

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.dcp.wv.gov

Tuesday, April 9, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re:

Permit approval for OXF43H32

47-017-06884-00-00

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

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

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number:

OXF43H32

Farm Name:

CATHY JEAN WETZEL, ET A

Chief

James A. Martin

U.S. WELL NUMBER:

47-017-06884-00-00

Horizontal 6A New Drill

Date Issued: 4/9/2019

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API Number:

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

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than 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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API Number:	

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

11/29/2018

RECEIVED Office of Oil and Gas

DEC 6 2018

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 **OXF43H32**, **OXF43H34**, **OXF43H35**, **OXF43H36**, **OXF43H37**.

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:

- Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 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 noted abnormalities.

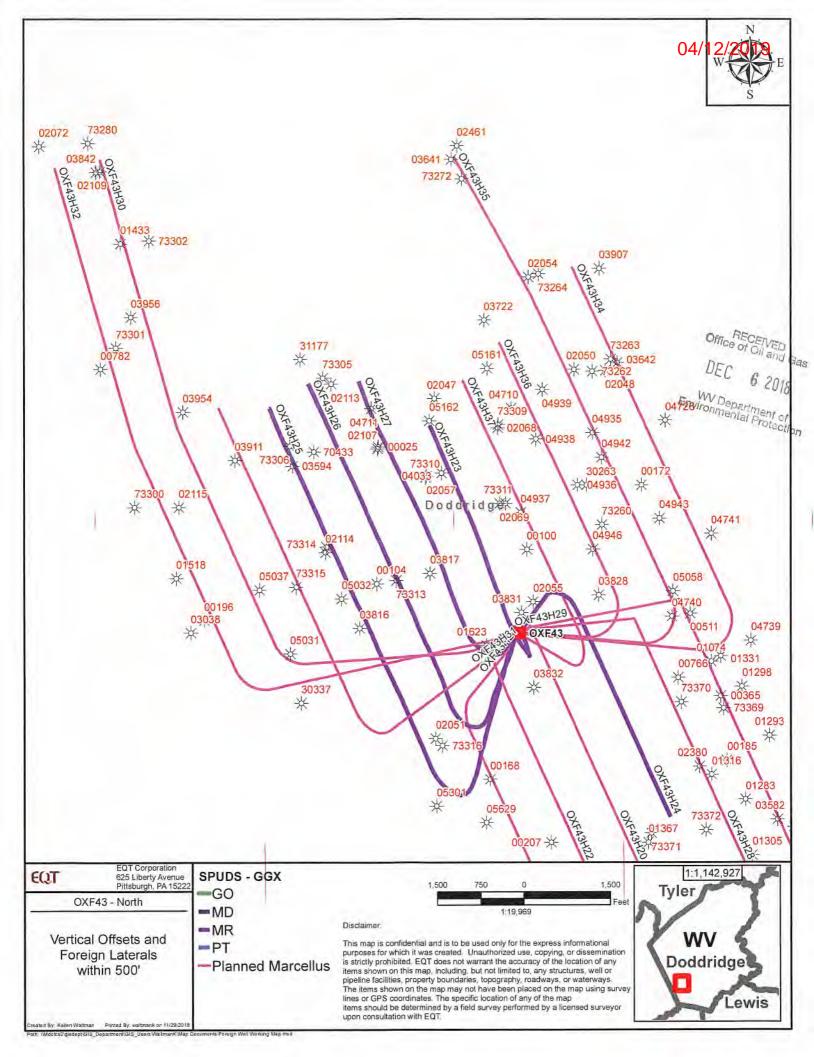
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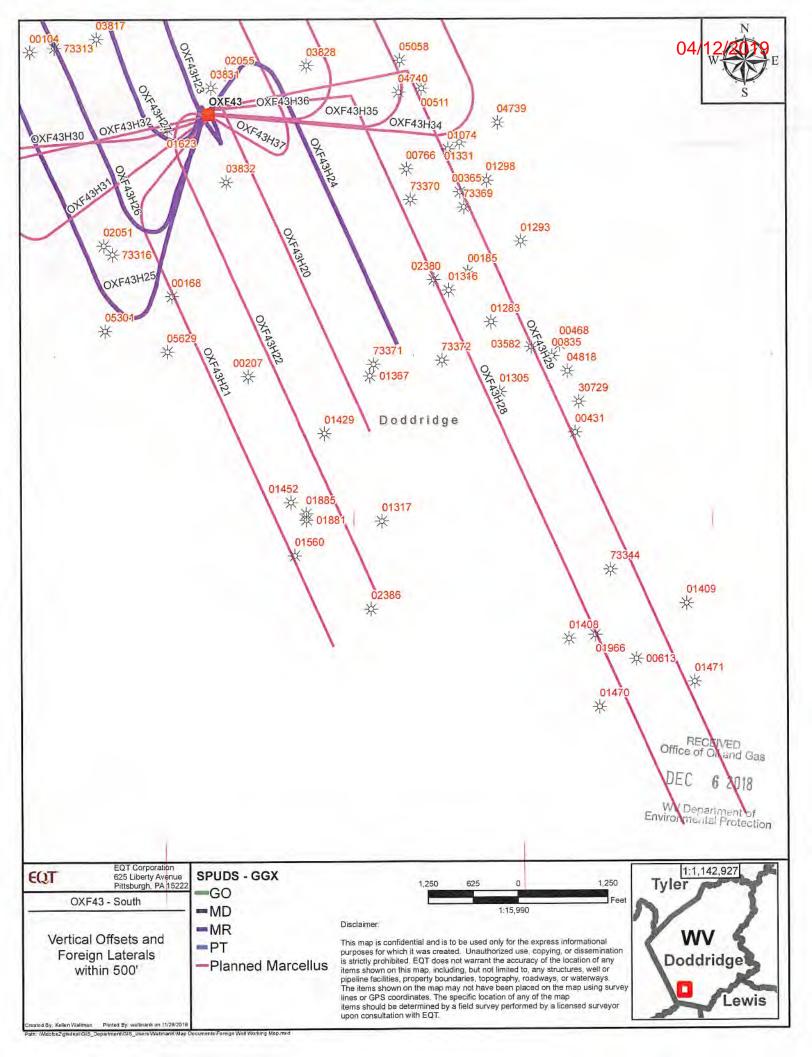
WV Department of Environmental Protection

Office of Oil and Gas

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API Number		pletion Date Current Operator	Elevation Elevation Reference			-	Well Name	Permit Date S	DIID Todo TTT Formatista 🗝	Total Depth Permit
4701700025	-	8/13/1930 PGH & WV GAS	1012	UNK	39.1659	-80.8015			SEIVED OII and SOII a	2502 73264
4701700196		9/27/1917 PGH & WV GAS	831	GAS-P	39.1577	-80.8122			± 6 ± €	2288 73311
4701700782		6/23/1962 WM GRUBER	883 [°] 1046	DRY O&G	39.1696 39.1354	-80.8185 -80.7692				2352 73315 2653 73371
4701701471 4701701518		9/6/1967 MID AMERICAN EXPLORATION 8/29/1968 HUGH SPENCER	906	GAS	39.1354 39.1597	-80.7692			RECEIVE e of Oil &	2007 73316
4701701518		5/23/1918 EPC	906	GAS	39.1682	-80.7981				1907 73313
4701702047		5/18/1918 EPC		GAS	39.1695	-80.7876			ى <u>ح</u> س ت	1944 02057
4701702051		7/5/1918 EPC		GAS	39.1521	-80.798				1801 73370
4701702109		1/12/1921 EPC		GAS	39.179	-80.8185			O É	1898 73369
4701703722		6/23/1939 TERM ENERGY	1021	GAS	39.1719	-80.795			ш	5094 73262
4701703911	l	EASTERN AMERICAN	864	LOC	39.1653	-80.8103				73263
4701704939)	6/2/2005 KEY OIL	1204	GAS	39.1686	-80.7914				2771 73272
4701773309				roc	39.1 66 9	-80.7942				73280
4701773310				LOC	39.1644	-80.7986				73344
47017001000000		2/16/1930 CONSOL GAS COMPANY	1163 GR	UNKWN	39.1610		7056 S W STOUT	1/2/1930	1/17/1930	00100 2045 00100
47017001000001		7/19/1939 CONSOL GAS COMPANY	1163 GR	GAS	39.1610 39.1594		7056 S W STOUT 4658 W B MAXWELL 2	6/4/1939 7/18/1939	6/19/1939 BIG INJUN /SD/ 8/2/1939 GORDON	2492 00104
47017001040000 47017001680000		9/1/1939 EQT PRODUCTION COMPANY 10/1/1946 DIVERSIFIED RESOURCES INCORPORATED	1095 GR 905 GR	GAS GAS	39.1594		1 JESSIE WILLIAMS	8/17/1946	9/1/1946 GORDON	2321 00168
47017001880000		12/1/1946 DIVERSIFIED RESOURCES INCORPORATED	955 GR	GAS	39.1641		2 JESSE WILLIAMS		11/1/1946 SALT SD 1	1344 00172
47017001720001		12/1/1946 DIVERSIFIED RESOURCES INCORPORATED	955 GR	GAS	39.1641		2 JESSE WILLIAMS	10/17/1946	11/1/1946 GORDON	2317 00172
47017001720001		6/1/1948 EQT PRODUCTION COMPANY	1103 GR	GAS	39.1510		4708 F L LODGE 3	4/17/1948	S/2/1948 BIG INJUN /SD/	2008 00185
47017002070000		10/1/1954 DIVERSIFIED RESOURCES INCORPORATED	883 GR	GAS	39.1471		7 JESSIE WILLIAMS 3	8/17/1954	9/1/1954 SALT SD 2	1331 00207
47017002070001		9/1/1962 DIVERSIFIED RESOURCES INCORPORATED	883 GR	GAS	39.1471		7 JESSIE WILLIAMS 3	7/18/1962	8/2/1962 BIG INJUN /SD/	1736 00207
47017003650000		9/1/1960 BEECHLICK OIL INCORPORATED	1152 GR	10&1G	39.1540	-80.7806	1 JESSIE WILLIAMS ET VIR	7/18/1960	8/2/1960 POCONO	2033 00365
47017004310000)	11/1/1960 ASH & CHAPMAN	937 GR	10&1G	39.1449		1 DORSEY E HUFF	9/17/1960	10/2/1960 BIG INJUN /SD/	1904 00431
47017004680000	ו	ASH & CHAPMAN		UNKWN	39.1482		1 ROY RUPPERT HEIRS			00468
47017005110000		11/1/1961 MID PINE DEVELOPMENT	1009 GR	10&1G	39.1580		1 H C CHAPMAN HEIRS	9/17/1961	10/2/1961 BIG INJUN /5D/	1950 00511
47017006130000		10/1/1961 PENNZOIL COMPANY	944 GR	ABD-GW	39.1363		3 ANDREW HURST	8/17/1961	9/1/1961 BIG INJUN /5D/	2094 00613
47017007660000		8/1/1962 BEECHLICK OIL INCORPORATED	935 GR	10&1G	39.1549		2 JESSIE WILLIAMS ET VIR	6/17/1962	7/2/1962 BIG INJUN /SD/	1847 00766
47017008350000	.,.,	7/1/1962 DOLLEY ED LEE	1068 GR	ABDOGW	39.1478		1 H C CHAPMAN	5/17/1962 12/18/1963	6/1/1962 BIG INJUN /SD/ 1/2/1964 GORDON	2084 00835 2459 01074
47017010740000 47017012830000		2/1/1964 BEECHLICK OIL INCORPORATED 8/1/1965 MEADOWS S L JR PRODUCTION COMPANY	949 GR 1041 GR	GAS 10&1G	39.1557 39.1491		3 JESSIE WILLIAMS ET AL 3 THURMAN SPURGEON	6/17/1965	7/2/1965 BIG INJUN /SD/	2018 01283
47017012830000		9/1/1965 MEADOWS S L JR PRODUCTION COMPANY	1117 GR	10&1G	39.1522		1 S L CHAPMAN	7/18/1965	8/2/1965 BIG INJUN /SD/	2090 01293
47017012980000		9/1/1965 MEADOWS 5 L JR PRODUCTION COMPANY	1282 GR	10&1G	39.1545		2 S L CHAPMAN	7/18/1965	8/2/1965 BIG INJUN /SD/	2232 01298
47017013050000		3/24/1966 PENNZOIL COMPANY	893 GR	D&A-O	39.1464		6 SPURGEON THURMAN	8/17/1965	9/1/1965 PRICE	1900 01305
47017013160000		1/5/1966 EQT PRODUCTION COMPANY	1131 GR	OIL	39.1503		6208 W J HICKMAN 2	9/13/1965	9/28/1965 POCONO	2003 01316
47017013170000		2/27/1919 EQT PRODUCTION COMPANY	1057 GR	GAS	39.1416	-80.7845	PO-4709 F L LODGE	1/22/1919	2/6/1919 BIG INJUN /SD/	1929 01317
47017013170001	1	11/1/1965 EQT PRODUCTION COMPANY	1057 GR	OIL	39.1416	-80.7845	4709 F L LODGE	9/9/1965	9/24/196S POCONO	2001 01317
47017013310000		PENNZOIL COMPANY		PSEUDO	39.1559		2 THOMAS HICKMAN			01331
47017013670000		10/1/1966 EQT PRODUCTION COMPANY	1071 GR	OIL	39.1471		6210 F L LODGE	8/17/1966	9/1/1966 POCONO	1998 01367
47017014080000		10/1/1966 JAY-BEE OIL & GAS INC	1241 GR	10&16	39.1371		1 C A VANHORN	8/17/1966	9/1/1966 POCONO	2300 01408 3000 01409
47017014090000		10/1/1966 JAY-BEE OIL & GAS INC	1219 GR	10&16	39.1384		2 MELVILLE CONLEY	8/17/1966	9/1/1966 HAMPSHIRE	1781 01429
47017014290000		3/1/1967 EQT PRODUCTION COMPANY 2/1/1967 FRIESTAD FRANCIS	873 GR 913 GR	OIL D&A-G	39.1449 39.1755		6213 F L LODGE 1 M L HAUGHT	1/15/1967 12/18/1966	1/30/1967 POCONO 1/2/1967 BIG INJUN /SD/	1784 01433
47017014330000		6/1/1967 FRIESTAD FRANCIS 6/1/1967 EQT PRODUCTION COMPANY	1081 GR	OIL	39.1423		6214 F L LODGE	4/17/1967	5/2/1967 BIG INJUN /SD/	2027 01452
47017014520000 47017014700000		7/11/1968 JAY-BEE OIL & GAS INC	1234 GR	GAS	39.1344		2 C A VANHORN	5/27/1968	6/11/1968 GORDON	2879 01470
4701701560000		10/1/1969 EQT PRODUCTION COMPANY	1011 GR	10&16	39.1403		6217 F L LODGE	8/17/1969	9/1/1969 BIG INJUN /SD/	1943 01560
47017016230000		8/8/1971 WARREN DRILLING	1226 GR	ABD-OW	39.1565		4/1-ADAMS/ MAXWELL W B	6/30/1971	7/10/1971 UNKNOWN	2700 01623
47017018810000	3	5/27/1978 EQT PRODUCTION COMPANY	908 GR	OIL	39.1416	-80.7882	6230 F L LODGE	3/17/1978	3/27/1978 MISSISSIPPIAN	1893 01881
47017018850000	0	5/1/1978 EQT PRODUCTION COMPANY	863 GR	OIL	39.1418	-80.7882	6232 F L LODGE	3/17/1978	4/1/1978 BIG INJUN /SD/	1893 01885
47017019660000		CONSOL GAS COMPANY	940 GR	GAS	39.1372		S29S J ADAMS		HAMPSHIRE	2520 01966
47017019660001		6/5/1957 CONSOL GAS COMPANY	940 GR	GAS	39.1372		S295 JOSHUA ADAMS	1/29/1957	2/13/19S7 HAMPSHIRE	2520 01966
47017020500000		6/18/1918 EQT PRODUCTION COMPANY	1066 GR	ABD-GW	39.1695		4653 GASTON MARY V	3/23/1918	4/23/1918 BIG INJUN	1823 02050
47017020500001		10/24/1926 EQT PRODUCTION COMPANY	1066 GR	ABD-GW	39.1695		4653 GASTON MARY V	8/4/1926 3/24/1996	9/4/1926 BIG INJUN 4/24/1996 WEIR /SD/	1944 02050 2795 02054
47017020540000		6/1/1996 UNKNOWN	1247 GR	ABD-GW	39.1739 39.1585		4666 GASTON 4672 JACKSON LEESON		10/10/1918 SALT SD 2	1639 02055
47017020550000 47017020570000		11/6/1918 EQUITABLE GAS COMPANY UNKNOWN	1097 GR	ABD-GW PSEUDO	39.1585		4672 JACKSON LEESON 4684 GASTON	3/ 23/ 1310	10/10/1310 SWCI 30 5	02057
47017020570000		3/2/1920 EQT PRODUCTION COMPANY	1035 GR	GAS	39.1668		4744 GASTON C	12/3/1919	1/3/1920 BIG INJUN	1833 02068
47017020690000		1/1/1981 EQT PRODUCTION COMPANY	1188 GR	GAS	39.1632		4749 GASTON C		11/24/1980 KEENER /SD/	5053 02069
47017020720000		7/16/1920 UNKNOWN	1017 GR	GAS	39.1802		4768 MAXWELL	6/9/1920	6/24/1920 BIG INJUN /SD/	1850 02072
47017021070000		7/14/1930 EQT PRODUCTION COMPANY	1012 GR	GAS	39.1658		4983 ROSA B RYMER	5/19/1930	6/3/1930 CHEMUNG	2502 02107
47017021130000		6/8/1920 EQT PRODUCTION COMPANY	1083 GR	ABD-GW	39.1689	-80.8044	6110 GASTON	2/29/1920	3/31/1920 GORDON /5D/	2485 02113
47017021140000		11/15/1920 EQT PRODUCTION COMPANY	972 GR	ABD-GW	39.1609		6111 GASTON R J	6/12/1920	7/12/1920 GORDON	2400 02114
47017021150000		1/1/1981 EQUITABLE PRODUCTION COMPANY	1063 GR	ABD-GW	39.1630		WV 606112 GASTON		11/29/1980 BIG INJUN	1820 02115
47017023800000		4/11/1919 EQT PRODUCTION COMPANY	1068 GR	GAS	39.1507		4703 W J HICKMAN	3/27/1919	4/11/1919 POCONO	2093 02380
47017023860000		2/20/1914 EQT PRODUCTION COMPANY	990 GR	GAS	39.1382		4244 F L LODGE		12/26/1913 CHEMUNG	2604 02386 2636 02461
47017024610000 47017030380000		9/6/1979 MURVIN & MEIER OIL COMPANY 11/30/1981 ENERGY CORPORATION OF AMERICA INC	1230 GR 855 KB	GAS GAS	39.1802		11 MAXWELL BRENT W J-466 GRIMM DONALD		8/16/1979 DEVONIAN /SD/ 11/17/1981 DEVONIAN /SH/	2636 02461 5047 03038
4101103030000		11/30/1301 LITERGY CORFORATION OF AMERICA INC	03 60	3~	33.13/1	-00.0130	- 155 OMBINI DOMALD	11//1301	,,	2277 03030

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						Gas		tries 2017/1988 1. 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
						<u>o</u>	2018	9		
47017035820000		10/28/1987 CONSOL GAS COMPANY	1020 KB	GAS	39.1482	-80.7771 3000 THURMAN SPURGEON	20	G 29/29/1987	10/9/1987 DEVONIAN/SH/	5343 03582
47017035940000		10/17/1987 TERM ENERGY	968 KB	GAS	39.1650	-80.8068 87-3-25 MCNEESE	9	E 9/23/1987	10/3/1987 ALEXANDER	5012 03594
47017036410000		6/18/1988 TERM ENERGY	1220 KB	GAS	39.1795 39.1795	-80.7970 88-2 FARR CAROLYN	•		6/6/1988 DEVONIAN /SD/ 8/15/2002 BRADFORD	5279 03641 5279 03641
47017036410001 47017036420000		10/3/2002 TERM ENERGY 6/27/1988 TERM ENERGY	1220 KB 1238 KB	GAS-WO GAS	39.1795 39.1698	-80.7970 1 FARR -80.7869 1(88-3) PRUNTY MYRTLE (M. 7)		0 0 c/2/1000	6/12/1988 DEVONIAN /SH/	5432 03642
47017038160000		9/20/1990 ENERGY CORPORATION OF AMERICA INC	1075 KB	GAS	39.1573	-80.7869 1(88-3) PRONIT MYRILDE 0 -80.8027 1 MERT/MAXWELL F E -80.7880 6 WILLIAMS JESSIE	EC	☐ E 9/33/1999	9/1/1990 DEVONIAN /SD/	5235 03816
47017038170000		6/21/1990 ENERGY CORPORATION OF AMERICA INC	1220 K8	GAS	39.1599	-80.7984 2 MERT/MAXWELL F	DE	\$ 5/26/1990 9/1/1990	6/5/1990 DEVONIAN /SD/	5323 03817
47017038280000		9/28/1990 ENERGY CORPORATION OF AMERICA INC	930 K8	GAS	39.1588			> \geq 9/1/1990	9/11/1990 DEVONIAN /SD/	5107 03828
47017038310000 47017038320000		9/18/1990 ENERGY CORPORATION OF AMERICA INC 9/20/1990 ENERGY CORPORATION OF AMERICA INC	1260 KB 1102 KB	GAS GAS	39.1580 39.1545	-80.7928 4 MERT/WILLIAMS -80.7920 5 MERT/WILLIAMS		8/18/1990 8/25/1990	8/28/1990 DEVONIAN /SD/ 9/4/1990 DEVONIAN /SD/	5422 03831 5283 03832
47017038320000		8/9/1990 TERM ENERGY	1102 KB 1140 KB	GAS	39.1545	-80.7920 5 MERT/ WILLIAMS -80.8187 2 CASSIDY JOAN		7/13/1990	7/23/1990 DEVONIAN /SD/	5259 03842
47017038420001		11/21/2002 TERM ENERGY	1140 KB	GAS-WO	39.1789	-80.8187 2 CASSIDY			11/13/2002 BIG INJUN	5259 03842
47017039070000		9/29/1991 ENERGY CORPORATION OF AMERICA INC	1349 KB	GAS	39.1743	-80.7879 BLAUSER/MAXWELL MAXWELL W			9/24/1991 DEVONIAN /SD/	5534 03907
47017039540000		6/30/1992 TERM ENERGY	905 KB	GAS	39.1676	-80.8135 GASTON5 GASTON SAMMUEL ETA	L	6/7/1992	6/17/1992 DEVONIAN /SD/	4960 03954
47017039540001 47017039560000		9/30/2002 TERM ENERGY 8/1/1992 TERM ENERGY	905 KB 945 KB	GAS-WO GAS	39.1676 39.1721	-80.8135 S GASTON SAMUEL D -80.8166 CASSIDY3 HAUGHT MABEL G ETAL		8/6/2002 6/14/1992	9/23/2002 WEIR /SD/ 6/24/1992 DEVONIAN /SD/	4960 03954 5017 03956
47017039560000		11/21/2004 TERM ENERGY	945 KB	GAS-WO	39.1721	-80.8166 3 CASSIDY		9/24/2004	10/6/2004 BIG INJUN	5017 03956
47017040330000		9/15/1993 TERM ENERGY	970 GR	GAS	39.1646	-80.7976 1 MATHENY BARRY L ETALS		8/16/1993	8/26/1993 ALEXANDER	5000 04033
47017047100000		1/27/2003 KEY OIL COMPANY	1206 GR	GAS	39.1677	-80.7933 1 ADAM5		12/22/2002	1/13/2003 DEVONIAN UPPER	5343 04710
47017047110000		1/20/2003 KEY OIL COMPANY	1215 GR	GAS	39.1677	-80.8019 1 RYMER		12/22/2002	1/2/2003 DEVONIAN UPPER	5341 04711
47017047280000 47017047390000		5/4/2004 CONSOL GAS COMPANY 10/22/2003 KEY OIL COMPANY	1135 GR 1144 GR	GAS GAS	39.1671 39.1567	-80.7839 6294 MORRIS IKE L -80.7787 3 HICKMAN		4/29/2003 6/17/2003	4/24/2004 DEVONIAN 10/9/2003 DEVONIAN /5H/	2720 04728 5313 04739
47017047490000		10/15/2003 KEY OIL COMPANY	1215 GR	GAS	39.1578	-80.7835 2 HICKMAN		6/17/2003	10/4/2003 DEVONIAN /SH/	5347 04740
47017047410000		10/4/2003 KEY OIL COMPANY	1202 GR	GAS	39.1617	-80.7811 1 HICKMAN		6/17/2003	9/29/2003 DEVONIAN /SH/	5347 04741
47017048180000		3/1/2005 KEY OIL COMPANY	959 GR	GAS		-80.7753 2 CHAPMAN H C		4/19/2004	2/16/2005 DEVONIAN /SH/	2681 04818
47017049350000		3/5/2005 KEY OIL COMPANY	1203 GR	GAS	39.1665			1/24/2005	2/23/2005 GORDON	2770 04935
47017049360000 47017049370000		5/20/2005 KEY OIL COMPANY 5/26/2006 KEY OIL COMPANY	1247 GR 1224 GR	GAS GAS	39.1641 39.1628	-80.7893 2 ADAMS A -80.7928 3 ADAMS A		1/24/2005 2/8/2005	5/11/2005 DEVONIAN 5/17/2005 DEVONIAN /5H/	2807 04936 2774 04937
47017049380000		6/5/2005 KEY OIL COMPANY	1028 GR	GAS	39.1662			2/28/2005	5/23/2005 DEVONIAN	2581 04938
47017049420000		10/14/2005 CONSOL GAS COMPANY	1171 GR	GAS	39.1654	-80,7878 14083 MORRIS I L		2/8/2005	9/29/2005 GORDON	2762 04942
47017049430000		12/10/2005 CONSOL GAS COMPANY	984 GR	GAS	39.1625				11/16/2005 GORDON	2512 04943
47017049460000		11/29/2005 CONSOL GAS COMPANY	1123 GR	GAS	39.1610	-80.7884 14082 MORRIS I L			11/11/2005 DEVONIAN /SH/	2720 04946
47017050310000 47017050320000		7/5/2005 SPENCER ENTERPRISES 6/27/2005 SPENCER ENTERPRISES	965 GR 1184 GR	GAS GAS	39.1561 39.1587	-80.8070 1-A GRIMM -80.8038 2-A GRIMM		6/10/2005 6/8/2005	6/20/2005 BIG INJUN 6/18/2005 GORDON	2070 05031 2730 05032
47017050320000		7/5/2005 SPENCER ENTERPRISES	940 GR	GAS	39.1591			6/14/2005	6/24/2005 BIG INJUN	1950 05037
47017050580000		10/1/2005 SPENCER ENTERPRISES	1206 GR	GAS	39.1590	-80.7835 3 HICKMAN		8/22/2005	8/17/2005 BIG INJUN	2285 05058
47017051610000		6/28/2006 KEY OIL COMPANY	1100 GR	GAS	39.1696	-80.7948 6 ADAM5 A		2/21/2006	6/15/2006 GORDON /SD/	2631 05161
47017051620000		6/28/2006 KEY OIL COMPANY	1201 GR	GAS	39.1671 39.1488	-80.7984 7 ADAMS A		2/21/2006 10/16/2006	6/12/2006 GORDON /SD/ 11/15/2006 ALEXANDER	2755 05162 5402 05301
47017053010000 47017056290000		2/2/2007 EQT PRODUCTION COMPANY 9/4/2008 EQT PRODUCTION COMPANY	978 GR 866 KB	GAS GAS	39.1488 39.1480	-80.7980 WV S10808 LEESON J -80.7950 WV S10840 LEESON J		4/15/2008	6/10/2008 ONONDAGA /LM/	6332 05629
47017302630000	1/1/1938	10/24/1918 BEREN I H	1159 GR	ABD-GW	39.1641	-80.7888 4665 ALEXANDER ADAMS		9/1/1918	9/16/1918 POCONO	2054 30263
47017303370000	10/10/1940	6/24/1917 PITTSBURGH & W VA GAS	1084 GR	ABD-GW	39.1537	-80.8063 4572 W BRENT MAXWELL		S/9/1917	S/24/1917 POCONO	1958 30337
47017307290000	3/23/1949	5/17/1919 HOPE NATURAL GAS	979 GR	ABD-GW	39.1461	-80.7748 S468 H C CHAPMAN		3/24/1919	4/8/1919 HAMPSHIRE	2526 30729
47017311770000 47017704330000	4/16/1964	5/17/1919 EQUITABLE GAS COMPANY CARTER OIL & GAS	1064 GR	ABD-GW PSEUDO	39.1700 39.1657	-80.8063 6107 E M GASTON -80.8055 1 S M GASTON		3/23/1919	4/7/1919 POCONO	1997 31177 70433
47017732600000		HOPE NATURAL GAS		UNKWN	39.1622					73260
47017732620000		UNKNOWN		UNKWN	39.1694	-80.7884 M & F GASTON				73262
47017732630000		EQUITABLE RESOURCES EXPLORATION INC		UNKWN	39.1700	-80.7873 4663 M & F GASTON				73263
47017732640000		UNKNOWN		UNKWN	39.1741					73264 73272
47017732720000 47017732800000		UNKNOWN HOPE NATURAL GAS		UNKWN	39.1786 39.1803	-80.7963 4579 M J LEESON -80.8192 5885 MABEL HAUGHT ET AL				73280
4701773200000		HOPE NATURAL GAS		UNKWN	39.1630					73300
47017733010000		HOPE NATURAL GAS		UNKWN	39.1706	-80.8176 6491 W B MAXWELL HRS				73301
47017733020000		HOPE NATURAL GAS		UNKWN	39.1757	-80.8155 5812 W B MAXWELL HRS				73302
47017733050000		HOPE NATURAL GAS		UNKWN	39,1691	-80.8049 7034 SAM GASTON				73305 73306
47017733060000 47017733110000		UNKNOWN UNKNOWN		UNKWN	39.1659 39.1632	-80.8069 1 SAM GASTON -80.7937 4749 C GASTON				73306 73311
47017733130000		UNKNOWN		UNKWN	39.1596					73313
47017733140000		HOPE NATURAL GAS		UNKWN	39.1612	-80.8047 7035 SAM GASTON				73314
47017733150000		UNKNOWN		UNKWN	39.1593					73315
47017733160000		UNKNOWN		UNKWN UNKWN	39.1517 39.1397	-80.7976 4660 F MAXWELL -80.7733 1 RAY CONLEY				73316 73344
47017733440000 47017733690000		UNKNOWN UNKNOWN		UNKWN	39.1535	-80.7804 365 JESSE WILLIAMS				73369
47017733700000		PHILADELPHIA OIL		UNKWN	39.1537	-80.7830 4245 JESSE WILLIAMS				73370
47017733710000		HOPE NATURAL GAS		UNKWN	39.1475					73371
47017733720000		UNKNOWN		UNKWN	39.1477	-80.7815 C-142 THOMAS SPURGEON				73372





WW-6B (04/15)

API NO. 47-017		
OPERATOR WELL	NO.	OXF43H32
Well Pad Name:	OXF43	3

WV Department of Environmental Protection

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

1) Well Operator:	EQT Production C	ompany	306686	Doddridge	South West/ Cove	Oxford
			Operator ID	County	District	Quadrangle
2) Operator's Wel	Number: OXF43H3	2	Well P	ad Name: OXF	43	
3) Farm Name/Su	rface Owner: Cathy Je	ean Wetze	l, et al Public Ro	oad Access: Rt.	20	
4) Elevation, curre	ent ground: 1229	El	evation, propose	d post-construct	ion: 1229	
) Gas X	Oil		derground Stora		
(b)If Gas Shallow	X	Deep	1411		
	Horizontal	X				
6) Existing Pad: Y	es or No Yes					
7) Proposed Targe Target formation is	t Formation(s), Depth Marcellus at a depth of 6	(s), Antic 666 with the	ipated Thickness anticipated thickness to		Pressure(s): anticipated targe	et pressure of 2951 PSI
3) Proposed Total	Vertical Depth: 666	6				
) Formation at To	otal Vertical Depth:	Marcellus	1	,	,	
0) Proposed Tota	1 Measured Depth:	19255				
1) Proposed Hori	zontal Leg Length:	9220				
2) Approximate I	Fresh Water Strata De	pths:	70, 221, 307, 3	382		
	ermine Fresh Water D	10000	By offset wells			
	Saltwater Depths: No	_	nt in offset wells			
5) Approximate (Coal Seam Depths: 3	22	10000			
6) Approximate I	Depth to Possible Voice	d (coal mi	ne, karst, other):	None reported	d	
	l well location contain or adjacent to an activ		ns Yes	No	, X	
(a) If Yes, provid	le Mine Info: Name					RECEIVED Office of Oil and Ga
	Depth	: 1				404
	Seam:					APR
	Owner	r:				WV Department o
			1			Environmental Protect
			V. UNL	/		Office of Oil and
				10		APR 1 0 20
			1111	1 1		Page 1 of 3

WW-6B
(04/15)

API NO. 47- 017 -			
OPERATOR WELL	NO.	OXF43H32	
Well Pad Name:	OXF4	3	

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	49 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	532	532	319 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	5291	5291	1165 ft^3 / CTS
Production	5 1/2	New	P-110	20	19255	19255	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40'	
Liners			L. A.P			above top perf or 80° inclination	

ТУРЕ	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	1 1					200000000000000000000000000000000000000	1.10
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	10112		1.120/2.000
Liners			7.14	7100			

PACKERS

Kind:		
Sizes:	- Un.	
Depths Set:		

PAF /19

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Page 2013 0-9-2019

WW-5B (10/14)

API	NO. 47-017	~		
	OPERATOR W	/ELL	NO.	OXF43H32
	Well Pad Nar	ne:	OXF43	() ·

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 3565'. 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 10000 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% Calcium Chloride. Used to speed the setting of cement slurries Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries. Production:

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 % Calculum 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.

1/1/19

Office of Oil and Gas
Page 3 of 2
APR 0 9 2019



west virginia department of environmental protection

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely.

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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DEC 6 2018



west virginia department of environmental protection

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

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

Promoting a healthy environment.

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DEC 6 2018

CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

> RECEIVED Office of Oil and Gas

> > DEC 6 2018

WV Department of Environge of the Environe Envi RECEIVED Office of Oil and Gas APR 0 9 2019

Well **OXF43H32 EQT Production**

Oxford Quad Doddridge County, WV

Azlmuth 337 11385 Vertical Section 516241 Enertia#

Note:	Diagram	15	riot	to	scala	
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	Тор	Base			Casing and Cementing			Deepest Fresh Water	er: 382'
Formations	TVD	TVD			Type	Conductor	Surface	Intermediate	Production
Conductor	4	0			Hole Size, In.	30	17 1/2	12 3/8	8 1/2
8			-		Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
Base Fresh Water	38	32	111	111	Casing Wall Thickness, In.	0.312	0.380	0.395	0.361
			111	111	Depth, MD	40'	532'	5,291'	19,255'
Surface Casing	53	32	4		Weight	85.6#	54.5#	40#	20#
Dear Deal Book					Grade	A-500	J-55	A-500	P-110
Base Red Rock	82		- 11		New or Used	New	New	New	New
Maxton	1103 -		11	11	Burst (psi)	1378	2,700	3,950	12,640
Big Lime	1979 -		- 11	11	Cement Class	Α	A/Type 1	A/Type 1	A/H
Big Injun Weir	2091 -		- 11	11	Cement Yield	1.18	1.19	1.19	1.123 / 2.098
Gantz	2265 - 2465 -	2547	- 11		Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zon
Fifty foot	2547 -		. 11	11	Method	Displacement	Displacement	Displacement	Displacement
Thirty foot Gordon	2645 - 2687 -				Est. Volume (cu ft)	49	546	2,094	#N/A
Forth Sand Bayard Warren Speechley Balltown A	2787 - 2967 - 3301 - 3367 - 3872 -	2854 3038 3367 3872			Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Calcium Carbonate, Fluid Loss Extender, Dispersent, Viscosifit Defoamer, POZ, Bonding Agen Retarder, Anti-Settling/Suspensi Agent
Riley Benson Alexander Intermediate Casing Sonyea Middlesex Genesee Geneseo Tully Hamilton Marcellus Production Casing Onondaga	4470 - 4846 - 5148 - 528 6324 - 6474 - 6573 - 6615 - 6628 - 6646 -	4846 4940 5241 91 6474 6464 6573 6615 6628 6646		KOP @ 3,565'					
			Land cu	rve @ 6,666' TVD 10,035' MD	_		Est. TD @	6,666' 19,25	TVD 5' MD

Proposed Well Work:

Drill and complete a new horizontal well in the Marcellus formation. Drill the vertical to an approximate depth of 3565'.

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

9,220' Lateral



November 29, 2018

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

Re: Casing on OXF43

Dear Mr. Smith,

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.

If you have any questions, please do not hesitate to contact me at (304) 848-0035.

Sincerely,

Erin Spine

Regional Land Supervisor

Enc.

WW-9 (4/16)

API Number 47 - 017

Operator's Well No. 0xF43H32

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 Will a pit be used? Yes No 🗸	No
If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes No V 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 outlings from the drilling fluid. The prepared for transportation to an off-site disposal facility.	e drill cuttings are then
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Att	ached
-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 West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permit where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POL on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protect provisions of the permit are enforceable by law. Violations of any term or condition of the general permits are regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the infor application form and all attachments thereto and that, based on my inquiry of those individuals important on the information, I believe that the information is true, accurate, and complete. I am aware penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature	tion. I understand that the nit and/or other applicable rmation submitted on this mediately responsible for
Company Official (Typed Name) Erin Spine	RECEIVED
Company Official Title Regional Land Supervisor	Office of Oil and Gas
Company official Title	APR 0 9 2019
Subscribed and sworn before me this 29 day of NOVEMBEY , 2018	WV Department of
Allecca & Marytreet Norary Public	NOTATE OF WEST VIRGINIE CEIVED
My commission expires 4-7-2020	Eat PRODUCTION CONTINUE OF Oil and Gas BRIDGEPOIT, NY 2020

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.

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WV Department of Environmental Protection RECEIVED Office of Oil and Gas

	ompany	Operator's v	Vell No. OXF43H32
Proposed Revegetation Tree	atment: Acres Disturbed n	o additional Prevegetation pl	-1
Lime 3	Tons/acre or to corre	ct to pH 6.5	
Fertilizer type Gr	anular 10-20-20	· ·	
Fertilizer amount_	1/3	lbs/acre	
Mulch_2		_Tons/acre	
		Seed Mixtures	
Т	emporary	Perma	nent
Seed Type KY-31	lbs/acre 40	, Seed Type Orchard Grass	lbs/acre 15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15	- Constitution of the state of	and the control of th
Attach: Maps(s) of road, location, porovided). If water from the acreage, of the land applicat	pit will be land applied, inc	d application (unless engineered plans incluctude dimensions (L \times W \times D) of the pit, and	ding this info have been d dimensions (L x W), and area in
Maps(s) of road, location, p provided). If water from the creage, of the land applicate Photocopied section of invo	e pit will be land applied, incition area.	clude dimensions (L x W x D) of the pit, and	d dimensions (L x W), and area in
viaps(s) of road, location, porovided). If water from the creage, of the land applicate	e pit will be land applied, incition area.	clude dimensions (L x W x D) of the pit, and	d dimensions (L x W), and area in
Maps(s) of road, location, provided). If water from the creage, of the land applicate hotocopied section of involved hotocopied section of involved by:	e pit will be land applied, incition area.	clude dimensions (L x W x D) of the pit, and	d dimensions (L x W), and area in
Maps(s) of road, location, p rovided). If water from the creage, of the land applical thotocopied section of invo	e pit will be land applied, incition area.	clude dimensions (L x W x D) of the pit, and	d dimensions (L x W), and area in
Maps(s) of road, location, provided). If water from the creage, of the land applicate hotocopied section of involved hotocopied section of involved by:	e pit will be land applied, incition area.	clude dimensions (L x W x D) of the pit, and	d dimensions (L x W), and area in
Maps(s) of road, location, p rovided). If water from the creage, of the land applical thotocopied section of invo	e pit will be land applied, incition area.	clude dimensions (L x W x D) of the pit, and	RECEIVED
Maps(s) of road, location, provided). If water from the creage, of the land applicate hotocopied section of involan Approved by:	e pit will be land applied, incition area.	clude dimensions (L x W x D) of the pit, and	d dimensions (L x W), and area in
Maps(s) of road, location, p provided). If water from the creage, of the land applicate Photocopied section of invo	e pit will be land applied, incition area.	clude dimensions (L x W x D) of the pit, and	RECEIVED

EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

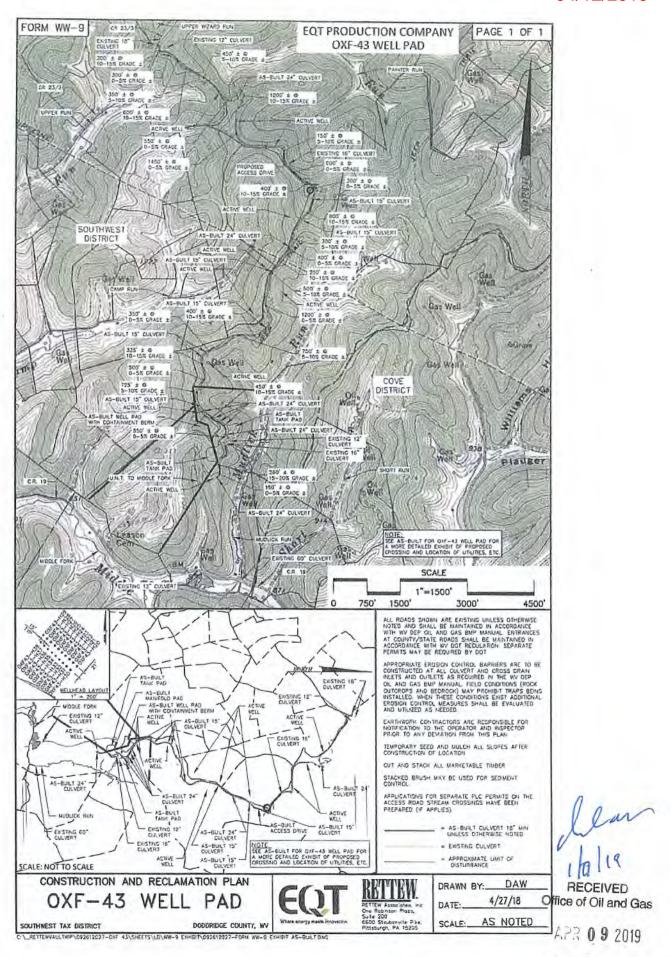
P.O. Box 430
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobel County/Jackson Township
Permit # 4037

KING EXCAVATING CO.

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

> RECEIVED Office of Oil and Gas

DEC 6 2018





Site Specific Safety and Environmental Plan

EQT
OXF43 Pad
West Union
Doddridge County, WV

CXF4.3H.32	For Wells:
Date Prepared: February 21, 2018 EQT Production	WV Oil and Gas Inspector
Rapional Land Supervisar 11/29/18 Date	Date Date

RECEIVED
Office of Oil and Gas

1 APR 0 9 2019

EQT Production Water Plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowbrook Landfill

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

Waste Management - Meadowbrook Landfill

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

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Washington County/Belpre Twp.
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TRIAD ENERGY

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

KING EXCAVATING CO.

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

Office of Oil and Gas

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W Department of Environmental Protection

EQT Water Management Plan

Section V. Planned Additives to be used in Fracturing

Material	Approximate Percentage
Water	95.5%
Sand	4.2%
Friction Reducer	0.1%
Biocide	0.05%
Scale Inhibitor	0.03%
15% Hydrochloric Acid	0.06%
Gelling Agent	0.02%
Oxidizing Breaker	0.0009%
Enzyme Breaker	0.0009%

Office of Oil and Gas
DEC 6 2018

En:

Er



	tal Date:
EQT Well Number:	
Survey / Engineering Company:RETTEW Associates, Inc.	
Site Number: 07-16-7 Distance from Gas Well (feet): 1583'	
Surface Owner / Occupant: Cathy Jean Wetzel,ET AL	☐ Landowner Requested
322 Zacks Run Road, RT 2 Box 317, Address: Mount Claire, WV 26408 Phone #:	
Field Located Date: 4/20/17 Owner home during survey (ye	
Coordinates: 39.155761, 80.79576216 (decimal degrees – NA	D 83) (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1 st :2 nd :Date Door Hanger	
Comments: Spring, no update from October 2018 visit	
322 Zacks Run Road, RT 2 Box 317, Address: Mount Claire, WV 26408 Phone #:	Sampling Landowner Decline Sampling
Surface Owner / Occupant: Cathy Jean Wetzel, ET AL 322 Zacks Run Road, RT 2 Box 317, Address: Mount Claire, WV 26408 Phone #: Field Located Date: 4/20/17 Owner home during survey (yes/no Coordinates: 39.15199707, 80.79445984 (decimal degrees – NA	☐ Landowner Decline Sampling ☐ Unable to Contact (Further contact attempts to be
322 Zacks Run Road, RT 2 Box 317, Address:Mount Claire, WV 26408Phone #: Field Located Date:4/20/17Owner home during survey (yes/no Coordinates:39.15199707, 80.79445984 (decimal degrees – NA	Sampling Landowner Decline Sampling Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
322 Zacks Run Road, RT 2 Box 317, Address:Mount Claire, WV 26408Phone #: Field Located Date:4/20/17Owner home during survey (yes/no	Sampling Landowner Decline Sampling Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
322 Zacks Run Road, RT 2 Box 317, Address:Mount Claire, WV 26408Phone #: Field Located Date:4/20/17Owner home during survey (yes/no Coordinates:39.15199707, 80.79445984(decimal degrees - NA Contact Attempts (Date): 1st:2nd:Door Hanger Left	Sampling Landowner Decline Sampling Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
322 Zacks Run Road, RT 2 Box 317, Address:Mount Claire, WV 26408Phone #: Field Located Date:4/20/17Owner home during survey (yes/no Coordinates:39.15199707, 80.79445984(decimal degrees - NA Contact Attempts (Date): 1st:	Sampling Landowner Decline Sampling Vinable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
322 Zacks Run Road, RT 2 Box 317, Address:	Sampling Landowner Decline Sampling Vinable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline
322 Zacks Run Road, RT 2 Box 317, Mount Claire, WV 26408 Phone #: Field Located Date:4/20/17 Owner home during survey (yes/no Coordinates:39.15199707, 80.79445984 (decimal degrees - NA Contact Attempts (Date): 1st: 2nd: Door Hanger Left Comments: Spring,no update from October 2018 visit Site Number: O7-16-7 Distance from Gas Well (feet): 2567' Surface Owner / Occupant: Cathy Jean Wetzel, ET AL 322 Zacks Run Road, RT 2 Box 317, Address: Mount Claire, WV 26408 Phone #: Field Located Date: Owner home during survey (Yes/No): Field Located Date: Owner home during survey (Yes/No): Field Located Date: Owner home during survey (Yes/No):	Sampling Landowner Decline Sampling Vinable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline Sampling Vinable to Contact
322 Zacks Run Road, RT 2 Box 317, Address:Mount Claire, WV 26408Phone #: Field Located Date:4/20/17Owner home during survey (yes/no Coordinates:39.15199707, 80.79445984(decimal degrees - NA Contact Attempts (Date): 1st:2nd:Door Hanger Left Comments:Spring,no update from October 2018 visit Site Number:O7-16-7 Distance from Gas Well (feet):Surface Owner / Occupant:Cathy Jean Wetzel, ET AL322 Zacks Run Road, RT 2 Box 317,	Sampling Landowner Decline Sampling Vinable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline Sampling Vinable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Address:	Sampling Landowner Decline Sampling Vinable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) Landowner Requested Sampling Landowner Decline Sampling Vinable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)



EQT Well Pad Name: OXF43	Submittal Date:		
EQT Well Number:			
Survey / Engineering Company: R	ETTEW		
Site Number: 07-16-7 Distance for	rom Gas Well (feet):2872'	-	
Surface Owner / Occupant: Cathy J 322 Zacks Run Road, RT 2 Address: Mount Claire, WV 26408	Box 317, Phone #:		
Field Located Date: 4/20/17	Owner home during survey (yes/no):		
Coordinates: 39.15136349, 80.7987	4149 (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 O			
Site Number: 07-13-67 Distance for	rom Gas Well (feet):2616'		
Surface Owner / Occupant: Charles	R. Greathouse	☐ Landowner Requested	
	n, WV 26338 Phone #:	Sampling	
		Sampling	
Field Located Date: 10/23/18	Owner home during survey (yes/no):	☐ Unable to Contact (Further contact attempts to b	
Coordinates: 39.15583001, 80.8012	(decimal degrees – NAD 83)	made by EQT's third party pre-drill sampling lab)	
Contact Attempts (Date): 1st:	2 nd : Door Hanger Left:		
Comments: Well			
S VILLAND TO SERVICE AND ADDRESS OF THE PERSON OF THE PERS			
Site Number: 07-13-66 Distance f	rom Gas Well (feet): 2321		
Surface Owner / Occupant: Evelyn	G. Greathouse	☐ Landowner Requested	
Address: 147 Torrey Dr, Buckhanno	n, WV 26201 Phone #:	Sampling Landowner Decline	
	owner home during survey (Yes/No):	Sampling Unable to Contact	
Coordinates: 39.15729159, 80.8002		(Further contact attempts to be made by EQT's third party	
Contact Attempts (Date): 1st:		pre-drill sampling lab)	
	Z Date Door Hanger Lett	_	
Comments: Well		Office of Oil and Gas	
		DEC 6 5018	
		DEL mont	
		WV Department of Environmental Protes	
		ENVIRON	



FOT W. II M	Submittal Date:	
EQT Well Number: Survey / Engineering Company: _ RE	ETTEW	
Site Number: 07-13-41 Distance from	m Gas Well (feet): 3179	
Surface Owner / Occupant: William A. Address: 815 Mace St, Elk View, WV 2	Armentrout & Sandra Matheny 5071 Phone #:	☐ Landowner Requested Sampling ☐ Landowner Decline
	Owner home during survey (yes/no):	(Further contact attempts to be made by EQT's third party
	2 nd :Date Door Hanger Left:	pre-drill sampling lab)
Site Number: 07-14-8 Distance from		
Field Located Date: 04/21/17	Phone #: Owner home during survey (yes/no): (decimal degrees – NAD 83)	□ Landowner Requested Sampling □ Landowner Decline Sampling □ Unable to Contact (Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1st:	2 nd : Door Hanger Left: 18 - landowner response indicated parcel uninhabita	
	m Gas Well (feet): 3498'	
Site Number: 02-1-9 Distance from	in Gus Weil (lest).	
Surface Owner / Occupant: Wm & Ra	ndy Huff Decedents	□ Landowner Requested Sampling □ Landowner Decline
Site Number: 02-1-9 Distance from Surface Owner / Occupant: Wm & Rand Address: 826 Orange Ave, Coronado, Corolinates: 10/23/18 Ow Coordinates: 39.15651686, 80.7809458	ndy Huff Decedents A 92118 Phone #: ner home during survey (Yes/No):	Sampling



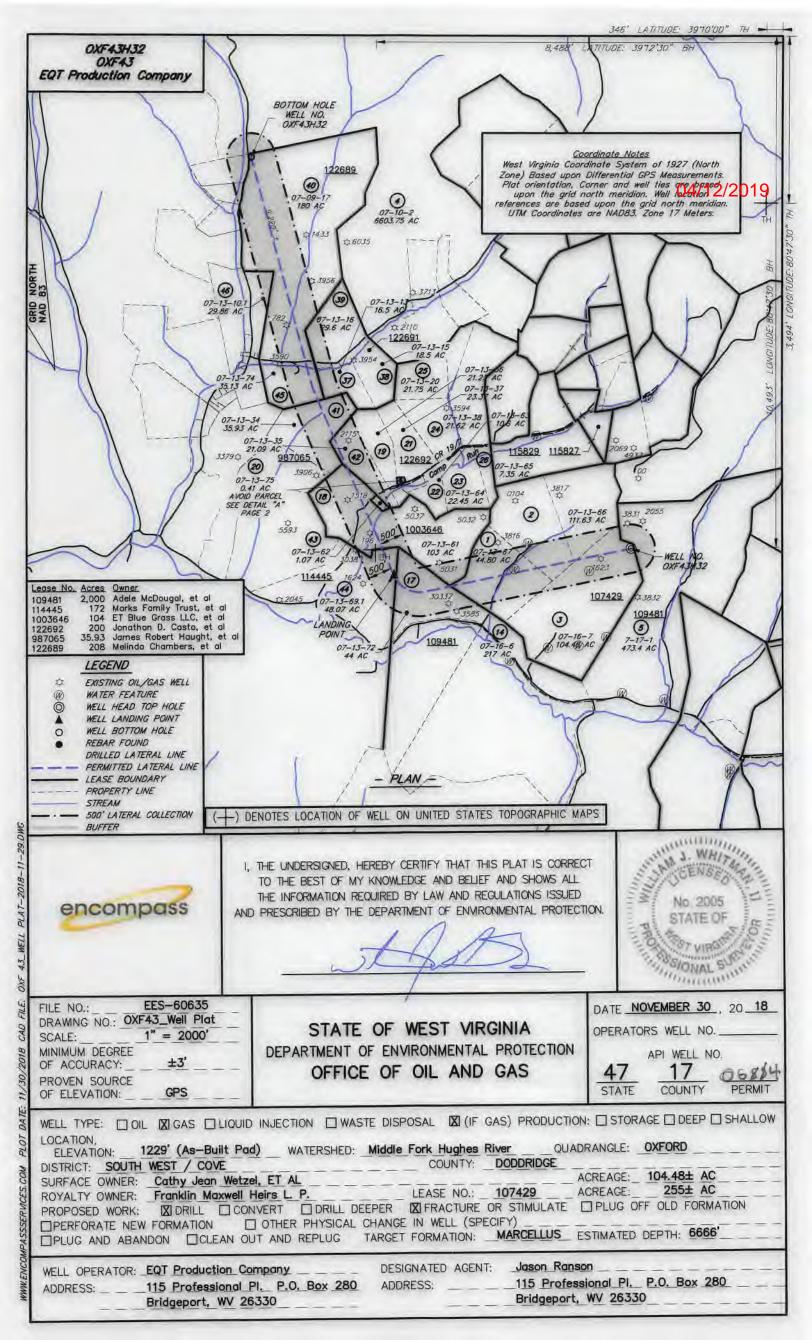
	Submittal Date:
EQT Well Number:	
Survey / Engineering Company; RETTEW	
Site Number: 07-17-1 Distance from Gas Well (feet	n): 3371 ¹
Surface Owner / Occupant: Randy E. Huff & William Let Address: 826 Orange Ave., Coronado, CA 92118 Field Located Date: 10/23/18 Owner hom Coordinates: 39.14843745, 80.79014573 (dec	Sampling Landowner Decline Sampling Unable to Contact Further contact effects to be
Contact Attempts (Date): 1st;2nd; Comments; Well	_Date Door Hanger Left:
Surface Owner / Occupant: Randy E. Huff & William Le. Address: 826 Orange Ave., Coronado, CA 92118 Field Located Date: 10/23/18 Owner home du Coordinates: 39.14876464, 80.79325539 (dec	Phone #: Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pra-drill sampling lab)
Comments: Well	
Site Number: 07-16-6 Distance from Gas Well (fee	t): <u>3538'</u>
Surface Owner / Occupant: Betty M. Ryan Address: 4153 Grove Summers Rd, New Milton, WV 264 Field Located Date: 10/23/18 Owner home during Coordinates: 39.15060189, 80.80151208 (dec	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st; 2nd;	Drug and Ge



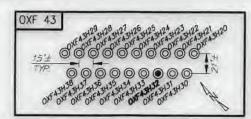
EQT Well Pad Name: OXF43	Submittal Date:	
EQT Well Number:		
Survey / Engineering Company:RETTEW		
Site Number: 07-14-10 Distance from Gas Well (feet):	
Surface Owner / Occupant: Walter Riesenberg, ET A	AL	☐ Landowner Requested
Address: Clarksville, OH 45113	Phone #:	Sampling
Field Located Date: Owner h		Sampling
Coordinates: Unconfirmed ((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		
Site Number: 07-10-2 Distance from Gas Well (feet):	
Surface Owner / Occupant: I L (Ike) Morris		☐ Landowner Requested
Address: Glenville, WV 26351	Phone #:	Sampling
Field Located Date: Owner home	e during survey (yes/no):	Sampling Unable to Contact
Coordinates: Unconfirmed ((Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 2nd:	Door Hanger Left:	
Comments: No features within 2600' buffer		
Site Number: 02-1-1 Distance from Gas Well (feet):	
Surface Owner / Occupant: Dale Arnold, ET AL		☐ Landowner Requested
Address: 4825 Roop Rd, Mount Airy, MD 21771	Phone #	Sampling
		Sampling
Field Located Date: Owner home du		☐ Unable to Contact (Further contact attempts to be made by EQT's third party
Coordinates: Unconfirmed		pre-drill sampling-lab//ED Gil and Gi
Contact Attempts (Date): 1st: 2nd:	Date Door Hanger Left:	DEC 6 2019
Comments: No features within 2600' buffer		WV Department Environmental Pro

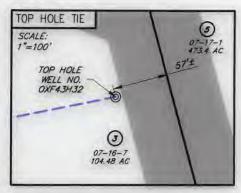


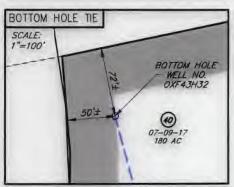
EQT Well Pad Name: OXF43 Submittal Date Submittal Date	te:
EQT Well Number:	
Survey / Engineering Company:RETTEW	
Site Number: 02-4-1 Distance from Gas Well (feet):	
Surface Owner / Occupant: Wilma Lee Leeson	☐ Landowner Requested
Address: 2687 Millview Dr, Columbus, OH 43207 Phone #:	
Field Located Date: Owner home during survey (yes/no):	
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	
Site Number: Distance from Gas Well (feet):	
Surface Owner / Occupant: Address: Phone #:	□ Landowner Requested Sampling □ Landowner Decline
Field Located Date: Owner home during survey (yes/no):	
Coordinates: (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:	
C'I- N1	
Site Number: Distance from Gas Well (feet):	
Surface Owner / Occupant:	☐ Landowner Requested Sampling
Address: Phone #:	Sampling
Field Located Date: Owner home during survey (Yes/No):	(Further contact attempts to be
Coordinates: (decimal degrees NAD 83)	pro-unit sampling tab)
Contact Attempts (Date): 1st: 2nd: Date Door Hanger Left:	RECEIVED Office of Oil and G
Comments:	DEC 6 20'



OXF43H32 OXF43 **EQT Production Company**







NO.	SURFACE OWNER
1	CHARLES R. GREATHOUSE
2	EVELYN G. GREATHOUSE
3	CATHY JEAN WETZEL, ET AL
17	DARLENE K. PRUNTY
18	EDRA LOUISE GRIMM
40	JOAN H. CASSIDY TRUST
41	KATHRYN GOODWIN, ET AL
42	JERRI KATHRYN FOWLER
44	JOHN W. & MARGARET L. JANSCHEK
45	BRADLEY A. COPELAND, SR.

NO.	ADJACENT OWNER
5	RANDY E. & WILLIAM LEE HUFF
19	RANDALL L. GRIMM
20	ERNEST JONES, ET AL
37	CAROLYN S. GASTON, ET AL
39	CAROLYN S. GASTON, ET AL
43	JERRI KATHRYN FOWLER
46	JOAN H. CASSIDY TRUST

OXF43H32 Well Point Coordinates

Top Hole Coordinates

NAD 27 S.P.C. (Ft.) NAD 27 GEO NAD 83 UTM 17N (M) NAD 83 S.P.C. (Ft.) N: 241,922.437 LAT: 39.156976 N 4,334,226.6 N 241,957.8

E: 1,633,379.830 LONG: 80.792883 E: 517,909.9 E: 1,601,939.0

Landing Point Coordinates

NAD 27 S.P.C. (Ft.) NAD 27 GEO NAD 83 UTM 17N (M) NAD 83 S.P.C. (Ft.)

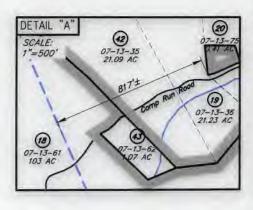
N: 241,399,472 LAT: 39.155344

E: 1,628,441.701 LONG: 80.810268 N 4,336,042.2 F. 516,408.2 N 241,434.7 04/1:25/2091

Bottom Hole Coordinates

NAD 27 S.P.C. (Ft.) NAD 27 GEO NAD 83 UTM 17N (M) NAD 83 S.P.C. (Ft.) N: 250,097.713 LAT: 39.179103 N 4,336,676.9 N 250,132.8

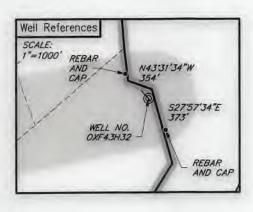
E: 1,625,455.931 LONG: 80.821247 E: 515,454.4 E: 1,594,015.0

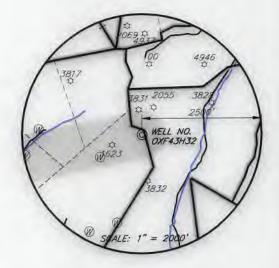


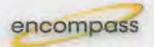
LEGEND

EXISTING OIL/GAS WELL (A) (O) (A) WATER FEATURE WELL HEAD TOP HOLE WELL LANDING POINT WELL BOTTOM HOLE REBAR FOUND DRILLED LATERAL LINE

PERMITTED LATERAL LINE LEASE BOUNDARY PROPERTY LINE STREAM 500' LATERAL COLLECTION BUFFER







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





EES-60635 FILE NO .: DRAWING NO .: OXF43_Well Plat 1" = 2000' SCALE: MINIMUM DEGREE ±3'

OF ACCURACY: PROVEN SOURCE OF ELEVATION:

GPS

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

DATE NOVEMBER 30 , 20 18 OPERATORS WELL NO.

API WELL NO.

STATE

17 COUNTY

255± AC

06884 PERMIT

WELL TYPE: ☐ OIL IN GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL IN (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☐ SHALLOW LOCATION.

1229' (As-Built Pad) WATERSHED: Middle Fork Hughes River DISTRICT: SOUTH WEST / COVE

COUNTY:

QUADRANGLE: OXFORD

DODDRIDGE ACREAGE: 104.48± AC

SURFACE OWNER: Cathy Jean Wetzel, ET AL LEASE NO .: 107429 ACREAGE: ROYALTY OWNER: Franklin Maxwell Heirs L. P.

DRILL CONVERT DRILL DEEPER STRACTURE OR STIMULATE PLUG OFF OLD FORMATION PROPOSED WORK: PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) □PLUG AND ABANDON □CLEAN OUT AND REPLUG TARGET FORMATION:

MARCELLUS ESTIMATED DEPTH: 6666'

WELL OPERATOR: EQT Production Company 115 Professional Pl. P.O. Box 280 ADDRESS: ADDRESS: _ Bridgeport, WV 26330

DESIGNATED AGENT:

Jason Ranson 115 Professional Pl. P.O. Box 280 Bridgeport, WV 26330

DA

PLAT-2018-11-29.DW

OXF

WW-6AI (5/13)

Operator's Well No. OXF43H32

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
	Granieri, Essaori, etc.	Grantee, Ecosee, etc.	Royalty	DOOK! age

See Attached

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

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

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

Office of Oil and Gas

6 2018

WV Department of Environmental Protection

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:	Erin Spine		
Its:	Regional Land Supervisor		

** Per West Virginia Code Section 22-6-8.

Operator's Well No.

OXF43H32

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 lessor)	Fisher Oil Co.		LB23/337
	Fisher Oil Co.	The Philadelphia Company of West Virginia	а	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	EQT Production Company		CB281/346
109481	Adele McDougal, et al. (currenty royalty owner)		**	
	Jackson Leeson, et al. (original lessor)	The Philadelphia Co. of West Virginia		LB21/76
	The Philadelphia Co. of West Virginia	Pittsburgh & West Virginia Gas Co.		DB87/90
	Pittsburgh & West Virginia Gas Co.	Equitable Gas Company		DB121/303
	Equitable Gas Company	Equitrans, Inc.		LB154/475
	Equitrans, Inc.	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
11/445	Mayles Family Toyat at al (a)			
<u>114445</u>	Marks Family Trust, et al (current royalty owner) W.T. Snider, et ux (original lessor)	The Philadelphia Co. of West Virginia	**	LB32/446
	The Philadelphia Co. of West Virginia	Pittsburgh & West Virginia Gas Co.		DB87/90
	Pittsburgh & West Virginia Gas Co.	Equitable Gas Company		DB121/303
	Equitable Gas Company	Equitrans, Inc.		LB154/475
	Equitrans, Inc.	Equitable Production-Eastern States, Inc.		LB192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB281/346
	Equitable Production Company	EQT Production Company		CB281/346 CB281/346
<u>1003646</u>		Hugh Connect	**	1.004/007
	Cyril Scott, et ux, et al (original lessor)	Hugh Spencer		LB91/637
	Hugh Spencer	J & J Enterprises		LB111/390
	J & J Enterprises	Eastern American Energy Corp.		LB211/137
	Eastern American Energy Corp.	Energy Corporation of America		LB240/498
	Energy Corporation of America	Antero Resources Corp.		LB272/339
	Antero Resources Corp.	EQT Production Co.		DB371/448
122692	Jonathan D. Casto, et al. (current royalty owner)		**	
	R. J. Gaston, et al (original lessor)	Carter Oil Co.		LB36/362
	Carter Oil Co.	Hope Natural Gas Co.		LB42/410
	Hope Natural Gas Co.	Pittsburgh & WV Gas Co.		LB53/82
	Pittsburgh & WV Gas Co.	Equitable Gas Co.		DB121/303
	Equitable Gas Co.	Equitrans, Inc.		LB154/475
	Equittrans, Inc.	Equitable Production-Eastern States, Inc.		LB192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB281/346
	Equitable Production Company	EQT Production Co.		CB281/346
987065	James Dohort Haught et al /ourrent rought, ours-1		**	
30,000	James Robert Haught, et al. (current royalty owner) James Robert Haught	EQT Production Company		LB317/617
		-aonipany		
<u>122689</u>	Melinda Chambers, et al. (current royalty owner)		**	.=
	M.L. Haught, et ux (original lessor)	Hope Natural Gas Company		LB35/10
	Hope Natural Gas Company	Equitable Gas Company		LB157/349
	Equitable Gas Company	Equitrans, Inc.		DB154/475
	Equitrans, Inc.	Equitable Production-Eastern States, Inc.		LB192/19
	END DE ENDE			
	Equitable Production-Eastern States, Inc. Equitable Production Company	Equitable Production Company EQT Production Co.		CB281/346 CB281/346



November 29, 2018

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

Re: OXF43 well pad, well numbers: OXF43H32, OXF43H34, OXF43H35, OXF43H36, OXF43H37
Southwest District, Doddridge County

Dear Mr. Brewer,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

Erin Spine

Regional Land Supervisor

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\frac{\text{NOTICE CERTIFICATION}}{\text{NOTICE CERTIFICATION}}$

Date of Notic	ce Certification: 12/03/2018		API No. 47	7_ 017	
			Operator's	Well No. OX	F43H32
			Well Pad N	Name: OXF4	3
Notice has I	been given:				
	ne provisions in West Virginia Code §	22-6A, the Operator has prov	ided the rec	uired parties	with the Notice Forms listed
	tract of land as follows:				
State:	w	UTM NAD 83	Easting:	517909.912	
County:	Doddridge	******	Northing:	4334226.637	
District:	South West/ Cove	Public Road Acc		Rt. 20	
Quadrangle:	Oxford	Generally used fa	ırm name:	Cathy Jean We	tzel, et al
Watershed:	Middle Fork Hughes River	<u> </u>			
it has provide information reduirements Virginia Code	the secretary; shall be verified and signed the owners of the surface described equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	ped in subdivisions (1), (2) a ction sixteen of this article; (ii rvey pursuant to subsection (f this article were waived in ender proof of and certify to the	nd (4), subsited that the recal, section to writing by	section (b), s quirement wa ten of this ar the surface of	ection ten of this article, the is deemed satisfied as a result ticle six-a; or (iii) the notice owner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		his Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURV	EY WAS CO	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIR NOTICE OF ENTRY FOR IT WAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER 1 (PLEASE ATTACH)		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PUI	BLIC NOTICE	•	Office	RECEIVED of Oil and G	s 🗵 RECEIVED
■ 6. NO	TICE OF APPLICATION		DE		
Dogwined A	440 album and 400 l		WV Enviro	Department nmental Prote	ection

Required Attachments:

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

Its:

Certification of Notice is hereby given:

THEREFORE, I ________, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: EQT Production Company
By: Erin Spine

Erin Spine

Regional Land Supervisor

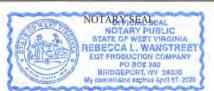
Telephone: 304-848-0035

Address: 2400 Ansys Drive, Suite 200

Canonsburg PA 15317

Facsimile: 304-848-0041

Email: espine@eqt.com



Subscribed and sworn before me this

day of November 2018

Milliam The Notary Public

My Commission Expires 7-7-6

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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WW-6A (9-13) API NO. 47-017 - OPERATOR WELL NO. OXFQA 12/2019
Well Pad Name: OXF43

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

Not	ice Time Requiren	nent: notice shall be prov	ided no later that	n the filing date of permit application.		
	e of Notice: 12/1/201	8 Date Permit Applica	tion Filed: 127/12	2018		
V	PERMIT FOR AN			ROVAL FOR THE IN IMPOUNDMENT OR PIT		
Deli	ivery method purs	uant to West Virginia C	ode § 22-6A-10((b)		
	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION		-
sedii the so oil a desco oper more well importante provents abstraction provents abstraction of the solution o	ment control plan re surface of the tract of and gas leasehold be bribed in the erosion fator or lessee, in the e coal seams; (4) The work, if the surface on the surface of the surface of the surface of the section (b) of this section for this article to e R. § 35-8-5.7.a re	quired by section seven of n which the well is or is pro- ing developed by the propo- and sediment control plan event the tract of land on ve- e owners of record of the se- tract is to be used for the p- lescribed in section nine of g or water supply source loo- mption by humans or dome vity is to take place. (c)(1) etion hold interests in the la- quired to be maintained pur- to the contrary, notice to a li- quires, in part, that the ope	this article, and the oposed to be local sed well work, if submitted pursual which the well properties trace trace or tracel lacement, construction article; (5) A cated within one that three ands, the applicant suant to section elien holder is not a rator shall also proposed within and the section of the applicant to section elien holder is not a rator shall also proposed with the section of the applicant to section elien holder is not a rator shall also proposed with the section of the applicant to section elien holder is not a rator shall also proposed with the section of the applicant to section elien holder is not a rator shall also proposed with the section of the applicant to section elien holder is not a rator shall also proposed with the applicant to section elien holder is not a rator shall also proposed with the applicant to section elien holder is not a rator shall also proposed with the applicant to section elien holder is not a rator shall also proposed with the applicant the applicant to section elien holder is not a rator shall also proposed with the applicant th	r signature confirmation, copies of the application newell plat to each of the following persons: (1) It ted; (2) The owners of record of the surface tract of the surface tract is to be used for roads or other land to subsection (c), section seven of this article; (c) possed to be drilled is located [sic] is known to be cets overlying the oil and gas leasehold being develocation, enlargement, alteration, repair, removal or my surface owner or water purveyor who is known thousand five hundred feet of the center of the well (6) The operator of any natural gas storage field we tenants in common or other co-owners of interest may serve the documents required upon the personal field one, chapter eleven-a of this code. (2) notice to a landowner, unless the lien holder is the ovide the Well Site Safety Plan ("WSSP") to the sas provided in section 15 of this rule.	The owners of or tracts overly and disturbance in the coal owe underlain by loped by the prabandonment in the application of the application which is within which the described in the ondescribed in Notwithstands alandowner.	record of ring the e as wher, one or roposed of any ant to s used to be in the ing any V. Va.
	Application Notice	☑ WSSP Notice ☑ E&	&S Plan Notice	☑ Well Plat Notice is hereby provided to:		
Nan	URFACE OWNER ne: See Attached Iress:	(s)		☐ COAL OWNER OR LESSEE Name: See Attached Address:	Office of	CEIVED f Oil and Gas
Nan				□ COAL OPERATOR	DEC	6 2018
	URFACE OWNER	(s) (Road and/or Other Di	sturbance)	Name: Address:	WV De Environme	partment of ntal Protection
Add	lress:			☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: See Attached		
Nan Add	Softe de la constante de la co			Address: OPERATOR OF ANY NATURAL GAS ST		LD
Nan	ne: See Attached	(s) (Impoundments or Pits		Name: Address:		
	7.75%			*Please attach additional forms if necessary		

Surface Owners:

CATHY JEAN WETZEL, ET AL 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

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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 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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DEC 6 2018

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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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 of this article: and (3) the well plat.

DEC

On Gas

plan required by section seven of this article; and (3) the well plat.

DEC

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) 6 2018 who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining page additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the / E permit decision and a list of persons qualified to test water.

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

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

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

Well Location Restrictions

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

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

Office of Oil and Gas
DEC 6 2018

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

WW-6A (8-13)

API NO. 47-017 - 04/12/2019
OPERATOR WELL NO. OXF43H32
Well Pad Name: OXF43

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

DEC 6 2018

WV Department of Environmental Protection

WW-6A (8-13) API NO. 47-017 - OPERATOR WELL NO. OXF Q 12/2019
Well Pad Name: OXF43

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 304-848-0035 Email: espine@eqt.com Address: 2400 Ansys Drive, Suite 200

Canonsburg PA 15317

Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEET VIRGINIA
REBECCA L. WANSTREET
EQT PRODUCTION COMPANY
PO BOX 280
BRIDGEPORT, WV 26330
My containsion opins April 07, 2020

Subscribed and sworn before me this day of November 2018.

Notary Public

My Commission Expires___

RECEIVED Office of Oil and Gas

DEC 6 2018

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

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

Notice Time Date of Notic	e: <u>04/26/2018</u>	D	ate Permit A	pplication Filed: 05/06/2018	
Delivery met	hod pursuant	to West Virginia C	Code § 22-6A-	16(b)	
☐ HAND		CERTIFIED MAI	L		
DELIVE		RETURN RECEI		TED	
eceipt reques rilling a hor f this subsec ubsection ma	sted or hand de izontal well: I tion as of the d ay be waived in	elivery, give the surferovided, That notice date the notice was per more than the surfere was	ace owner not e given pursus provided to the ace owner. The	ice of its intent to enter upon that to subsection (a), section to surface owner: <i>Provided, ho</i> the notice, if required, shall income.	n, an operator shall, by certified mail return the surface owner's land for the purpose of ten of this article satisfies the requirements wever, That the notice requirements of this clude the name, address, telephone number tor's authorized representative.
		ed to the SURFAC	CE OWNER	• •	
Name: See Atta				Name: See Attached	
Address:	. <u></u>		_	Address:	
Pursuant to W he surface ov State:	wner's land for			al well on the tract of land as f	517909.912
Pursuant to Whe surface over tate: County: District:	Vest Virginia (wner's land for	the purpose of drilli		al well on the tract of land as f	follows:
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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.

Surface Owners:

CATHY JEAN WETZEL, ET AL 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

> RECEIVED Office of Oil and Gas

DEC 6 2018

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 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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DEC 6 2018

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

Date of Notic	e: 12/93/2018 Date Permit	Application Filed: 12/96	date of permit application. 96/2018
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(c)	
■ CERTII	FIED MAIL [EN RECEIPT REQUESTED	☐ HAND DELIVERY	
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice. Notice is here	requested or hand delivery, give the superation. The notice required by this provided by subsection (b), section tenorizontal well; and (3) A proposed such as the surface affected by oil and gas opera	urface owner whose land is subsection shall includ in of this article to a surfaurface use and compensations to the extent the daten to the surface owner at NER(s)	the permit application, an operator shall, by certified maid will be used for the drilling of a horizontal well notice of the drilling of a horizontal well notice of the dee: (1) A copy of this code section; (2) The information face owner whose land will be used in conjunction with the sation agreement containing an offer of compensation for amages are compensable under article six-b of this chapter at the address listed in the records of the sheriff at the time.
Name: See Atta		Name: S	
Name: See Atta Address:	ched		
Name: See Atta Address: Notice is here Pursuant to Woperation on State: County: District: Quadrangle:	eby given:	Name: S Address: ce is hereby given that the se of drilling a horizontal UTM NAD 83	the undersigned well operator has developed a planned al well on the tract of land as follows: Easting: 517909.912 Northing: 4334226.637
Name: See Atta Address: Notice is her. Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect	beby given: Vest Virginia Code § 22-6A-16(c), notion the surface owner's land for the purpose www boddridge South West/ Cove Oxford Middle Fork Hughes River Shall Include: Vest Virginia Code § 22-6A-16(c), this ad by W. Va. Code § 22-6A-10(b) to all; and (3) A proposed surface use and ed by oil and gas operations to the exelated to horizontal drilling may be of located at 601 57th Street, SE, Cli	Name: S Address: Address: ce is hereby given that these of drilling a horizontal UTM NAD 83 Public Road A Generally uses a notice shall include: (1), a surface owner whose to compensation agreement the damages are consistent the damages are consistent the Secreta	the undersigned well operator has developed a planned al well on the tract of land as follows: Easting: 517909.912 Northing: 4334226.637 Access: Rt. 20
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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. 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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DEC 6 2018



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 Central Office O&G Coordinator

Dary K. Clayton

Cc:

Nick Bumgardner

EQT Production Company

CH, OM, D-4

File

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	Ingredient	CAS Number
Water		
Sand	Hydrotreated light petroleum distillate Tributyl tetradecyl phosphonium	14808-60-7
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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Office of Oil and Gas

DEC 6 2018

PROJECT INFORMATION

PROJECT MARK BATZ CKE 43 ASSULT

SURFACE OWNERS:

APRILITATION DISTANCE

METZEL CATHY JEAN ST AL MENDANIA D.O. 207 PG. NE

CREATHOUSE CHARLES A SCYCLING APR 07-1205 D.D. 102 PG 340

APR 01-16-2 0.0 200 PG 201 COPELAND NATHEW H APMOZ-10 I D B 357 PG 6

OIL AND GAS ROYALTY OWNER.

LOCATION COORDINATES

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ONF-ALCENTER OF WILLIAMS

ARTICLE SECONDS LONGINGOUS AND WICKNESS OF METERS.

WORTHING CLINICAL EXERGE BY METERS.

SITE DISTURBANCE COMPUTATIONS

GENERAL DESCRIPTION

THE CON 41 PAD AND AST PADS ARE LEMB CONSTRUCTED TO AID IN THE DOVELOPMENT OF PROVIDENCE MARKELESS SHALE GAS WELLS

WVDEP OOG ACCEPTED AS-BUILT



1 / 29 / 2019

DEVIXOR

MISS Utility of West Virginia 1-800-245-4848

OXF43 AS-BUILT SITE PLAN EQT PRODUCTION COMPANY

PERMITTED WELLS: API# 47-017-06739, 47-017-06740, 47-017-06741, 47-017-06742, 47-017-06743, 47-017-06744, 47-017-06745, 47-017-06746, 47-017-06747, 47-017-06748 AND 47-017-06749

PROPOSED WELL NUMBERS: OXF43H28, OXF43H29, OXFH33, OXF43H34, OXF43H35, OXF43H36, OXF43H37, AND OXF43H38

> SITUATE ON WATERS OF MIDDLE FORK OF THE SOUTH FORK OF HUGHES RIVER IN SOUTHWEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

LOCATION MAP



LIST OF DRAWINGS

1226-2 81099.1 2-INDEX SHEET

3 - 00 8-41 AC 0155 R044

4-COF 41 MCC151 ROAD FLOOR AT ACCESS ROAD

n-LOW-IS ALCED STORE

5 CHT-45 ACCESS NOVE 9 - ONF-15 ACCESS ROME, WELL PHIC MAD ACCESS ROAD AND PAID W AND ACCESS ROAD.

II-CHEATHART AND WELL HELD

12 - SAM ROAD PROFILE

12 NAME FOR ESCHILL

15 - MAIN ROAD PROFILE AND END ACCOUNT MORE INCOME.

2.FOR GLORIS BOND PROFILE UND WELL BE DONNER GLORIS PROFILE

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Weller, Carry Joan &TAL	7-16-7	8.02	7.8
BECKE TA	f-12g	4140	78.6
Espant Mater H	f.ret	433	27

Deposition	LOB (Acres)	Visedinf Area (Acres
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Es Access Rose Sila G-00 to 15×40	516	42
Emiling the Road Robustion (MD to 4460, 18-8460 54427	332	- 21
Prof. Parl	2.44	31
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PROPERTY LINES
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EX.

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ORBITAL CROSSINGS

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AS BURLY F CONSTRUES

PROPOSEN WELL LOCATIONS

ABJACENT WELL LOCATIONS

ABJACENT WELL LOCATIONS

ADJACENT VEIL LOCATS
MATCHLINE
EX FENCELINE
EX STRUCTURE
EX STRUCTURE
EX PRETLINE MASSIES
EX OVERHEAR UTELITY
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AS-BUILT SITE PLAN The property and pathwill to the property of the following the property of the pathwill the path

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