.7992 WV 513172 OXF160	3/20/2017 MARCELLUS /SH/	11269 WEST VIRGINIA	0 06788
47017311770000	4/16/1964	5/17/1919 DODDRIDGE	EQUITABLE GAS COMPANY	1064 GR	ABD-GW	39.1700	-80.8063 6107 E M GASTON	3/23/1919	4/7/1919 WEST VIRGINIA	1997 31177
47017039560001		11/21/2004 DODORIDGE	TERM ENERGY	945 K8	GAS-WO	39.1721	-80.8166 3 CASSIOY	9/24/2004 BIG INJUN	10/6/2004 WEST VIRGINIA	5017 03956
47017015180000		8/29/1968 DODDRIDGE		905 GR	GAS	39.1591	-80.8150 1 DONALO LEE GRIMM	7/15/1968	7/30/1968 WEST VIRGINIA	2007 01518
47017015340000		12/1/1968 DODDRIDGE		1248 GR	GAS	39.1523	-80.8122 3 EU 8 LEESON HEIRS	10/17/1968	11/1/1968 WEST VIRGINIA	2142 01534
47017733000000			HOPE NATURAL GAS	GR	UNKWN GAS	39.1630 39.1802	-80.8165 7036 SAM GASTON -80.8222 4768 MAXWELL	c in trans	WEST VIRGINIA	0 73300
47017020720000		7/16/1920 DODDRIDGE		1017 GR GR	UNKWN	39.1458	-80.7737 M 5 VAN HORN	6/9/1920	6/24/1920 WEST VIRGINIA WEST VIRGINIA	1850 02072
47017733450000 47017312060000	1/1/1967		ASH & CHAPMAN CONSOLIDATED GAS SUPPLY CORPORATION	1193 GR	ABD-GW	39.1413	-80.7681 5288 G W SMITH	5/26/1918	6/10/1918 WEST VIRGINIA	0 73345 2808 31206
47017312080000	1) 1/ 1307		UNKNOWN	GR	UNKWN	39.1463	-80.7946 JESSE WILLIAMS	3,23,2323	WEST VIRGINIA	0 73317
47017733110000		DODDRIDGE		GR	UNKWN	39.1632	-80.7937 4749 C GASTON		WEST VIRGINIA	0 73311
47017037880000		4/17/1990 DODDRIDGE	ENERGY CORPORATION OF AMERICA INC	1349 KB	GAS	39.1824	-80.7931 23 BLAUSER W B MAXWELL	3/11/1990 ALEXANDER	5412 3/21/1990 WEST VIRGINIA	5417 03788
47017049380000		6/5/2005 DODDRIDGE		1028 GR	GAS	39.1662	-80.7919 4 ADAMS A	2/28/2005 GORDON	3000 5/23/2005 WEST VIRGINIA	2581 04938
47017049360000		5/20/2005 DDDDRIDGE		1247 GR	GAS	39.1641	-80.7893 2 ADAMS A	1/24/2005 GORDON	3000 5/11/2005 WEST VIRGINIA	2807 04936
47017002070000			DIVERSIFIED RESOURCES INCORPORATEO	883 GR	GAS	39.1471	-80.7910 7 JESSIE WILLIAMS 3	8/17/1954	9/1/1954 WEST VIRGINIA	1331 00207
47017013170000			EQT PRODUCTION COMPANY	1057 GR	GAS	39.1416	-80.7845 PO-4709 F L LODGE	1/22/1919	2/6/1919 WEST VIRGINIA	1929 01317
47017012910000			MEADOWS 5 L JR PRODUCTION COMPANY ANIA RESOURCES	1D17 GR GR	10&1G PSEUDO	39.1407 39.1334	-80.7834 2-RE THURMAN SPURGEON -80.7876 6 LEWIS MAXWELL HEIRS	7/18/1965	8/2/1965 WEST VIRGINIA WEST VIRGINIA	2021 01291 0 01249
47017012490000 47017023860000			EQT PRODUCTION COMPANY	990 GR	GAS	39.1382	-80.7850 4244 F L LODGE	12/11/1913	12/26/1913 WEST VIRGINIA	2604 02386
47017732630000			EQUITABLE RESOURCES EXPLORATION INC	GR	UNKWN	39.1700	-80.7873 4663 M & F GASTON		WEST VIRGINIA	0 73263
47017018290000	1/10/1985		MURVIN OIL COMPANY	1022 GR	ABD-GW	39.1787	-80,7921 4 W BRENT MAXWELL HRS	9/4/1976 BIG INJUN /SO/	2000 9/14/1976 WEST VIRGINIA	1955 01829
47017047400000		10/15/2003 DODDRIDGE		1215 GR	GAS	39.1578	-80.7835 2 HICKMAN	6/17/2003 ALEXANOER	5600 10/4/2003 WEST VIRGINIA	5347 04740
47017050310000			SPENCER ENTERPRISES	965 GR	GAS	39.1561	-80.8070 1-A GRIMM	6/10/2005 BIG INJUN	2300 6/20/2005 WEST VIRGINIA	2070 05031
47017020610000		4/18/1919 DODDRIDGE		905 GR	GAS	39.1453	-80.7967 4696 LEESON	3/14/1919	3/29/1919 WEST VIRGINIA	1424 02061
47017037130000		5/12/1989 OODDRIDGE		977 KB	GAS	39.1715	-80.8092 1 SCHWARTZMAN	4/21/1989 ALEXANDER	5200 5/1/1989 WEST VIRGINIA	5065 03713
47017303370000	10/10/1940		PITTSBURGH & W VA GAS	1084 GR 972 GR	ABD-GW ABD-GW	39.1537 39.1609	-80.8063 4572 W BRENT MAXWELL -80.8048 6111 GASTON R J	5/9/1917 6/12/1920 GORDON	5/24/1917 WEST VIRGINIA	1958 30337
47017021140000 47017733080000	9/24/2015		EQT PRODUCTION COMPANY UNKNOWN	9/2 GR	UNKWN	39.1694	-80.7991 4652 C GASTON	6/12/1920 GORDON	7/12/1920 WEST VIRGINIA WEST VIRGINIA	2400 02114 0 73308
47017704330000			CARTER OIL & GAS	GR	PSEUDO		-80.8055 1 S M GASTON		WEST VIRGINIA	0 70433
47017732800000	_		HOPE NATURAL GAS	GR	UNKWN	39.1803	-80.8192 5885 MABEL HAUGHT ET AL	_	WEST VIRGINIA	0 73280
47017035900000	₹ <u>₹</u>	100 1987 DODDRIDGE	TERM ENERGY	871 KB	GAS	39.1673	-80.8190 87-3-15 GASKINS SAM	9/8/1987 WEIR/SD/ *	2100 9/18/1987 WEST VIRGINIA	4951 03590
47017039060000	≥ ≥	10/18/1991 DODDRIDGE	ENERGY CORPORATION OF AMERICA INC	1108 KB	GAS	39.1611	-80.8162 B&M/HICKMAN1 HICKMAN LAURA ETAL	9/22/1991 ALEXANDER	5229 10/2/1991 WEST VIRGINIA	5255 03906
47017701010000	₽ AR	- DODUKIUGE	CARTER DIE COMPANT	GR	PSEUDO	39.1699	-80.8120 1 GASTON E M		WEST VIRGINIA	0 70101
47017038730000	w		ENERGY CORPORATION OF AMERICA INC	885 KB	GAS	39.1709	-80.8221 1 HAUGHT FOREST ETAL	5/3/1991 ALEXANDER	5020 5/13/1991 WEST VIRGINIA	5050 03873
47017039090000	₩ ⊨=		ENERVEST OPERATING LLC	981 GR	GAS	39.1307	-80.7630 1 LOWTHER MARIE -80.7643 4404 H G SPURGEON	12/8/1992 ALEXANDER	5500 12/18/1992 WEST VIRGINIA	5299 03909
47017733490000 55 47017733690000	ä 🛌	DODDRIDGE	UNKNUWN HINKNOWN	GR GR	UNKWN	39.1355 39.1535			WEST VIRGINIA WEST VIRGINIA	0 73349
4/01//33690000	3	P P DOUBLINGE	OMMOTER	GK	CHANGE	33,1335	CO., DOS DOS JESSE TITOUNIVIS		WEST VINGINIA	0 73369
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47017733440000		DODDRIDGE		GR	UNKWN	39.1397	-80.7733 1 RAY CONLEY	3/10/10/1	WEST VIRGINIA	0 73344
47017013210000		9/1/1961 DODDRIDGE		GR	UNKWN	39,1581	-80.7772 5 S L CHAPMAN	7/18/1961	8/2/1961 WEST VIRGINIA WEST VIRGINIA	0 01321
47017004680000			ASH & CHAPMAN	GR	UNKWN	39.1482	-80.7757 1 ROY RUPPERT HEIRS	5/17/1962	6/1/1962 WEST VIRGINIA	0 00468
47017008350000	7/5/1966	7/1/1962 DODDRIDGE		1068 GR	ABDDGW	39.1478	-80,7761 1 H C CHAPMAN	4/17/1948	5/2/1948 WEST VIRGINIA	2084 00835
47017001850000			EQT PRODUCTION COMPANY	1103 GR	GAS ABD-GW	39.1510 39.1349	-80.7802 4708 F L LODGE 3 -80.7667 1 SMITH HARRY M	7/28/1971 UNKNOWN	8/7/1971 WEST VIRGINIA	2008 C0185 2690 01631
47017016310000	1/1/1974	8/11/1971 OODDRIDGE		1007 GR	GAS	39.1501	-80,7947 1 JESSIE WILUAMS	8/17/1946	9/1/1946 WEST VIRGINIA	2321 00168
47017001680000			DIVERSIFIED RESOURCES INCORPORATED	905 GR 1066 GR	ABD-GW	39.1695	-80.7895 4653 GASTON MARY V	8/4/1926 BIG INJUN	9/4/1926 WEST VIRGINIA	1944 02050
47017020500001	5/24/2006		EQT PRODUCTION COMPANY	873 GR	OIL	39.1449	-80.7873 6213 F L LODGE	1/15/1967	1/30/1967 WEST VIRGINIA	1781 01429
47017014290000			EQT PRODUCTION COMPANY	GR	UNKWN	39.1741	-80.7917 4666 C GASTON	1,13,1307	WEST VIRGINIA	0 73264
47017732640000		DODDRIDGE		1071 GR	OIL	39.1471	-80.7850 6210 F L LODGE	8/17/1966	9/1/1966 WEST VIRGINIA	1998 01367
47017013670000		2/8/1981 DODDRIDGE	EQT PRODUCTION COMPANY	1163 KB	D&A	39.1398	-80.7906 1 LODGE F L	1/25/1981 BENSON /SD/	4500 2/4/1981 WEST VIRGINIA	2250 02888
47017028880000			ENERGY CORPORATION OF AMERICA INC	1349 KB	GAS	39.1743	-80.7879 BLAUSER/MAXWELL MAXWELL W B HEIRS ETAL	9/14/1991 ALEXANDER	5458 9/24/1991 WEST VIRGINIA	5534 03907
47017039070000		DODDRIDGE		GR	UNKWN	39.1748	-80,7971 1 M J LEESON	372 (7232) (1232)	WEST VIRGINIA	0 73273
47017732730000		DODDRIDGE		GR	PSEUDO	39.1645	-80.7986 4684 GASTON		WEST VIRGINIA	0 02057
47017020570000		DODDRIDGE		GR	UNKWN	39.1517	-80.7976 4660 F MAXWELL		WEST VIRGINIA	0 73316
47017733160000 47017732720000		OODDRIDGE		GR	UNKWN	39.1786	-80.7963 4579 M J LEESON		WEST VIRGINIA	0 73272
47017732720000			EQT PRODUCTION COMPANY	1252 KB	GAS	39.1817	-80,7991 WV 513171 GASTON S E	7/31/2012 MARCELLUS /SH/	8/30/2012 WEST VIRGINIA	11557 06112
47017020390000	5/5/2006		EQUITABLE PRODUCTION COMPANY	1037 GR	ABD-GW	39.1719	-80,7953 4532 GASTON	1/27/1917 BIG INJUN	2/27/1917 WEST VIRGINIA	1795 02039
47017733150000	3/3/2000	DODDRIDGE		GR	UNKWN	39.1593	-80.8055 DONALD L GRIMM	• •	WEST VIRGINIA	0 73315
47017021130000	9/30/2015		EQT PRODUCTION COMPANY	1083 GR	ABD-GW	39.1689	-80.8044 6110 GASTON	2/29/1920 BIG INJUN	3/31/1920 WEST VIRGINIA	2485 02113
47017023110000	3/30/2013		CDNSOL GAS COMPANY	1018 KB	OIL	39,1778	-80.8240 1 HUSK HOWARD	1/12/1979 WEIR /SD/	2500 1/22/1979 WEST VIRGINIA	2543 02311
47017307880000	9/23/1949		PITTSBURGH & W VA GAS	1140 GR	ABD-GW	39.1812	-80.8180 4750 W B MAXWELL 3	2/29/1920	3/15/1920 WEST VIRGINIA	2023 30788
47017032420000	5/23/25	4	CONSOL GAS COMPANY	1039 KB	GAS	39.1750	-80.8238 2 MUTSCHELKNAUS ET AL	9/3/1983 ALEXANDER	5100 9/13/1983 WEST VIRGINIA	5534 03242
47017013060000			PENNZOIL COMPANY	GR	PSEUDO	39.1565	-80.7776 4 S L CHAPMAN		WEST VIRGINIA	0 01306
47017014710000			BROOME EO INCORPORATED	1036 GR	10&1G	39.1344	-80.7670 2 MELVILLE CONLEY	7/18/1967	8/2/1967 WEST VIRGINIA	2653 01471
47017001790001	9/9/1947	8/1/1947 DODDRIDGE		973 GR	D&A	39.1498	-80.7731 5283 DECO VAN HORN	6/17/1947 •	7/2/1947 WEST VIRGINIA	2600 00179
47017732590000	-, -,	DODDRIDGE	UNKNOWN	GR	UNKWN	39.1670	-80.7796 49 \$ W STOUT ET AL		WEST VIRGINIA	0 73259
47017014090000		10/1/1966 DODDRIDGE	JAY-BEE OIL & GAS INC	1219 GR	10&1G	39.1384	-80.7696 2 MELVILLE CONLEY	8/17/1966	9/1/1966 WEST VIRGINIA	3000 01409
47017004700000		DODDRIDGE	UNKNOWN	GR	PSEUDO	39.1508	-80.7729 3 ROY RUPPERT HEIRS		WEST VIRGINIA	0 00470
47017035820000		10/28/1987 DODDRIDGE	CONSOL GAS COMPANY	1020 KB	GAS	39.1482	-80,7771 3000 THURMAN SPURGEON	9/29/1987 ALEXANDER	5500 10/9/1987 WEST VIRGINIA	5343 03582
47017049350000		3/5/2005 DODDRIDGE	KEY OIL COMPANY	1203 GR	GAS	39.1665	-80.7884 1 ADAMS A	1/24/2005 GORDON	3000 2/23/2005 WEST VIRGINIA	2770 04935
47017732620000		DODORIDGE	UNKNOWN	GR	UNKWN	39.1694	-80.7884 M & F GASTON		WEST VIRGINIA	0 73262
47017038320000		9/20/1990 DODDRIDGE	ENERGY CORPORATION OF AMERICA INC	1102 KB	GAS	39.1545	-80,7920 5 MERT/WILLIAMS	8/25/1990 ALEXANDER	5270 9/4/1990 WEST VIRGINIA	5283 03832
47017020680000		3/2/1920 DODDRIDGE	EQT PRODUCTION COMPANY	1035 GR	GAS	39.1668	-80.7942 4744 GASTON C	12/3/1919 BIG INJUN	1/3/1920 WEST VIRGINIA	1833 02068
47017015380000		3/10/1969 DODDRIDGE	MEADOWS S L JR PRODUCTION COMPANY	1035 GR	OIL	39.1393	-80.7822 1 JOSHUA ADAMS	12/22/1968 UNKNOWN	1/1/1969 WEST VIRGINIA	2010 01538
47017013160000			EQT PRODUCTION COMPANY	1131 GR	OIL	39.1503	-80.7811 6208 W J HICKMAN 2	9/13/1965	9/28/1965 WEST VIRGINIA	2003 01316
47017018810000			EQT PRODUCTION COMPANY	908 GR	OIL	39.1416	-80.7882 6230 F L LODGE	3/17/1978 BIG INJUN /SD/	1880 3/27/1978 WEST VIRGINIA	1893 01881
47017016230000	1/1/1974	8/8/1971 DODDRIDGE		1226 GR	ABD-OW	39.1565	-80.7949 4/1-ADAMS/ MAXWELL W B	6/30/1971 UNKNOWN	7/10/1971 WEST VIRGINIA	2700 01623
47017733210000		DODDRIDGE		GR	UNKWN	39.1516	-80,8083 GEORGIA MCKAINN	240/2012 1140/2011/2011	WEST VIRGINIA	0 73321
47017061140000			EQT PRODUCTION COMPANY	1220 GR	GAS	39.1815	-80.7992 WV 513174 GASTON S E	8/10/2012 MARCELLUS /SH/ 9/29/1987 DEVONIAN /SH/	8/30/2012 WEST VIRGINIA 5250 10/9/1987 WEST VIRGINIA	12834 06114
47017035850000			ARIES PETROLEUM CORPORATION	930 KB	201L	39.1533 39.16 9 4	-80.8056 1 PRUNTY EDWARD D -80.8105 6106 GASTON	9/29/1987 DEVONIAN /SH/	WEST VIRGINIA	5258 03585
47017021100000	6/21/1988		EQUITABLE GAS COMPANY	906 GR	ABD-GW D&A-OG	39.1694 39.1686	-80,8105 6106 GASTON -80,8193 1 M L HAUGHT	4/17/1962	5/2/1962 WEST VIRGINIA	1732 02110 2362 00782
47017007820000		6/1/1962 DODDRIDGE		883 GR	GAS	39.1572	-80.8134 4593 M S GASTON	8/20/1917	9/4/1917 WEST VIRGINIA	1429 00196
47017001960000		9/27/1917 DODDRIDGE	HOPE NATURAL GAS	831 GR GR	UNKWN	39.1372	-80.8140 MABEL HAUGHT ET AL	9,29,2321	WEST VIRGINIA	0 73279
47017732790000		DODUKIDGE	HUPE NATURAL GAS	1012.0000	UNK	-80.8015	39.1659		WEST WINGHIA	-1490,0000 00025
4701700025				842.0000	O&G	-80.8221	39.1719			-917.0000 00189
4701700189				835.0000	0&G	-80.8218	39.1707			-900.0000 00190
4701700190				882.0000	ORY	-80.8219	39.1693			-868,0000 00193
4701700193 4701700194				885.0000	GAS	-80.8234	39.1729			-865.0000 00194
4701700194				1065.0000	P&A	-80.8050	39.1709			-1418.0000 CD197
4701700197				1008.0000	DRY	-80.7749	39,1301			-1072.0000 01325
4701701323				0.0000	GAS	-80.8087	39,1516			-1554,0000 02036
4701702038				0.0000	GAS	-80.7981	39.1682			-1907.0000 02047
4701702047				0.0000	GAS	-80.7876	39.1695			-1944.0000 02048
4701702051				0.0000	GAS	-80.7980	39.1521			-1801.0000 02051
4701702067				0.0000	GAS	-80.8257	39.1770			-1957.0000 02067
4701702109				0.0000	GAS	-80.8185	39.1790			-1898.0000 02109
4701704939				1204.0000	GAS	-80.7914	39.1686			-1567.0000 04939
4701704958				911.0000	GAS	-80.771 9	39.1489			-1687.0000 O4958
4701705933				1200.0000	GAS	-80.7821	39.1675			-1784.0000 05933

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1 2019
WV Department of Environmental Protection





WW-6B (04/15)

API NO. 47-470-1706885

OPERATOR WELL NO.024/499/2019

Well Pad Name: 0XF43

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

1) Well Operator: EQT Prod	uction Company	306686	Doddridge	South West/Cove	Oxford
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: O	XF43H34	Well Pac	Name: OXF4	3	
3) Farm Name/Surface Owner:	Cathy Jean Wetzel,	et. al. Public Roa	d Access: Rt.	20	:
4) Elevation, current ground:	1,229' (as-built) El	evation, proposed	post-constructi	on: 1,229'	
5) Well Type (a) Gas X Other	Oil	Unde	erground Storag	ge	
	allow X	Deep			
Н	orizontal X				
6) Existing Pad: Yes or No Yes	es		-		
7) Proposed Target Formation(Target formation: Marcellus; Depth:					
8) Proposed Total Vertical Dep	oth: 6,666'				
9) Formation at Total Vertical		3		_	
10) Proposed Total Measured I	Depth: 14,830'				
11) Proposed Horizontal Leg I	ength: 5,626'				
12) Approximate Fresh Water	Strata Depths:	70', 221', 307', 3	382'		
13) Method to Determine Fresh	h Water Depths:	By offset wells			
14) Approximate Saltwater De	pths: N/A				
15) Approximate Coal Seam D	epths: 322'				
16) Approximate Depth to Pos	sible Void (coal m	ine, karst, other):	None reported	<u> </u>	
17) Does Proposed well location directly overlying or adjacent to		ms Yes	No	X	
(a) If Yes, provide Mine Info	: Name:	·			CEIVED
() =, F	Depth:			Office o	f Oil and Gas
	Seam:	-		MAR	1 1 2019
	Owner:			WV D	epartment of
					ental Protection

API NO. 47-4701706885 OPERATOR WELL NO 0241912019

Well Pad Name: OXF43

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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	26	New	A-500	85.6	40	40	49 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	532	532	546ft^3 / CTS
Coal			·				
Intermediate	9 5/8	New	A-500	40	5291	5291	2094ft^3 / CTS
Production	5 1/2	New	P-110	20	14830	14830	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							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	.312	884	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							·
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 A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:	
Sizes:	RECEIVED
Depths Set:	Office of Oil and Gas

WW-6B	
(10/14)	

Α	PI NO. 47- 017	صا0	04/19/2019 88 5
	OPERATOR WELL	NO.	OXF43H34
	Well Pad Name	OXF43	1

19) Describe proposed well wor	k, including the drilling and	piugging back of any	pilot hole:

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 3989'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,112 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of proppant per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): No additional
- 22) Area to be disturbed for well pad only, less access road (acres): No additional
- 23) Describe centralizer placement for each casing string:
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers— One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

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

Conductor: Class A no additives Surface (Type 1 Cement): 0-3% Catcium Chloride, Used to speed the setting of cement signies

Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries.

Lead (Class A Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender) Tail (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation, 60 % Calculm Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface. Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes 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.



January 29, 2019

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

Re: Casing on OXF43

Dear Mr. Brewer,

EQT is requesting the 13-3/8" surface casing be set at 532' KB, 150' below the deepest fresh water. We will set the 9-5/8" intermediate string at 5291' KB, 50'below the base of the Alexander formation to shut off any water production from the Upper Devonian sands.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan

Landman - Permitting

Enc.

Well OXF43H34

EQT Production

Oxford Quad Doddridge County, WV Azimuth 336
Vertical Section 6391
Enertia # 516244

Note: Diagram is not to scale Deepest Fresh Water: 382' Casing and Cementing Top Base Intermediate TVD Type Conductor Surface Production TVD **Formations** 17 1/2 12 3/8 8 1/2 Hole Size, In. 30 Conductor 40 Casing Size, OD In. 26 13 3/8 9 5/8 5 1/2 Casing Wall Thickness, In. 0.312 0.380 0.395 0.361 Base Fresh Water 382 532' 5,291 14,830' Depth, MD 40' 85.6# 54.5# 40# 20# Weight Surface Casing 532 A-500 J-55 A-500 P-110 Grade New New New New New or Used Base Red Rock 829 2,700 3,950 12.640 Burst (psi) 1378 1103 - 1143 Maxton A / Type 1 A/H Cement Class A A / Type 1 1979 - 2047 **Big Lime** Cement Yield 1.18 1.19 1.123 / 2.098 1.19 2091 - 2123 Big Injun 2265 - 2391 Weir Top of Cement (Planned) Surface Surface Surface 500' above top Producing Zone - 2547 2465 Gantz Displacement Displacement Displacement Displacement Method 2547 - 2604 Fifty foot Est. Volume (cu ft) 49 546 2,094 #N/A Thirty foot 2645 - 2681 Calcium Carbonate, Fluid Loss, - 2736 Gordon 2687 Extender, Dispersent, Viscosifier, 2787 - 2854 Forth Sand Calcium Possible Additives N/A Calcium Chloride Defoamer, POZ, Bonding Agent, 2967 - 3038 Bayard Chloride Retarder, Anti-Settling/Suspension Warren 3301 - 3367 Agent 3367 - 3872 Speechley 3872 - 4230 Balltown A Riley 4470 - 4846 4846 - 4940 Benson KOP @ 5148 - 5241 3,989 Alexander

5291 Intermediate Casing 6324 - 6474 Sonyea Middlesex 6474 -6464 Genesee 6464 - 6573 6573 - 6615 Geneseo Tully 6615 - 6628 - 6646 Hamilton 6628 - 6702 Marcellus 6646 **Production Casing** 6666 MD 6702 Onondaga

Land curve @ 6,666' TVD 9,204' MD

Est. TD @

5,626' Lateral

6,666'

TVD 14,830' MD

Proposed Well Work:

Drill and complete a new horizontal well in the Marcellus formation.

Drill the vertical to an approximate depth of 3989'.

Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

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Environmental Protection

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well **OXF43H34**

v 2016.2 Enertia#

516244

Drilling Objectives: County:

Quad:

Marcellus

Doddridge Oxford

1242 KB

1229 GL Easting:

Elevation: Surface location Northing: Landing Point Northing: Toe location Northing:

241942.48 243105.55 248245.01 336 Degrees

Easting:

Easting:

1633357.51 1636701.91 1634413.76

TVD: 6666 Recommended LP to TD: 5,626

Recommended Azimuth Proposed Logging Suite:

No pilot hole on this pad, formation depths from log run on a different OXF43 and OXF45 pads Please have gamma tool behind bit and mudloggers rigged up on location by 6322.5' TVD.

Recommended Gas Tests:

1800, 2050, 2600, Intm Csg. Pt., 3400, 4900, 5250, KOP, (Gas test at any mine void) Gas test during any trip or significant downtime while drilling the lateral section.

1	The state of the s			
	382	FW @ 70,221,307,382, ,	21	41
321	322 Coal	No past, present, or permitted mining.	123	179
1103	1143 Sandstone	No SW present in shallow offset wells.	181	211
1979	2047 Limestone			411
2091	2123 Sandstone	Storage is NOT of concern at this location		451
2265	2391 Sandstone			532
2465				716
2465	2547 Silty Sand		87.7	829
2547	2604 Silty Sand		956	1073 Base of
2645	2681 Silty Sand			Red Ro
2687	2736 Silty Sand			
2787	2854 Silty Sand			
2967	3038 Silty Sand			
3301	3367 Silty Sand			
3367	3872 Silty Sand			
3872	4230 Silty Sand		100000	
4470	4846 Silty Sand		RECE	EIVED
4846	4940 Silty Sand			
5148	5241 Silty Sand	Base of Offset Well Perforations at 5207' TVD	Office of C	mand Gas
5291				
5241	6324 Gray Shales and Silts		MADT	1 2010
6324	6474 Gray shale		MAN	1 2019
6474	6464 Shale			
6464	6573 Gray shale interbedded		100 C 100 C 100 C	
6573	6615 Black Shale		WV Depa	rtment of
6615	6628 Limestone		Environment	al Drotostion
6628	6646 Gray shale with some		- in printerio	ai Frotection
6646	6702 Black Shale			
6677	6680 Limestone			
6666		Start Lateral at 6666'		
6686	6689 Limestone			
6702	Limestone			
	1979 2091 2265 2465 2465 2465 2547 2645 2547 2645 2687 2787 2967 3301 3367 3872 4470 4846 5148 5291 5241 6324 6474 6464 6573 6615 6628 6646 6677 6666	1979 2047 Limestone 2091 2123 Sandstone 2265 2391 Sandstone 2465 2465 2547 Silty Sand 2547 2604 Silty Sand 2645 2681 Silty Sand 2687 2736 Silty Sand 2787 2854 Silty Sand 2967 3038 Silty Sand 3301 3367 Silty Sand 3367 3872 Silty Sand 3367 3872 Silty Sand 3470 4846 Silty Sand 4470 4846 Silty Sand 45148 5241 Silty Sand 5148 5241 Silty Sand 5148 5241 Silty Sand 5291 5241 6324 Gray Shales and Silts 6324 6474 Gray shale 6474 6464 Shale 6464 6573 Gray shale interbedded 6573 6615 Black Shale 6615 6628 Limestone 6628 6646 Gray shale with some 6646 6670 Black Shale 6677 6666	1979	1979

Target Thickness	57 feet	
Max Anticipated Rock Pressure	2951 PSI	

Comments:

Note that this is a TVD prog for a horizontal well (azimuth of 336 degrees; target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.

Intermediate casing point is recommended 50' beneath the Alexander to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per

The estimated landing point TVD is 6666', rig geologist may adjust landing point. After the well is landed, drill to reported bed dips/ geologists' recommendation. The geologic structure is unknown at this time

LATERAL DRILLING TOLERANCES

Deviate as little as possible to the left or right of the planned wellbore. Mapview - Lateral: DO NOT EXTEND beyond recommended wellbore to avoid leaseline. Mapview - TD:

Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:		532	150' below freshwater
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:		5291	50' below Alexander
Production:	CSG OD	5 1/2	CSG DEPTH:	@ TD		



January 29, 2019

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

Re: Casing on OXF43

Dear Mr. Brewer,

EQT is requesting the 13-3/8" surface casing be set at 532' KB, 150' below the deepest fresh water. We will set the 9-5/8" intermediate string at 5291' KB, 50'below the base of the Alexander formation to shut off any water production from the Upper Devonian sands.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan

Landman - Permitting

Enc.

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Office of Oil and Gas

MAR 1 1 2019

Well

OXF43H34

EQT Production Oxford Quad Doddridge County, WV

Azimuth 8391 Vertical Section Enertla# 516244

Mate: Diseases to not to another

late: Diagram is not to scale								
	Top Base			Casing and Cementing			Deepest Fresh Water	er: 382°
Formations	TVD TVD			Type	Conductor	Surface	Intermediate	Production
Conductor	40		1116	Hole Size, In.	30	17 1/2	12 3/8	8 1/2
				Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
Base Fresh Water	382	- 111	111	Casing Wall Thickness, In.	0.312	0.380	0.395	0.361
		: 11	111	Depth, MD	40'	532'	5,291	14,830
Surface Casing	532	4		Weight	85.6#	54.5#	40#	20#
5.7.5.77.8			1 1	Grade	A-500	J-55	A-500	P-110
Base Red Rock	829	11		New or Used	New	New	New	New
Maxton	1103 - 1143	1.1	1 1	Burst (psi)	1378	2,700	3,950	12,640
Big Lime	1979 - 2047	11	11	Cement Class	A	A/Type 1	A/Type 1	A/H
Big injun	2091 - 2123	- 11	11	Cement Yield	1.18	1.19	1.19	1.123 / 2.098
Weir Gantz	2265 - 2391 2465 - 2547	- 11		Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zon
Flity foot	2547 - 2604	- 11	1.1	Method	Displacement	Displacement	Displacement	Displacement
Thirty foot	2645 - 2681	1.1	1.1	Est. Volume (cu ft)	49	545	2.094	#N/A
Gordon	2687 - 2736	1.1	11					Calcium Carbonate, Fluid Los
Forth Sand Bayard Warren Speechley Balltown A	2787 - 2854 2967 - 3038 3301 - 3367 3367 - 3872 3872 - 4230			Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Extender, Dispersent, Viscosifi Defoamer, POZ, Bonding Age Retarder, Anti-Scitling/Suspens Agent
Riley Benson Alexander Intermediate Casing Sonyea Middlesex Genesee Genesee Tully Hamilton Marcellus Production Casing Onendaga	4470 - 4846 4846 - 4940 5148 - 5241 5291 6324 - 6474 6474 - 6464 6464 - 6573 6573 - 6615 6615 - 6628 6628 - 6646 6646 - 6702 6666 MD		KOP @ 3,989					
4,07,02	,,,,,	Land o	urve @ 6,666' TVD 9,204' MD			Est. TD @	6,666° 14,83	TVD

Proposed Well Work;

Drill and complete a new horizontal well in the Marcellus formation.

Drill the vertical to an approximate depth of 3989'.
Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

5,626' Lateral



API	Num	her	47 -
	T. A CHILL	CCI	71

Operator's Well No. OXF43H34 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 complete the proposed well work? Yes V	
Will a pit be used? Yes No 🗸	
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:	
Land Application	
Underground Injection (UIC Permit Number 0014, 8462, 4037	
Reuse (at API Number Various Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain	
Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic 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 Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible to obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official (Typed Name) John Zayetchen	15 2019
Company Official (Typed Name) John Zayatchan	MAR
Company Official Title Landman - Permitting	
Subscribed and sworn before me this 8 day of March , 20 19 Notary Public OFFICIAL SEA	
My commission expires 8/21/2022 NOTARY PUBL BRATE OF WEST VII. AMY L TODAY AMY L TODAY BRIDGEPORT, WA	107
115 PROFESSIONAL BRIDGEPORT, WW My Commission Expires Aug	26330 4st 21, 202

w Pental Protection

Form WW-9		On create als 1	Vell No. OXF43H34	04/19/20
EQT Production Co	mpany	Operator's v	veii No. On toriot	
Proposed Revegetation Trea	tment: Acres Disturbed N	o additional disturbance Prevegetation pl	Н	
Lime 3	Tons/acre or to corre	et to pH 6.5		
Fertilizer type Gra	nular 10-20-20			
Fertilizer amount_1	/3	lbs/acre		
Mulch 2		_Tons/acre		
		Seed Mixtures		
Te	emporary	Perma	nent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
KY-31	40	Orchard Grass	15	
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			
Attach: Maps(s) of road, location, pi provided). If water from the acreage, of the land applicati	pit will be land applied, inc	d application (unless engineered plans inclushed blude dimensions (L x W x D) of the pit, and	ding this info have bee d dimensions (L x W),	en and area in
Photocopied section of invol	ved 7.5' topographic sheet.			
	7			
Plan Approved by:	19h	<u> </u>		
Comments:				

Lime 3	Tons/acre or to corre	ct to pH 6.5		
Fertilizer type Gra	anular 10-20-20			
Fertilizer amount_	1/3	lbs/acre		
Mulch 2	1007	_Tons/acre		
		Seed Mixtures		
To	emporary	Perma	nent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
KY-31	40	Orchard Grass	15	
Alsike Clover	5	Alsike Clover	5	_
Annual Rye	15			
				_
Attach:				
Maps(s) of road, location, provided). If water from the	it and proposed area for lan	d application (unless engineered plans included the dimensions (L x W x D) of the pit, and	ding this info have been	n and area in
acreage, of the land applicat	ion area			
Photocopied section of invol	lved 7.5' topographic sheet.			
				
Plan Approved by:	19h			
Comments:				
				<u>~~~</u>
				Office of Oil and Gas MAR 1 5 2019
•		THE RESIDENCE OF THE SECOND STATE OF THE SECON	······	Office Office
				Ţ.
Title: D: HGes	Inspector	Date: 3/11/19		
Field Reviewed? () Yes () No		

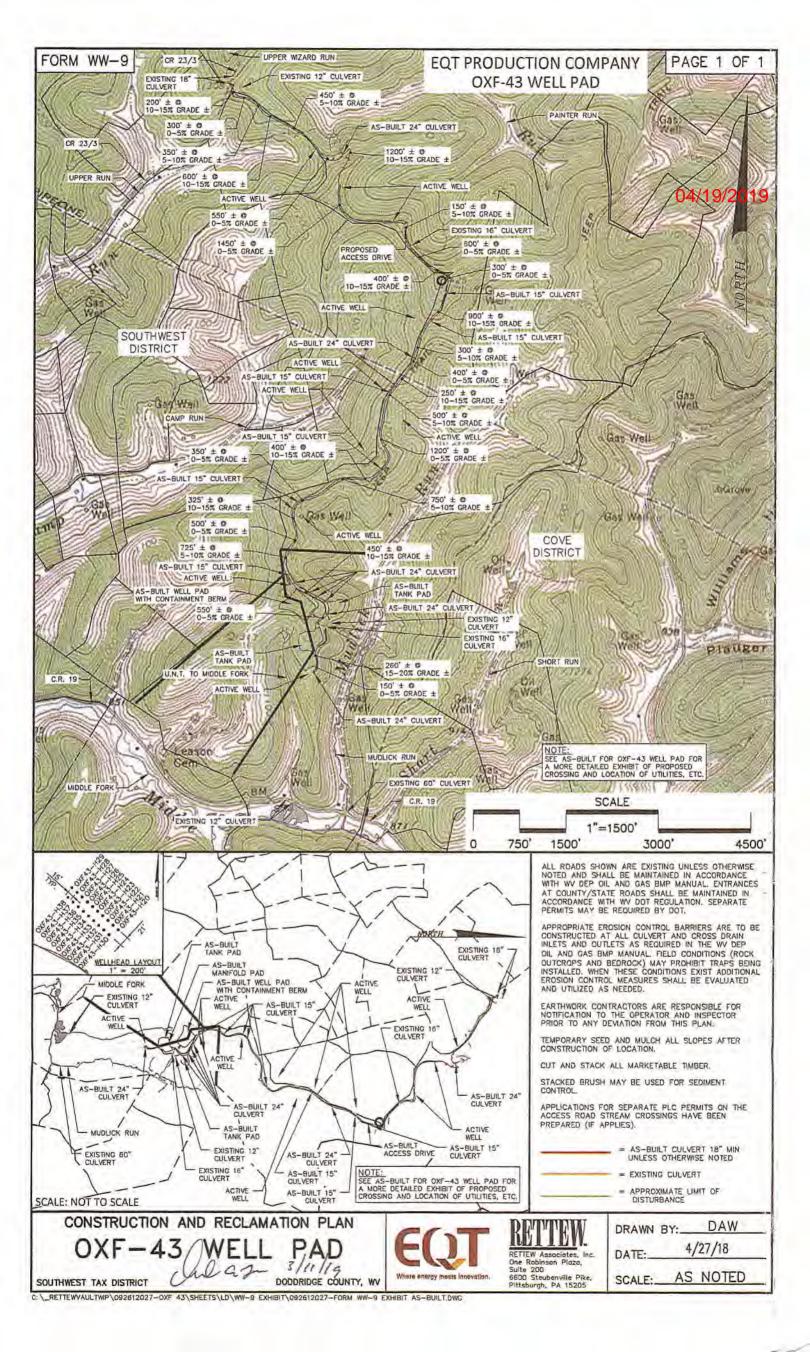
WW-9 Attachment

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.





Site Specific Safety and Environmental Plan

EQT
OXF43 Pad
West Union
Doddridge County, WV

516238 516240 OXF43H34 CONFUSH30) (OXF43H31)	For Wells: OxF43H35
Date Prepared: February 21, 2018 EQT Production Lawman Permitting Title 316119 Date	WV Oil and Gas Inspector E: 1 + Gas Inspector Title 3/11/19 Date

WW-6A1 (5/13)

Operator's Well No. OXF43H34

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

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

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

Lease Name or

Number Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached

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Office of Oil and Gas

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

WV Department of

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

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

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

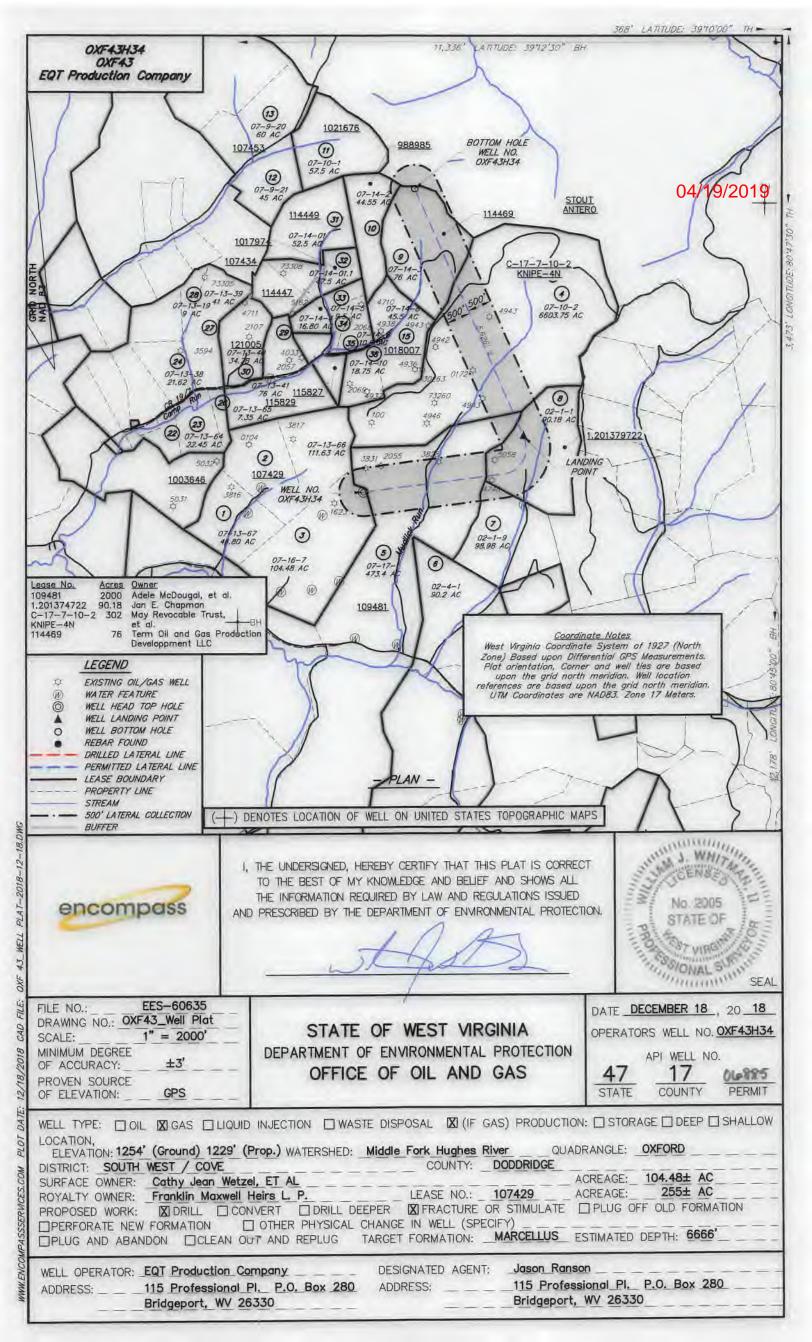
Well Operator: EQT Production Company

By: John Zavatchan

Its: Landman - Permitting

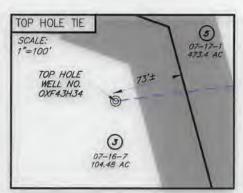
WW-6A1	WW-6A1 attachment		Operator's Well No.	OXF43H34
Lease No.	. Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty Book/Page
107429	Franklin Maxwell Heirs L.P. (current royalty owner) W. Brent Maxwell, et al (original	ty owner)		#
	lessor)		Fisher Oil Co.	LB23/337
	Fisher Oil Co.		The Philadelphia Company of West Virginia	LB32/120
	The Philadelphia Company of West Virginia		Pittsburgh & West Virginia Gas Company	DB87/90
	Pittsburgh & West Virginia Gas Co.		Equitable Gas Company	DB121/303
	Equitable Gas Company		Equitrans, Inc.	LB154/475
	Equitrans, Inc.		Equitrans, L.P.	DB329/645
	Equitrans, L.P.		Equitable Production-Eastern States, Inc.	LB 192/19
	Equitable Production-Eastern States, Inc.		Equitable Production Company	CB281/346
	Equitable Production Company		EQ Production Company	CB28 /346
109481	Adele McDougal, et al. (currenty royalty owner)	wner)		
	Jackson Leeson, et al. (original lessor)		The Philadelphia Co. of West Virginia	LB21776
	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.		Equitrans, L.P.	DB329/645
	Equitrans, L.P.		Equitable Production-Eastern States, Inc.	LB 192/19
	Equitable Production-Eastern States, Inc.		Equitable Production Company	CB281/346
	Equitable Production Company		EQT Production Company	CB281/346
1.20138	Jan E. Chapman (current royalty owner)			:
	Edwin H. Chapman		Union Oil and Gas Co.	LB 69/72
	Union Oil and Gas Co.		Wm. W. Gruber	LB 70/482
	Wm. W. Gruber		J. D. Brawner , et al	LB 72/259
	J. D. Brawner , et al		Pennzoil Company	LB 88/264
	Pennzoil Company		Edwin H. Chapman	LB 91/563
	Edwin H. Chapman	M. wv	J&S Gas Company	LB 94/225
	J&S Gas Company	e o AR De	Hugh Spencer	LB 95/137
	Hugh Spencer	f Oi 1 epar	Spencer Enterprises, LLC	WB 33/68
	Spencer Enterprises, LLC	IVED I and Gas 1 2019 rtment of al Protection	Antero Resources Appalachian Corp	LB 396/611

Energy,Inc. LB 411/478 LB 377/304 DB 387/216 DB 429/585	** LB 14/135 LB 42/411 tion DB 143/345 Orporation DB 328/398 DB 328/398 DB 139/41 CB 1096/0124 (Delaware) CB 293/252 DB 293/252 DB 292/469 DB 387/180 DB 429/585 DB 429/585 DB 121/303 LB 154/475 LB 192/19 Mis 16/705
CNX Gas Company LLCand Noble Energy,Inc. CNX Gas Company.LLC Antero Resources Corporation EQT Production Company	The Carter Oil Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Development Company CNG Producing Company CNG Producing Company CNG Gas Company CNK Gas Company EQT Production Company Equitable Gas Company Equitable Production Company EQT Production Company
Antero Resources Appalachian Corp Noble Energy ,Inc CNX Gas Company.LLC Antero Resources Corporation	Knipe-4N S.W. Stout, et ux., et al. (Current Royalty Owner) S.W. Stout, et ux., et al. (Original Lessor) The Carter Oil Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Development Company CNG CONSOL Energy Holdings LLC VI CONSOL Energy Holdings LLC VI CONSOL Gas Company CNX Gaston , etal The Philadelphia Company of West Virginia Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitable Gas Company Equitable Production Compandon Development LD Equitable Production Compandon Development Equitable Production Compandon Development Equitable Production Compandon Development Developmen



OXF43H34 OXF43 **EQT Production Company**





07-10-2 6603.75 AC
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NO.	SURFACE OWNER			
3	CATHY JEAN WETZEL, ET AL			
4	I L (IKE) MORRIS			
5	RANDY E. & WILLIAM LEE HUFF			
8	ARNOLD DALE ALAN & BRYAN ALAN & DAVID LYNNGEE			
9	JANICE S. MCCORMACK			

NO.	ADJACENT OWNER WM & RANDY HUFF DECEDENTS	
7		
10	WILLIAM A. ARMENTROUT & SANDRA MATHENY	

OXF43H34 Well Point Coordinates

Top Hole Coordinates

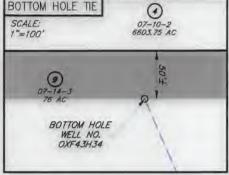
N: 241,942.484 LAT: 39.157030 N 4,334,232.6 N 241,977.8 E: 1,633,357.510 LONG: 80.792963 E: 517,903.0 E: 1,601,916.7 NAD 27 GEO NAD 83 UTM 17N (M) NAD 83 S.P.C. (Ft.)

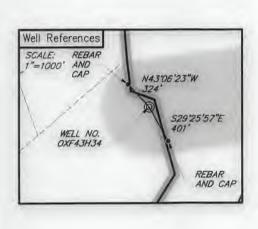
Landing Point Coordinates

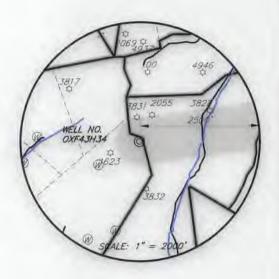
N: 243,105.549 LAT: 39.160355 E: 1,636,701.910 LONG: 80.781229 E: 518,916,0 NAD 27 S.P.C. (Ft.) NAD 27 GEO NAD 83 UTM 17N (M) N 4,334,604.0 E: 518,916.0 N 243,141.0 04/1 972019

Bottom Hole Coordinates

N: 248,245,011 LAT: 39.174375 N 4,336,158,0 N 248,280.3 E: 1,634,413.760 LONG: 80.789558 E: 518,192.8 E: 1,602,972.9 NAD 27 5.P.C. (Ft.) NAD 27 GEO NAD 83 UTM 17N (M) NAD 83 S.P.C. (Ft.)









LEGEND

STREAM

BUFFER

PLAT-2018-12-

43 WELL

OXF FILE

CAD

12/18

DA PLOT EXISTING OIL/GAS WELL WATER FEATURE

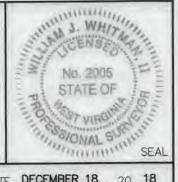
WELL HEAD TOP HOLE WELL LANDING POINT WELL BOTTOM HOLE REBAR FOUND

DRILLED LATERAL LINE PERMITTED LATERAL LINE LEASE BOUNDARY
PROPERTY LINE

500' LATERAL COLLECTION

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





DRAWING NO .: OXF43_Well Plat = 2000' SCALE: MINIMUM DEGREE OF ACCURACY: ±3' PROVEN SOURCE GPS OF ELEVATION:

EES-60635

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

DATE DECEMBER 18 , 20 18 OPERATORS WELL NO. OXF43H34

API WELL NO.

47 STATE

17 COUNTY

06882 PERMIT

WELL TYPE: ☐ OIL IN GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL IN (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☐ SHALLOW LOCATION. ELEVATION: 1254' (Ground) 1229' (Prop.) WATERSHED: Middle Fork Hughes River QUADRANGLE: OXFORD DODDRIDGE DISTRICT: SOUTH WEST / COVE COUNTY: ACREAGE: 104.48± AC Cathy Jean Wetzel, ET AL SURFACE OWNER: 255± AC ROYALTY OWNER: Franklin Maxwell Heirs L. P. LEASE NO .: _ 107429 ACREAGE: DRILL DEEPER X FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PROPOSED WORK: NO DRILL CONVERT OTHER PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6666' □PLUG AND ABANDON □CLEAN OUT AND REPLUG

WELL OPERATOR: EQT Production Company ADDRESS:

115 Professional Pl. P.O. Box 280

DESIGNATED AGENT:

Jason Ranson 115 Professional Pl. P.O. Box 280

ADDRESS: Bridgeport, WV 26330 Bridgeport, WV 26330



4 7 0 1 7 0 6 8 8 5 04/19/2019

2400 Ansys Drive, Suite 200 Canonsburg, PA 15317 www.eqt.com

John Zavatchan Landman - Permitting O:724-746-9073 izavatchan@eqt.com

February 28, 2019

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

Re: OXF43H34 Gas Well Southwest/Cove District, Doddridge County

Dear Mr. Brewer,

EQT Production Company is applying for a new well work permit for the well referenced above. Upon information and belief, the 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,

John Zavatchan Landman - Permitting

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MAR 1 1 2019

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

Date of Notic	ce Certification: 03/08/2019	APIN			
			or's Well No. OXF	43H34	
		Well P	ad Name: OXF43		
Notice has l					
Pursuant to th	ne provisions in West Virginia Code	22-6A, the Operator has provided the	required parties v	with the Notice Forms liste	
	tract of land as follows:	4. 00	A 25 CASA		
State:	West Virginia	UTM NAD 83 Easting		4,334,232.6	
County: District:	Doddridge	Northu	-		
	South West/Cove		Public Road Access: Rt 20		
Quadrangle: Watershed:			c Cally Jean Wetz	etzel, et. al.	
watersneu:	Middle Fork Hughes River				
requirements Virginia Cod of this article Pursuant to	of subsection (b), section sixteen to e § 22-6A-11(b), the applicant shall that have been completed by the applicant	erator has attached proof to this Noti-	by the surface ov tary that the notice	vner; and Pursuant to We requirements of section to	
*PLEASE CH	ECK ALL THAT APPLY			OOG OFFICE USE ONLA	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS COND		RECEIVED/ NOT REQUIRED	
☐ 2. NO	☐ RECEIVED				
■ 3. NO	TICE OF INTENT TO DRILL OF	☐ NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLATS WAS CONDUCTED or		RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY SUR (PLEASE ATTACH)	FACE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED	
■ 5. PU	BLIC NOTICE			☐ RECEIVED	
■ 6 NO	TIGE OF A DDI ICA TION			Прессия	

Required Attachments:

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

MAR 1 1 2019

Certification of Notice is hereby given:

THEREFORE, I John Zavatchan , 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

By: John Zavatchan

John Zavatchan

Landman - Permitting

Its: Landman - Per Telephone: 724-746-9073

Address: 2400 Ansys Drive, Suite 200

Canonsburg, PA 15317

Facsimile: 724-745-2418
Email: izavatchan@ed

jzavatchan@eqt.com

NOTARY SEAL
OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
AMY L TODD
EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
BRIDCEPORT, WV 28330
My Commission Expires August 21, 2022

Subscribed and sworn before me this

_day of March 2019

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas

MAR 1 1 2019

WW-6A (9-13) API NO. 47-OPERATOR WELL NO. OXAMA 19/2019 Well Pad Name: OXF43

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 03/08/2019 Date Permit Application Filed: 03/08/2019 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A **SERVICE** MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) ☑ COAL OWNER OR LESSEE Name: See Attached Name: See Attached Address: Address: Name: COAL OPERATOR Address: Name: _____ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached ☑ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: See Attached Name: Address: __ Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Name: Name: See Attached Address: Address: RECEIVED *Please attach additional forms if necessary Office of Oil and Gas

MAR 1 1 2019

API NO. 47-4701706885 OPERATOR WELL NO. 0x/034/419/2019 Well Pad Name: 0XF43

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental EIVED Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.org

Well Location Restrictions

MAR 1 1 2019

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 withful the 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

4701706885 OPERATOR WELL NO. 0x44/19/2019

Well Pad Name: OXF43

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

Written Comment:

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

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

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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. WV Department of

Environmental Protection

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WW-6A (8-13)

01706885 API NO. 47-

OPERATOR WELL NO. OX 03/184/19/2019

Well Pad Name: OXF43

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 724-746-9073 Email: jzavatchan@eqt.com Address: 2400 Ansys Drive, Suite 200

Canonsburg, PA 15317

Facsimile: 724 745 2418

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
AMY L TODD
EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
BRIDGEPORT, WV 26330
Commission Expires August 21, 20

Subscribed and sworn before me this

day of March

Notary Public

My Commission Expires

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Surface Owners:

CATHY JEAN WETZEL, ET AL 322 ZACKS RUN ROAD MOUNT CLARE ,WV 26408

RANDY E. HUFF DECEDENT'S RUST B 826 ORANGE AVENUE CORONADO, CA 92118

WILLIAM LEE HUFF 826 ORANGE AVENUE CORONADO, CA 92118

Surface Owners (road, AST, or other disturbance):

CATHY JEAN WETZEL, ET AJ 322 ZACKS RUN ROAD MOUNT CLARE ,WV 26408

RANDY E. HUFF DECEDENT'S TRUST B 826 ORANGE AVENUE CORONADO , CA 92118

WILLIAM LEE HUFF 826 ORANGE AVENUE CORONADO, CA 92118

I.L. MORRIS PO BOX 397 GLENVILLE, WV

MATHEW H. COPELAND 1500 HAYSTACK LANE WEST UNION,WV 26456

SANDRA MATHENY ARMENTROUT AND WILLIAM A ARMENTROUT 851 MACE ST. ELKVIEW, WV 25071

Janice S. McCormack 1903 CAMP RUN ROAD WEST UNION, WV 26456

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Coal Owner

Adele McDougal 213 W. High Street Harrisville WV 26362

William Lee Huff c/o Joye E Huff 826 Orange Ave. Coronado CA 92118

Master Mineral Holdings II LP / P.O.Box 10886 Midland TX 79702

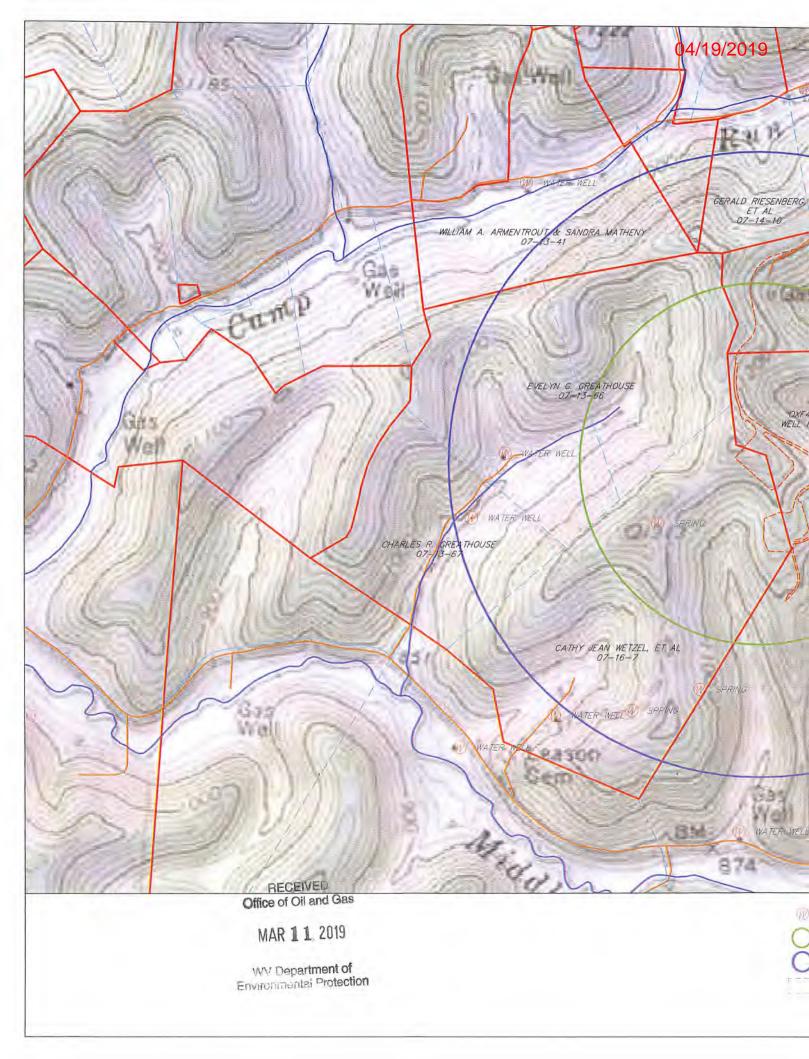
Lois L McKain 4141 S. Braeswood Blvd. Apt 224 Houston TX 77009

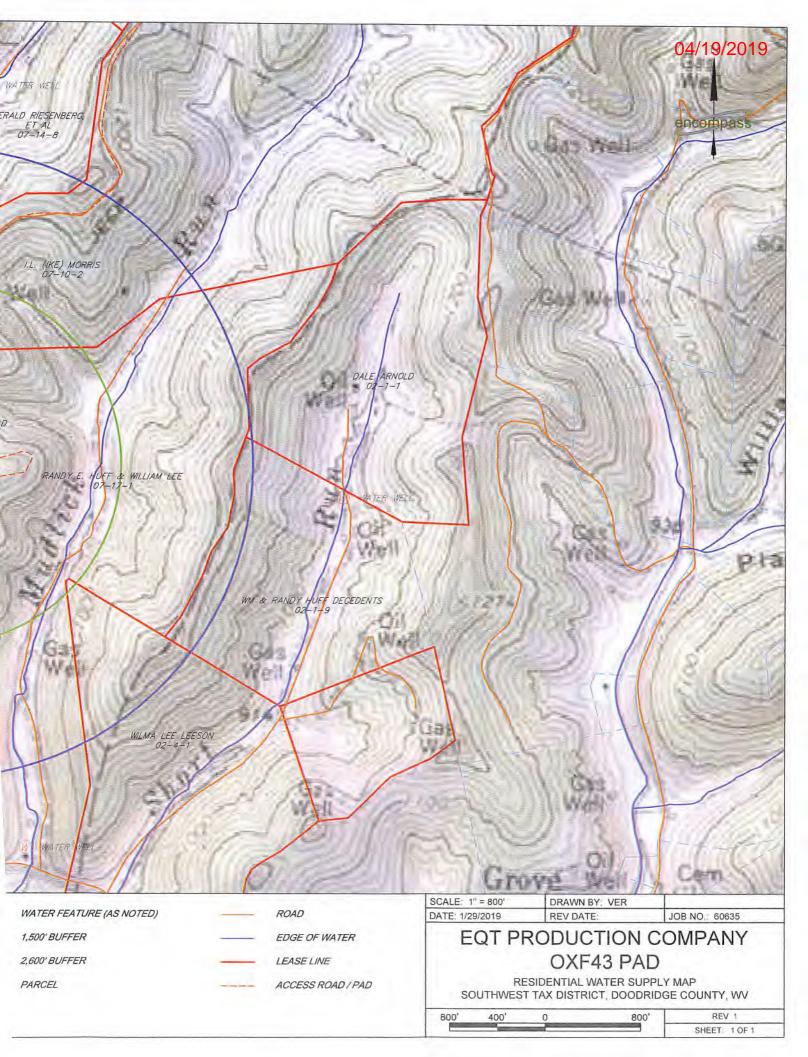
Katherine Foster Leggett 1625 Stonehenge Rd Charleston WV 25314

Franklin Maxwell Heirs Ltd Partnership #1 P.O.Box 2395 Buchannon WV 26201

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EQT Well Pad Name: OXF 43	Submittal Date:	
EQT Well Number:		
Survey / Engineering Company: _ RE	ETTEW Associates, Inc.	
Site Number: 07-16-7 Distance from	m Gas Well (feet):_1583'	
Surface Owner / Occupant: Cathy Je	ean Wetzel,ET AL	☐ Landowner Requested
322 Zacks Run Road, RT 2 B Address: Mount Claire, WV 26408	Phone #:	Sampling Landowner Decline
Field Located Date: 4/20/17		Sampling
Coordinates: 39.155761, 80.79576216	(decimal degrees – NAD 83)	made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st:	Date Door Hanger Left:	
Comments: Spring, no update from O		
Surface Owner / Occupant: Cathy Jee 322 Zacks Run Road, RT 2 Address: Mount Claire, WV 26408	an Wetzel, ET AL 2 Box 317, Phone #:	Sampling
Surface Owner / Occupant: Cathy Jes 322 Zacks Run Road, RT 2 Address: Mount Claire, WV 26408 Field Located Date: 4/20/17	an Wetzel, ET AL	Sampling Landowner Decline
Address:Mount Claire, WV 26408 Field Located Date:4/20/17 Coordinates:39.15199707, 80.794459	an Wetzel, ET AL 2 Box 317, Phone #: Owner home during survey (yes/no):	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Surface Owner / Occupant: Cathy Jes 322 Zacks Run Road, RT 2 Address: Mount Claire, WV 26408 Field Located Date: 4/20/17 Coordinates: 39.15199707, 80.794459	an Wetzel, ET AL 2 Box 317, Phone #: Owner home during survey (yes/no): (decimal degrees – NAD 83) 2nd: Door Hanger Left:	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Surface Owner / Occupant: Cathy Jes 322 Zacks Run Road, RT 2 Address: Mount Claire, WV 26408 Field Located Date: 4/20/17 Coordinates: 39.15199707, 80.794459 Contact Attempts (Date): 1st:	an Wetzel, ET AL 2 Box 317, Phone #: Owner home during survey (yes/no): (decimal degrees – NAD 83) 2nd: Door Hanger Left: October 2018 visit	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Surface Owner / Occupant: Cathy Jest 322 Zacks Run Road, RT 2 Address: Mount Claire, WV 26408 Field Located Date: 4/20/17 Coordinates: 39.15199707, 80.794459 Contact Attempts (Date): 1st: Comments: Spring,no update from Comments: O7-16-7 Site Number: 07-16-7 Distance from Surface Owner / Occupant: Cathy Jesting Surface Owner / Occupant Surface Ow	an Wetzel, ET AL 2 Box 317, Phone #: Owner home during survey (yes/no): 284 (decimal degrees – NAD 83) 2nd: Door Hanger Left: October 2018 visit om Gas Well (feet): 2567' ean Wetzel, ET AL	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Surface Owner / Occupant: Cathy Jest 322 Zacks Run Road, RT 2 Address: Mount Claire, WV 26408 Field Located Date: 4/20/17 Coordinates: 39.15199707, 80.794459 Contact Attempts (Date): 1st: Comments: Spring,no update from 0 Site Number: 07-16-7 Distance from Surface Owner / Occupant: Cathy Jest 22 Zacks Run Road, RT 2 B	an Wetzel, ET AL 2 Box 317, Phone #: Owner home during survey (yes/no): 284 (decimal degrees – NAD 83) 2nd: Door Hanger Left: October 2018 visit om Gas Well (feet): 2567' ean Wetzel, ET AL Box 317,	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline
Surface Owner / Occupant: Cathy Jest 322 Zacks Run Road, RT 2 Address: Mount Claire, WV 26408 Field Located Date: 4/20/17 Coordinates: 39.15199707, 80.794459 Contact Attempts (Date): 1st: Comments: Spring,no update from 0 Site Number: 07-16-7 Distance from Surface Owner / Occupant: Cathy Je 322 Zacks Run Road, RT 2 B Address: Mount Claire, WV 26408	an Wetzel, ET AL 2 Box 317, Phone #: Owner home during survey (yes/no): 284 (decimal degrees – NAD 83) 2nd: Door Hanger Left: October 2018 visit om Gas Well (feet): 2567' ean Wetzel, ET AL Box 317,	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline Sampling Unable to Contact
Surface Owner / Occupant: Cathy Jest 322 Zacks Run Road, RT 2 Address: Mount Claire, WV 26408 Field Located Date: 4/20/17 Coordinates: 39.15199707, 80.794459 Contact Attempts (Date): 1st: Comments: Spring,no update from 0 Site Number: 07-16-7 Distance from Surface Owner / Occupant: Cathy Je 322 Zacks Run Road, RT 2 B Address: Mount Claire, WV 26408 Field Located Date: 4/20/17 Own Coordinates: 39.15149523, 80.79646	an Wetzel, ET AL 2 Box 317, Phone #: Owner home during survey (yes/no): 984 (decimal degrees – NAD 83) 2nd: Door Hanger Left: October 2018 visit om Gas Well (feet): 2567' ean Wetzel, ET AL Box 317, Phone #:	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline Sampling



EQT Well Pad Name: OXF43	Submittal Date:	
EQT Well Number:	= 1	
Survey / Engineering Company: RETTEW		
Site Number: 07-16-7 Distance from Gas V	Vell (feet):2872'	
Surface Owner / Occupant: Cathy Jean Wetze	I, ET AL	☐ Landowner Requested
322 Zacks Run Road, RT 2 Box 317, Address: Mount Claire, WV 26408	Phone #:	Sampling ☐ Landowner Decline
Field Located Date: 4/20/17 Ow	mer home during survey (yes/no):	Sampling Unable to Contact (Further contact attempts to be
Coordinates: 39.15136349, 80.79874149	(decimal degrees - NAD 83)	- In the COTTLe Atted where
Contact Attempts (Date): 1st:2nd: _	Date Door Hanger Left:	_
Comments: Well, no update from October 201	8 visit	_
Site Number: 07-13-67 Distance from Gas V	Nell (feet):2616'	
		Taxon and
Surface Owner / Occupant: Charles R. Greath		☐ Landowner Requested Sampling
Address: 71 Alum Fork Road, Camden, WV 263	338 Phone #:	☐ Landowner Decline Sampling
Field Located Date: 10/23/18 Owner	home during survey (yes/no):	☐ Unable to Contact
Coordinates: 39.15583001, 80.8012587	(decimal degrees - NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st:2nd:	Door Hanger Left:	_
Comments: Well		_
Site Number: 07-13-66 Distance from Gas \	Well (feet): 2321'	
Surface Owner / Occupant: Evelyn G. Greath	ouse	☐ Landowner Requested
Address: 147 Torrey Dr, Buckhannon, WV 262	201 Phone #:	
Field Located Date: 10/23/18 Owner hom	ne during survey (Yes/No):	Sampling Unable to Contact (Further contact attempts to be
Coordinates: 39.15729159, 80.80024123	(decimal degrees - NAD 83)	made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st:2nd:	Date Door Hanger Left:	_

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EQT Well Pad Name: OXF43 EQT Well Number:	Submittal Date:	
Survey / Engineering Company: _RETTEV	N	
Site Number: 07-13-41 Distance from Gas	Well (feet): 3179'	
Surface Owner / Occupant: William A. Armer	ntrout & Sandra Matheny	☐ Landowner Requested
Address: 815 Mace St, Elk View, WV 25071	Phone #:	
Field Located Date: 04/21/17 O	wner home during survey (yes/no):	Sampling Unable to Contact
Coordinates: 39.16348426, 80.79976642	(decimal degrees - NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st:2nd	:Date Door Hanger Left:	
Comments: Well, no update from October 20	18 visit	_
Address: 290 Ogden Road, OH 45177 Field Located Date: 04/21/17 Owner Coordinates: 39.16572147, 80.79158604	er home during survey (yes/no): (decimal degrees - NAD 83)	Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st:2nd		
Comments: Well, update - October 2018 - lar Site Number: 02-1-9 Distance from Gas		eu and no wens
Surface Owner / Occupant: Wm & Randy H	uff Decedents	☐ Landowner Requested
Address: 826 Orange Ave, Coronado, CA 92	118 Phone #:	Sampling Landowner Decline Sampling
Field Located Date: 10/23/18 Owner h	ome during survey (Yes/No):	☐ Unable to Contact (Further contact attempts to be
Coordinates: 39.15651686, 80.78094585	(decimal degrees - NAD 83)	made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st;2n	d: Date Door Hanger Left:	
Comments: Well		



EQT Well Pad Name: OXF43 Submittel Date:	
EQT Wall Number:	
Survey / Engineering Company: RETTEW	
Site Number: 07-17-1 Distance from Gas Well (feet): 3371	
Surface Owner / Occupant: Randy E. Huff & William Lee	Landowner Requested
Address: 826 Orange Ave., Coronado, CA 92118 Phone #:	Sampling Kandowner Decline
Field Located Date: 10/23/18 Owner home during survey (yes/no):	Sampling Unable to Contact
Coordinates: 39.14843745, 80.79014573 (decimal degrees – NAD 83)	(Further contact attempts to b made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: Date Door Hanger Left:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Comments: Well	4
Field Located Date: 10/23/18 Owner home during survey (yes/no): Coordinates: 39.14876464, 80.79325539 (decimal degrees - NAD 83)	(Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 161; Door Hanger Left: Comments: Well	pre-drill eampling leb)
Contact Attempts (Date): 161;2nd; Door Hanger Left: Comments: Well	pre-drill sampling (sb)
Contact Attempts (Date): 161;2nd; Door Hanger Left: Comments: Well	pre-drift sampling les)
Contact Attempts (Date): 161;	☐ Landowner Requested Sampling ☑ Landowner Decline
Contact Attempts (Date): 161;	☐ Landowner Requested Sampling ☑ Landowner Declins Sampling Unable to Contact
Contact Attempts (Date): 161;	☐ Landowner Requested Sampling ☑ Landowner Decline Sampling
Contact Attempts (Date): 161:	☐ Landowner Requested Sampling ☑ Landowner Decline Sampling Unable to Contact (Futher contact attempts to b mede by EQTs third party

Office of Oil and Gas



EQT Well Pad Name: OXF43	Submittal Date:	
EQT Well Number:		
Survey / Engineering Company:R	ETTEW	
Site Number: 07-14-10 Distance from	m Gas Well (feet):	
Surface Owner / Occupant: Gerald R	iesenberg, ET AL	☐ Landowner Requested
Address: 290 Ogden Road, OH 45177	Phone #:	
Field Located Date:	Owner home during survey (yes/no):	Sampling Unable to Contact
Coordinates: Unconfirmed	(decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st:	2nd:Date Door Hanger Left:	_
Comments: No features within 2600	buffer	_
Field Located Date: Coordinates:	Owner home during survey (yes/no): (decimal degrees – NAD 83)	Sampling Unable to Contact (Further contact attempts to bounded by EQT's third party pre-drill sampling lab)
	2nd: Door Hanger Left:	
Comments: No features within 2600' b	ипег	
St. 11 1 00 11 Distance for	Can Mall (feath)	
Site Number: 02-1-1 Distance fro		
Surface Owner / Occupant: Dale Arn	old, ET AL	☐ Landowner Requested Sampling
Surface Owner / Occupant: Dale Arn Address: 4825 Roop Rd, Mount Airy, I	old, ET AL MD 21771 Phone #:	Sampling Landowner Decline Sampling
Surface Owner / Occupant: Dale Arm Address: 4825 Roop Rd, Mount Airy, I Field Located Date: Ov	old, ET AL	Sampling Zampling Landowner Decline



EQT Well Pad Name: OXF43	Submittal Date:	Submittal Date:		
EQT Well Number:				
Survey / Engineering Company:	RETTEW			
Site Number: 02-4-1 Distance f	rom Gas Well (feet):			
Surface Owner / Occupant: Wilma	Lee Leeson	☐ Landowner Requested		
Address: 2687 Millview Dr, Columbus	s, OH 43207 Phone #:	Sampling Landowner Decline		
Field Located Date:		Sampling Unable to Contact		
Coordinates: Unconfirmed	(decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)		
Contact Attempts (Date): 1st:	2 nd :Date Door Hanger Left:			
Comments: No features within 2600)' buffer			
Site Number: Distance f Surface Owner / Occupant:		☐ Landowner Requested Sampling ☐ Landowner Decline		
Surface Owner / Occupant: Address: Field Located Date: Coordinates:	Phone #: Owner home during survey (yes/no): (decimal degrees – NAD 83)	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)		
Surface Owner / Occupant: Address: Field Located Date: Coordinates: Contact Attempts (Date): 1st;	Phone #: Owner home during survey (yes/no):	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to b made by EQT's third party pre-drill sampling lab)		
Surface Owner / Occupant: Address: Field Located Date: Coordinates: Contact Attempts (Date): 1st; Comments:	Phone #: Owner home during survey (yes/no): (decimal degrees – NAD 83) 2nd: Door Hanger Left:	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to b made by EQT's third party pre-drill sampling lab)		
Surface Owner / Occupant: Address: Field Located Date: Coordinates: Contact Attempts (Date): 1st; Comments: Site Number: Distance	Phone #:Owner home during survey (yes/no):(decimal degrees – NAD 83)2nd:Door Hanger Left: from Gas Well (feet):	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested		
Surface Owner / Occupant: Address: Field Located Date: Coordinates: Contact Attempts (Date): 1st; Comments: Site Number: Distance Surface Owner / Occupant:	Phone #:Owner home during survey (yes/no):(decimal degrees – NAD 83)2nd:Door Hanger Left: from Gas Well (feet):	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline		
Surface Owner / Occupant: Address: Field Located Date: Coordinates: Contact Attempts (Date): 1st: Comments: Site Number: Distance Surface Owner / Occupant: Address:	Phone #: Owner home during survey (yes/no): (decimal degrees – NAD 83) 2 nd : Door Hanger Left: from Gas Well (feet):	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline Sampling Unable to Contact		
Surface Owner / Occupant: Address: Field Located Date: Coordinates: Contact Attempts (Date): 1st: Comments: Site Number: Distance Surface Owner / Occupant: Address:	Phone #: Owner home during survey (yes/no): (decimal degrees – NAD 83) 2nd: Door Hanger Left: from Gas Well (feet): Phone #:	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline Sampling		

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 Notic	Requirement: 1 e: 02/12/2019		ovided at least TEN (10) days prior to fili Pate Permit Application Filed: _3/8/	
Delivery met	hod pursuant t	o West Virginia (Code § 22-6A-16(b)	
☐ HAND	•	CERTIFIED MAI	T.	
DELIVE			PT REQUESTED	
receipt reques drilling a hori of this subsec subsection ma and if availab	ted or hand delizontal well: Prition as of the day be waived in le, facsimile nur	ivery, give the surf rovided, That notice ate the notice was p writing by the surf mber and electronic	Tace owner notice of its intent to enter up- be given pursuant to subsection (a), section provided to the surface owner: <i>Provided</i> , face owner. The notice, if required, shall c mail address of the operator and the operator	tion, an operator shall, by certified mail return on the surface owner's land for the purpose of on ten of this article satisfies the requirements however. That the notice requirements of this include the name, address, telephone number, erator's authorized representative.
		to the SURFAC	CE OWNER(s):	
Name: See Atta Address:	ched List		Name: Address:	
		ode § 22-6A-16(b).	, notice is hereby given that the undersig	ned well operator has an intent to enter upon
Pursuant to W the surface ov State: County:	est Virginia Co vner's land for t West Virginia Doddridge		ing a horizontal well on the tract of land a UTM NAD 83 Easting Northin	g: 517,903.0 g: 4,334,232.6
the surface ov State: County: District:	est Virginia Covner's land for t West Virginia Doddridge Southwest / Cove		ing a horizontal well on the tract of land a Easting UTM NAD 83 Northin Public Road Access:	as follows: 517,903.0 g: 4,334,232.6 Rt. 20
Pursuant to W the surface ov State: County:	est Virginia Co vner's land for t West Virginia Doddridge	the purpose of drill	ing a horizontal well on the tract of land a UTM NAD 83 Easting Northin	as follows: 517,903.0 g: 4,334,232.6 Rt. 20
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nur related to hor	Vest Virginia Covner's land for to West Virginia Doddridge Southwest / Cove Oxford Middle Fork Hugher Shall Include Vest Virginia (on ber and electroizontal drilling)	es River 2: Code § 22-6A-16(onic mail address may be obtained to	b), this notice shall include the name, of the operator and the Operators at the WV Department.	as follows: 517,903.0 g: 4,334,232.6 Rt. 20
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hon located at 601	Vest Virginia Covner's land for to West Virginia Doddridge Southwest / Cove Oxford Middle Fork Hugher Shall Include Vest Virginia (on ber and electroizontal drilling)	es River Code § 22-6A-16(onic mail address may be obtained to , Charleston, WV	b), this notice shall include the name, of the operator and the Operators at the WV Department.	as follows: 517,903.0 g: 4,334,232.6 Rt. 20 Cathy Jean Wetzel, et. al. address, telephone number, and if available, orized representative. Additional information and of Environmental Protection headquarters,
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he	Vest Virginia Covner's land for to West Virginia Doddridge Southwest / Cove Oxford Middle Fork Hughe Shall Include Vest Virginia Couber and electrorizontal drilling 57th Street, SE	es River E: Code § 22-6A-16(onic mail address may be obtained to, Charleston, WV	b), this notice shall include the name, of the operator and the Operators at the WV Department.	as follows: 517,903.0 g: 4,334,232.6 Rt. 20 Cathy Jean Wetzel, et. al. address, telephone number, and if available, prized representative. Additional information and of Environmental Protection headquarters, w.dep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile num related to hon located at 601 Notice is he	Vest Virginia Covner's land for to West Virginia Doddridge Southwest / Cove Oxford Middle Fork Hugher Vest Virginia Conber and electroizontal drilling 57th Street, SE	es River E: Code § 22-6A-16(onic mail address may be obtained to , Charleston, WV	b), this notice shall include the name, of the operator and the operator's authfrom the Secretary, at the WV Department 25304 (304-926-0450) or by visiting www.	as follows: 517,903.0 g: 4,334,232.6 Rt. 20 Cathy Jean Wetzel, et. al. address, telephone number, and if available, prized representative. Additional information and of Environmental Protection headquarters, w.dep.wv.gov/oil-and-gas/pages/default.aspx.
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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 of the Office will appropriately secure your personal information. If you have any questions about our use or your personal information, prease contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Surface Owners:

CATHY JEAN WETZEL, ET AL 322 ZACKS RUN ROAD MOUNT CLARE ,WV 26408

RANDY E. HUFF DECEDENT'S RUST B 826 ORANGE AVENUE CORONADO, CA 92118

WILLIAM LEE HUFF 826 ORANGE AVENUE CORONADO, CA 92118

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Surface Owners (road, AST, or other disturbance):

CATHY JEAN WETZEL, ET AL 322 ZACKS RUN ROAD MOUNT CLARE ,WV 26408

RANDY E. HUFF DECEDENT'S TRUST & 826 ORANGE AVENUE CORONADO , CA 92118

WILLIAM LEE HUFF 826 ORANGE AVENUE CORONADO, CA 92118

I.L. MORRIS PO BOX 397 GLENVILLE, WV

MATHEW H. COPELAND 1500 HAYSTACK LANE WEST UNION,WV 26456

SANDRA MATHENY ARMENTROUT AND WILLIAM A. ARMENTROUT 851 MACE ST. ELKVIEW, WV 25071

Janice S. McCormack 1903 CAMP RUN ROAD WEST UNION, WV 26456

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WW-6A5 (1/12)

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

Date of Hotic		vided no later than the filing rmit Application Filed: 03/0		application.
Delivery met	hod pursuant to West Virginia (Code § 22-6A-16(c)		
■ CERTIF	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a had damages to th	requested or hand delivery, give the peration. The notice required by a provided by subsection (b), section orizontal well; and (3) A propose surface affected by oil and gas o	he surface owner whose land this subsection shall include on ten of this article to a surfaced surface use and compens perations to the extent the da	will be used for de: (1) A copy ace owner whos ation agreemen mages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information we land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. Sted in the records of the sheriff at the time
	eby provided to the SURFACE On a listed in the records of the sheriffered List	f at the time of notice):	See Attached List	•
				
Notice is here				
Pursuant to Woperation on State: County: District: Quadrangle:	Vest Virginia Code § 22-6A-16(c), the surface owner's land for the put West Virginia Doddridge Southwest / Cove Oxford	urpose of drilling a horizonta UTM NAD 8 Public Road A	l well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 517,903.0 4,334,232.6 Rt. 20 Cathy Jean Wetzei, et. al.
Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Sursuant to Woto be provide thorizontal we surface affect information r	Vest Virginia Code § 22-6A-16(c), the surface owner's land for the put West Virginia Doddridge Southwest / Cove Oxford Middle Fork Hughes River Shall Include: Vest Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b) Coll; and (3) A proposed surface use led by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	This notice shall include: (1) this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are compensationed from the Secret	l well on the tra Easting: Northing: Access: d farm name: A copy of this land will be understood arm, at the WV	tot of land as follows: 517,903.0 4,334,232.6 Rt. 20
Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Sepursuant to Wood to be provide horizontal we surface affect information readquarters, gas/pages/def	Vest Virginia Code § 22-6A-16(c), the surface owner's land for the put West Virginia Doddridge	This notice shall include: (1) this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are compensationed from the Secret	l well on the tra Easting: Northing: Access: d farm name: A copy of this land will be understood arm, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Sepursuant to Woto be provide horizontal we surface affect information readquarters, gas/pages/def	Vest Virginia Code § 22-6A-16(c), the surface owner's land for the put West Virginia Doddridge	this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are compensation, WV 25304 to the content of the conte	l well on the tra Easting: Northing: Access: A copy of this land will be und containing arompensable und ary, at the WV (304-926-0450)	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-suite 200

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 deprivacyofficer@wv.gov.

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Janice S. McCormack 1903 CAMP RUN ROAD WEST UNION, WV 26456

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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

November 13, 2018

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

Jill M. Newman Deputy Commissioner

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

OXF43H20	OXF43H21	OXF43H22
OXF43H24	OXF43H28	OXF43H29
OXF43H32	OXF43H34	OXF43H35
OXF43H36	OXF43H37	

Dear Mr. Martin.

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

Dany K. Clayton

Central Office O&G Coordinator

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MAR 1 1 2019

WV Department of Environmental Protection

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-4

File

ves 4701706885 04/19/2019

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
	Tributyl tetradecyl phosphonium	
Friction Reducer	chloride	64742-47-8
Biocide	Ammonium chloride ·	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7

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OXF43 AS-BUILT SITE PLAN PROJECT INFORMATION **EQT PRODUCTION COMPANY** PERMITTED WELLS: API# 47-017-06739, 47-017-06740, 47-017-06741, 47-017-06742, LIST OF DRAWINGS 47-017-06743, 47-017-06744, 47-017-06745, 47-017-06746, 47-017-06747, 47-017-06748 1 - GOVER SHEET AND 47-017-06749 E-MINEX RIVERY 1-CXF-43 ACCESS AGAD PROPOSED WELL NUMBERS: OXF43H28, OXF43H29, OXFH33, OXF43H34, OXF43H35, DADE OF THE STATE OF THE STATE OF N. DEFECTACE TO WOAD OXF43H36, OXF43H37, AND OXF43H38 GREATHOUSE CHARLES & B EYELYN G. AFN 07-13-66 D.S. 322 PG 340 BUDGE OF THE BOUR SITUATE ON WATERS OF MIDDLE FORK OF THE SOUTH FORK OF HUGHES RIVER IN THOUGHT ACCUSATIONS B TOWNS ACCUSED WHAT SOUTHWEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA 9 - CEP-ME ACCENT FOAD, WILL EAR AND ACCESS WOAD AND HAD 'A' A'49 - 4CEC OF SOAD. LOCATION MAP 10 - CONTRACT WILL, PACE AND ACCURE ROAD, PAD "A" AND ACCURED, FROAD AND PAD ST AND WILL BULLDRATERN BOAD. OXFORD QUAD IT - DISTAIL PARTY AND WELL HELDRATION BOOK. MAIN ENTRANCE STAMPH MOAD PROPER CIL AND GAS ROYALTY OWNER: VACABANG MINAN PROPERTY I DISTRICTORS: BOUTHWEST / COME DOCOMEDGE COUNTY, MY TOTAL PROPERTY AREA: 25G4 ACRES O CHARLE BEAD PROPER AND PAR ACCUSE REALISED. THE PART ARCE HE ASSAULANCE AND WELL RELIEVATION HOLD PROPERTY LOCATION COORDINATES DXF-40 SITE ENTRANCE LATITUDE: 39 100202 LONGITUDE: 40 797041 (HAD 83) NORTHING: 4 304,740.7 EASTING: 617,528.7 (UTM NAD 83 METERS OD by property means: Property March Rendy F. Hall Character (facility seems not Massa (Officers) | Verdal Ann Chile) DMF-43 CENTER OF WELL PAD LATTICEE 34 157175 LONGTUDE: 40.719574 (NAD.43) NORTHING 4,334,230 2 EASTING 517,501 4 (NTM NAD.43) 7/15/1 22.65 Waters Safer Jean P. H. Superior of Marketin F. Total Area MAIN ACCESS ROAD SITE DISTURBANCE COMPUTATIONS GENERAL DESCRIPTION THE DISF 43 PACEAND ART PADE ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS LEGEND PROPERTY LIVES LIMITS OF DISTURBANCE WVDEP OOG EX ROAD FUGE UP GRAVEL/BUTY EX ROAD CENTERLINE ACCEPTED AS-BUILT EX CULVERY AST PAD B AND WELL EX GARLINE 1 / 29 / 2019 HO FOOTPENT EDIE OF GRAVET PAD PLAN EDGE OF BERM DRANGE CONSTRUCTION PENEE 19" COMPOST FILTER SOCK OXF43 AS-BUILT SITE P IN COMPOST PLITTE SOCK 34" COMPOST PLITTE SOCK TOP BERM STREET, MOTE TRANSMISSION OF THE DEALWAG AFFLES ONLY TO THE TRYCHARMS AND THE SOCIETY OF THE DEALWAG AFFLES ONLY TO THE TRYCHARMS OF THE OTHER OF THE DEAL SHAPE OF THE STATE OF THE THE OTHER OF THE SOCIETY OF THE THE OTHER OF THE THE E STATE A GRAVEL RIP RAP ROUR CONSTRUCTION ENTRANCE OBIGINAL OROUND O' CONTOURS WV Departmer Environmental Pro AN BUILT O' CONTOURS Alss Unity of West Virginia D Virgania State Law Bear 17 IV: Chapter 24-C) at what Washines Cays before y West Virginia PROPOSED WILL LOCATIONS ADJACKNY WELL LOCATIONS MATCHLINE EX FENCELINE EX GATE EX STRUCTURE Da DAYL 10/10/2003 EX PIPELINE MARKER EX DVERHEAD UTILITY EX POWER POLE EX GUY WISE EX GASLINE O THE LAW pinnavan by: Tw PILE Ira Bess IVED SHEET 1 OF AU SCALE: 1'-1000' the state of the last in the last nt of election Gas 9

