

06/07/2019



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

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

Friday, June 7, 2019
WELL WORK PERMIT
Horizontal 6A / Re-Work

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

Re: Permit approval for 516238
47-017-06746-00-00

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

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

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


James A. Martin
Chief

Operator's Well Number: 516238
Farm Name: WETZEL, CATHY
U.S. WELL NUMBER: 47-017-06746-00-00
Horizontal 6A Re-Work
Date Issued: 6/7/2019

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

1. 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.
2. 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.
3. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
4. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
5. 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.
6. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: OXF43
County: Doddridge

January 24, 2019

RECEIVED
Office of Oil and Gas
MAR 11 2019
WV Department of
Environmental Protection

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 516238 (OXF43H30), 516240 (OXF43H31), OXF43H34 and OXF43H35.

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

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

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

1. Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

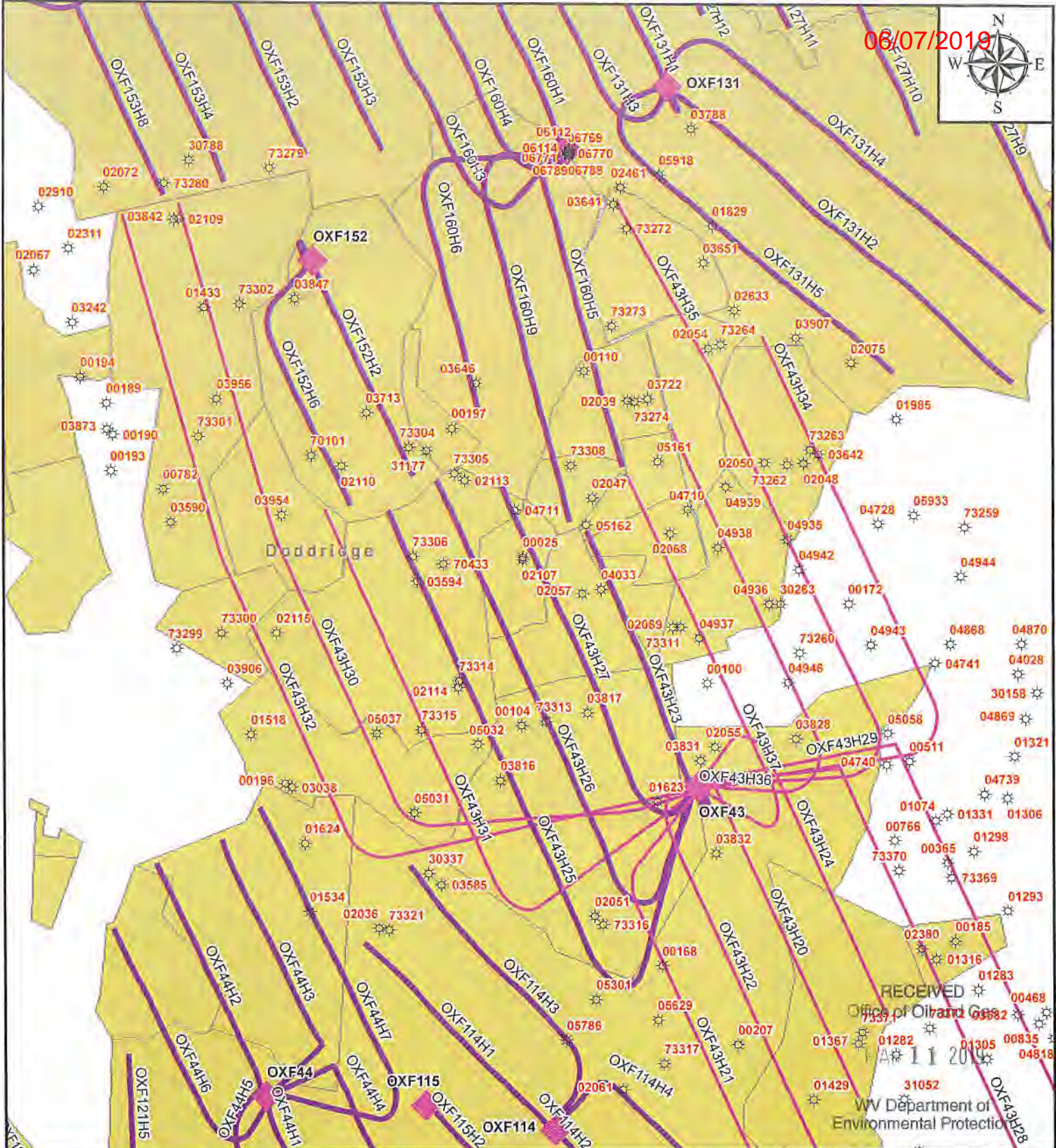
1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead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

2. Reporting

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

RECEIVED
Office of Oil and Gas
MAR 11 2019
WV Department of
Environmental Protection
Page 2 of 2

06/07/2019



EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

OXF 43 - North

Vertical Offsets and Foreign Laterals within 1500'

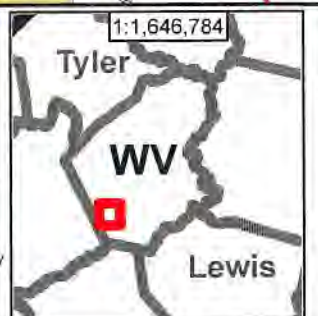
Created By: Keelin Wailman Printed By: madjarip on 1/24/2019
Path: \\yndofcs2\gisdept\GIS_Dept\men\GIS_Users\Madjarip\ACR\WV\OXF43_North_Offset_Well_Map.mxd

- Legend**
- Offset Well
 - Pad
 - Genesee Spud
 - Genesee Planned
 - Marcellus Spud
 - Marcellus Planned
 - Utica Spud
 - Utica Planned
 - EQT Lease
 - County



Disclaimer:

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.



Well ID	Abandoned Date	Completion Date	County	Current Operator	Elevation	Datum	Final Status	Latitude	Longitude	Well Name	Permit Date	Projected Formation	Projected TD	Spud Date	State	Total Depth	Permit
47017014080000		10/1/1966	DODDRIDGE	JAY-BEE OIL & GAS INC	1241	GR	10&1G	39.1371	-80.7753	1 C A VANHORN	8/17/1966			9/1/1966	WEST VIRGINIA	2300	01408
47017001790000	9/9/1947	8/1/1918	DODDRIDGE	HOPE NATURAL GAS	973	GR	D&A-OG	39.1498	-80.7731	5283 DECO VAN HORN	6/17/1918			7/2/1918	WEST VIRGINIA	1785	00179
47017048680000		10/14/2004	DODDRIDGE	SPENCER ENTERPRISES	1214	GR	GAS	39.1625	-80.7804	2 HICKMAN	8/31/2004	BIG INJUN	2300	9/9/2004	WEST VIRGINIA	2230	04868
47017301580000	1/1/1936		DODDRIDGE	HOPE NATURAL GAS	1177	GR	ABD-GW	39.1606	-80.7761	5282 H C & EDWARD CHAPMAN					WEST VIRGINIA	1817	30158
47017012980000		9/1/1965	DODDRIDGE	MEADOWS 5 LJR PRODUCTION COMPANY	1282	GR	10&1G	39.1545	-80.7793	2 S L CHAPMAN	7/18/1965			8/2/1965	WEST VIRGINIA	2232	01298
47017019660000			DODDRIDGE	CONSOL GAS COMPANY	940	GR	GAS	39.1372	-80.7740	5295 J ADAMS					WEST VIRGINIA	2520	01966
47017733700000			DODDRIDGE	PHILADELPHIA OIL		GR	UNKNWN	39.1537	-80.7830	4245 JESSE WILLIAMS					WEST VIRGINIA	0	73370
47017015380001		11/7/1972	DODDRIDGE	MEADOWS 5 LJR PRODUCTION COMPANY	1035	GR	OIL-WO	39.1393	-80.7822	1 JOSHUA ADAMS	10/25/1972			11/4/1972	WEST VIRGINIA	2010	01538
47017732600000			DODDRIDGE	HOPE NATURAL GAS		GR	UNKNWN	39.1622	-80.7878	7055 S W STOUT ET AL					WEST VIRGINIA	0	73260
47017036420000		6/27/1988	DODDRIDGE	TERM ENERGY	1238	KB	GAS	39.1698	-80.7869	1(88-3) PRUNTY MVRTL E M	6/2/1988	ALEXANDER	5320	6/12/1988	WEST VIRGINIA	5432	03642
47017013290000		10/1/1965	DODDRIDGE	MEADOWS 5 LJR PRODUCTION COMPANY	1170	GR	10&1G	39.1408	-80.7821	7 THURMAN SPURGEON	8/17/1965			9/1/1965	WEST VIRGINIA	2170	01329
47017001720000		12/1/1946	DODDRIDGE	DIVERSIFIED RESOURCES INCORPORATED	955	GR	GAS	39.1641	-80.7854	2 JESSE WILLIAMS	10/17/1946			11/1/1946	WEST VIRGINIA	1344	00172
47017020550000	6/27/1988	11/6/1918	DODDRIDGE	EQUITABLE GAS COMPANY	1097	GR	ABD-GW	39.1585	-80.7920	4672 JACKSON LEESDN	9/25/1918			10/10/1918	WEST VIRGINIA	1639	02055
47017012820000		8/1/1965	DODDRIDGE	MEADOWS 5 LJR PRODUCTION COMPANY	1061	GR	10&1G	39.1466	-80.7832	4 THURMAN SPURGEON	6/17/1965			7/2/1965	WEST VIRGINIA	2032	01282
47017026330000		6/25/1980	DODDRIDGE	LUCAS WELL SERVICE INCORPORATED	1320	GR	GAS	39.1754	-80.7910	2-B MAXWELL W BRENT	5/20/1980	GORDON /SD/	2700	5/30/1980	WEST VIRGINIA	2795	02633
47017036510000		7/28/1988	DODDRIDGE	TERM ENERGY	1195	KB	GAS	39.1772	-80.7925	2 FARR CAROLYN	7/6/1988	ALEXANDER	5250	7/16/1988	WEST VIRGINIA	5247	03651
47017013070000		9/1/1965	DODDRIDGE	MEADOWS 5 LJR PRODUCTION COMPANY	917	GR	OIL	39.1429	-80.7821	5 THURMAN SPURGEON	9/1/1965			9/1/1965	WEST VIRGINIA	1920	01307
47017047110000		1/20/2003	DODDRIDGE	KEY OIL COMPANY	1215	GR	GAS	39.1677	-80.8019	1 RYMER	12/22/2002	ALEXANDER	5600	1/2/2003	WEST VIRGINIA	5341	04711
47017001100000		10/21/1940	DODDRIDGE	EMPIRE OIL & GAS INCORPORATED	1168	GR	GAS	39.1731	-80.7984	1 LEESON CHARLES	9/6/1940	GORDON		9/21/1940	WEST VIRGINIA	2672	00110
47017021070000		7/14/1930	DODDRIDGE	EQT PRODUCTION COMPANY	1012	GR	GAS	39.1658	-80.8015	4983 ROSA B RYMER	5/19/1930			6/3/1930	WEST VIRGINIA	2502	02107
47017051620000		6/28/2006	DODDRIDGE	KEY OIL COMPANY	1201	GR	GAS	39.1671	-80.7984	7 ADAMS A	2/21/2006	GORDON	3000	6/12/2006	WEST VIRGINIA	2755	05162
47017040330000		9/15/1993	DODDRIDGE	TERM ENERGY	970	GR	GAS	39.1646	-80.7976	1 MATHENY BARRY L ETALS	8/16/1993	ALEXANDER	5200	8/26/1993	WEST VIRGINIA	5000	04033
47017030380000		11/30/1981	DODDRIDGE	ENERGY CORPORATION OF AMERICA INC	855	KB	GAS	39.1571	-80.8130	J-466 GRIMM DONALD	11/7/1981	ALEXANDER	5400	11/17/1981	WEST VIRGINIA	5047	03038
47017016240000		8/7/1971	DODDRIDGE	R & R OIL & GAS LLC	967	GR	2GAS	39.1549	-80.8124	3 /1/ SMIDER W T	7/2/1971	UNKNOWN		7/12/1971	WEST VIRGINIA	2374	01624
47017733020000			DODDRIDGE	HOPE NATURAL GAS		GR	UNKNWN	39.1757	-80.8155	5812 W B MAXWELL HRS					WEST VIRGINIA	0	73302
47017040280000		8/15/1993	DODDRIDGE	KEY OIL COMPANY	1295	GR	GAS	39.1613	-80.7770	1 SUMMERS PAULINE ETAL	7/31/1993	ALEXANDER	5500	8/10/1993	WEST VIRGINIA	5470	04028
47017012930000		9/1/1965	DODDRIDGE	MEADOWS 5 LJR PRODUCTION COMPANY	1117	GR	10&1G	39.1522	-80.7776	1 S L CHAPMAN	7/18/1965			8/2/1965	WEST VIRGINIA	2080	01293
47017037220000		6/24/1989	DODDRIDGE	TERM ENERGY	1031	KB	GAS	39.1720	-80.7953	1 SHIVE GLENN	6/3/1989	ALEXANDER	5300	6/13/1989	WEST VIRGINIA	5084	03722
47017020500000	5/24/2006	6/18/1918	DODDRIDGE	EQT PRODUCTION COMPANY	1066	GR	ABD-GW	39.1695	-80.7895	4653 GASTON MARY V	3/23/1918	BIG INJUN		4/23/1918	WEST VIRGINIA	1823	02050
47017001720001		12/1/1946	DODDRIDGE	DIVERSIFIED RESOURCES INCORPORATED	955	GR	GAS	39.1641	-80.7854	2 JESSE WILLIAMS	10/17/1946			11/1/1946	WEST VIRGINIA	2317	00172
47017018850009		5/1/1978	DODDRIDGE	EQT PRODUCTION COMPANY	863	GR	OIL	39.1418	-80.7882	6232 F L LODGE	3/17/1978			4/1/1978	WEST VIRGINIA	1898	01885
47017047410000		10/4/2003	DODDRIDGE	KEY OIL COMPANY	1202	GR	GAS	39.1617	-80.7811	1 HICKMAN	6/17/2003	ALEXANDER	5600	9/29/2003	WEST VIRGINIA	5347	04741
47017019850000		7/28/1921	DODDRIDGE	CONSOL GAS COMPANY	1210	GR	GAS	39.1712	-80.7830	7057 S STOUT	5/31/1921			6/15/1921	WEST VIRGINIA	2053	01985
47017047100000		1/27/2003	DODDRIDGE	KEY OIL COMPANY	1206	GR	GAS	39.1677	-80.7933	1 ADAMS	12/22/2002	ALEXANDER	5600	1/13/2003	WEST VIRGINIA	5343	04710
47017005110000		11/1/1961	DODDRIDGE	MID PINE DEVELOPMENT	1009	GR	10&1G	39.1580	-80.7824	1 H C CHAPMAN HEIRS	9/17/1961			10/2/1961	WEST VIRGINIA	1950	00511
47017733060000			DODDRIDGE	UNKNOWN		GR	UNKNWN	39.1659	-80.8069	1 SAM GASTON					WEST VIRGINIA	0	73306
47017067710000		5/1/2017	DODDRIDGE	EQT PRODUCTION COMPANY	1220	GR	GAS	39.1814	-80.7992	VV 513702 HART RONALD & JEFFERY	6/15/2016	MARCELLUS /SH/	11191	2/19/2017	WEST VIRGINIA	11191	06771
47017038160000		9/20/1990	DODDRIDGE	ENERGY CORPORATION OF AMERICA INC	1075	KB	GAS	39.1573	-80.8027	1 MERTY/MAXWELL F	8/22/1990	ALEXANDER	5225	9/1/1990	WEST VIRGINIA	5235	03816
47017024610000		9/6/1979	DODDRIDGE	MURVIN & MEIER OIL COMPANY	1230	GR	GAS	39.1802	-80.7966	11 MAXWELL BRENT W	8/6/1979	BEREA	2600	8/16/1979	WEST VIRGINIA	2636	02461
47017067700000		3/2/2017	DODDRIDGE	EQT PRODUCTION COMPANY	1243	KB	GAS	39.1815	-80.7992	VV 514101 HART RONALD & JEFFERY	6/15/2016	MARCELLUS /SH/	12080	10/28/2016	WEST VIRGINIA	12065	06770
47017053010000		2/2/2007	DODDRIDGE	EQT PRODUCTION COMPANY	978	GR	GAS	39.1488	-80.7980	VV 510808 LEESON J	10/16/2006	ALEXANDER	5300	11/15/2006	WEST VIRGINIA	5402	05301
47017067890000			DODDRIDGE	EQT PRODUCTION COMPANY	1220	GR	PERMIT	39.1814	-80.7992	VV 514102 OXF160					WEST VIRGINIA	0	06789
47017733050000			DODDRIDGE	HOPE NATURAL GAS		GR	UNKNWN	39.1691	-80.8049	7034 SAM GASTON	3/20/2017	MARCELLUS /SH/	11134		WEST VIRGINIA	0	73305
47017733010000			DODDRIDGE	HOPE NATURAL GAS		GR	UNKNWN	39.1706	-80.8176	6491 W B MAXWELL HRS					WEST VIRGINIA	0	73301
47017021150000	6/26/2006	1/1/1981	DODDRIDGE	EQUITABLE PRODUCTION COMPANY	1063	GR	ABD-GW	39.1630	-80.8137	VV 606112 GASTON	10/29/1980	BIG INJUN		11/29/1980	WEST VIRGINIA	1820	02115
47017038420000		8/9/1990	DODDRIDGE	TERM ENERGY	1140	KB	GAS	39.1789	-80.8187	2 CASSIDY JOAN	7/13/1990	ALEXANDER	5350	7/23/1990	WEST VIRGINIA	5259	03842
47017039540001		9/30/2002	DODDRIDGE	TERM ENERGY	905	KB	GAS-WO	39.1676	-80.8135	5 GASTON SAMUEL D	8/6/2002	WEIR /SD/	1940	9/23/2002	WEST VIRGINIA	4960	03954
47017733470000			DODDRIDGE	UNKNOWN		GR	UNKNWN	39.1355	-80.7671	MELVILLE CONLEY					WEST VIRGINIA	0	73347
47017044000000		11/19/1997	DODDRIDGE	KEY OIL COMPANY	920	GR	GAS	39.1507	-80.7731	1 OECO VANHORN HRS ETAL	10/30/1997	ALEXANDER	5600	11/9/1997	WEST VIRGINIA	5194	04400
47017013050000		3/24/1966	DODDRIDGE	PENNZOIL COMPANY	893	GR	D&A-O	39.1464	-80.7787	6 SPURGEON THURMAN	8/17/1965	PRICE		9/1/1965	WEST VIRGINIA	1900	01305
47017013310000			DODDRIDGE	PENNZOIL COMPANY		GR	PSEUDO	39.1559	-80.7806	2 THOMAS HICKMAN					WEST VIRGINIA	0	01331
47017013040000	11/18/1965	10/1/1965	DODDRIDGE	PENNZOIL COMPANY	994	GR	D&A	39.1537	-80.7746	3 S L CHAPMAN	8/17/1965			9/1/1965	WEST VIRGINIA	1964	01304
47017733710000			DODDRIDGE	HOPE NATURAL GAS		GR	UNKNWN	39.1475	-80.7848	1 F L LODGE					WEST VIRGINIA	0	73371
47017020540000	6/12/2006	6/1/1996	DODDRIDGE	UNKNOWN	1247	GR	ABD-GW	39.1739	-80.7923	4666 GASTON	3/24/1996	WEIR /SD/		4/24/1996	WEST VIRGINIA	2795	02054
4701705731052000	3/14/1956	1/8/1919	DODDRIDGE	HOPE NATURAL GAS	875	GR	ABD-GW	39.1449	-80.7828	5434 THURMAN SPURGEON	12/8/1918			12/23/1918	WEST VIRGINIA	1757	31052
47017733720000			DODDRIDGE	UNKNOWN		GR	UNKNWN	39.1477	-80.7815	C-142 THOMAS SPURGEON					WEST VIRGINIA	0	73372
47017002070001		9/1/1962	DODDRIDGE	DIVERSIFIED RESOURCES INCORPORATED	883	GR	GAS	39.1471	-80.7910	7 JESSIE WILLIAMS 3	7/18/1962			8/2/1962	WEST VIRGINIA	1736	02027
47017049460000		11/29/2005	DODDRIDGE	CONSOL GAS COMPANY	1123	GR	GAS	39.1610	-80.7884	14082 MORRIS 1 L	2/8/2005	GORDON	2695	11/11/2005	WEST VIRGINIA	2720	04946
47017051610000		6/38/2006	DODDRIDGE	KEY OIL COMPANY	1100	GR	GAS	39.1696	-80.7948	6 ADAMS A	2/21/2006	GORDON	3000	6/15/2006	WEST VIRGINIA	2631	05161
47017023800000		4/11/1919	DODDRIDGE	EQT PRODUCTION COMPANY	1068	GR	GAS	39.1507	-80.7819	4703 W J HICKMAN	3/27/1919			4/11/1919	WEST VIRGINIA	2093	02380
47017038280000		9/28/1990	DODDRIDGE	ENERGY CORPORATION OF AMERICA INC	930	KB	GAS	39.1588									

47017047390000	10/22/2003	DDDRIDGE	KEY OIL COMPANY	1144	GR	GAS	39.1567	-80.7787	3 HICKMAN	6/17/2003	ALEXANDER	5600	10/9/2003	WEST VIRGINIA	5313	04739
47017004310000	11/1/1960	DDDRIDGE	ASH & CHAPMAN	937	GR	1O&1G	39.1449	-80.7750	1 DORSEY E HUFF	9/17/1960			10/2/1960	WEST VIRGINIA	1904	00431
47017049430000	12/10/2005	DDDRIDGE	CONSOL GAS COMPANY	984	GR	GAS	39.1625	-80.7843	14084 MORRIS I L	2/8/2005	GORDON	2555	11/16/2005	WEST VIRGINIA	2512	04943
47017007660000	8/1/1962	DDDRIDGE	BEECHUCK OIL INCORPORATED	935	GR	1O&1G	39.1549	-80.7832	2 JESSIE WILLIAMS ET VIR	6/17/1962			7/2/1962	WEST VIRGINIA	1847	00766
47017049420000	10/14/2005	DDDRIDGE	CONSOL GAS COMPANY	1171	GR	GAS	39.1654	-80.7878	14083 MORRIS I L	2/8/2005	GORDON	2580	9/29/2005	WEST VIRGINIA	2762	04942
47017010740000	2/1/1964	DDDRIDGE	BEECHUCK OIL INCORPORATED	949	GR	GAS	39.1557	-80.7811	3 JESSIE WILLIAMS ET AL	12/18/1963			1/2/1964	WEST VIRGINIA	2459	01074
47017302630000	10/24/1918	DDDRIDGE	BEREN I H	1159	GR	ABD-GW	39.1641	-80.7888	4665 ALEXANDER ADAMS	9/1/1918			9/16/1918	WEST VIRGINIA	2054	30263
47017049370000	5/26/2006	DDDRIDGE	KEY OIL COMPANY	1224	GR	GAS	39.1628	-80.7928	3 ADAMS A	2/8/2005	GORDON	3000	5/17/2005	WEST VIRGINIA	2774	04937
47017056290000	9/4/2008	DDDRIDGE	EQT PRODUCTION COMPANY	866	KB	GAS	39.1480	-80.7950	WV 510840 LEESON J	4/15/2008	ALEXANDER	6400	6/10/2008	WEST VIRGINIA	6332	05629
47017001000001	7/19/1938	DDDRIDGE	CONSOL GAS COMPANY	1163	GR	GAS	39.1610	-80.7924	7056 S W STOUT	6/4/1939			6/19/1939	WEST VIRGINIA	2045	00100
47017014520000	6/1/1967	DDDRIDGE	EQT PRODUCTION COMPANY	1081	GR	OIL	39.1423	-80.7889	6214 F L LODGE	4/17/1967			5/2/1967	WEST VIRGINIA	2027	01452
47017733040000		DDDRIDGE	HOPE NATURAL GAS		GR	UNKNWN	39.1702	-80.8071	7032 SAMUEL HILEMAN					WEST VIRGINIA	0	73304
47017020390001	10/17/1926	DDDRIDGE	EQUITABLE PRODUCTION COMPANY	1037	GR	ABD-GW	39.1719	-80.7963	4532 GASTON	8/1/1926	GORDON		9/1/1926	WEST VIRGINIA	2453	02039
47017061130000	4/25/2013	DDDRIDGE	EQT PRODUCTION COMPANY	1220	GR	GAS	39.1816	-80.7992	WV 513173 GASTON S E	8/10/2012	MARCELLUS /SH/		8/30/2012	WEST VIRGINIA	13269	06113
47017037130001	11/12/2004	DDDRIDGE	TERM ENERGY	977	KB	GAS-WO	39.1715	-80.8092	1 SCHWARTZMAN	9/24/2004	BIG INJUN		10/6/2004	WEST VIRGINIA	0585	03713
47017036460000	7/6/1988	DDDRIDGE	TERM ENERGY	1000	KB	GAS	39.1726	-80.8038	2 GASTON	6/13/1988	ALEXANDER	5065	6/23/1988	WEST VIRGINIA	5068	03646
47017731400000		DDDRIDGE	HOPE NATURAL GAS		GR	UNKNWN	39.1612	-80.8047	7035 SAM GASTON					WEST VIRGINIA	0	7314
47017732990000		DDDRIDGE	UNKNOWN		GR	UNKNWN	39.1625	-80.8187	1 J E TRAINER					WEST VIRGINIA	0	73299
47017038470000	10/2/1990	DDDRIDGE	TERM ENERGY	1181	KB	GAS	39.1759	-80.8128	2 SCHWARTZMAN	9/9/1990	ALEXANDER	5400	9/19/1990	WEST VIRGINIA	5271	03847
47017039560000	8/1/1992	DDDRIDGE	TERM ENERGY	945	KB	GAS	39.1721	-80.8166	CASSIDY3 HAUGHT MABEL G ETAL	6/14/1992	ALEXANDER	5300	6/24/1992	WEST VIRGINIA	5017	03956
47017001960001	8/8/1950	DDDRIDGE	FARR ENTERPRISES	831	GR	D&A-G	39.1572	-80.8134	4593 M S GASTON 1	6/6/1950			6/21/1950	WEST VIRGINIA	2288	00196
47017048180000	3/1/2005	DDDRIDGE	KEY OIL COMPANY	959	GR	GAS	39.1472	-80.7753	2 CHAPMAN H C	4/19/2004	GORDON	3000	2/16/2005	WEST VIRGINIA	2681	04818
47017307290000	5/17/1919	DDDRIDGE	HOPE NATURAL GAS	979	GR	ABD-GW	39.1461	-80.7748	5468 H C CHAPMAN	3/24/1919			4/8/1919	WEST VIRGINIA	2526	30729
47017048700000	8/28/2005	DDDRIDGE	KEY OIL COMPANY	1271	GR	GAS	39.1625	-80.7768	3 SUMMERS	9/8/2004	GORDON	3000	8/28/2005	WEST VIRGINIA	2881	04870
47017006210000	5/1/1962	DDDRIDGE	WETZEL OLIN B	1178	GR	D&A-G	39.1426	-80.7681	1 J H SPURGEON ET AL	3/17/1962			4/1/1962	WEST VIRGINIA	2270	00621
47017006090000	9/1/1961	DDDRIDGE	KELLY A A	1042	GR	D&A	39.1490	-80.7733	1 ROY RUPERT HRS	7/18/1961			8/2/1961	WEST VIRGINIA	1955	00603
47017008130000	10/1/1961	DDDRIDGE	PENNZOIL COMPANY	944	GR	ABD-GW	39.1363	-80.7720	3 ANDREW HURST	8/17/1961			9/1/1961	WEST VIRGINIA	2094	00613
47017014700000	7/11/1968	DDDRIDGE	JAY-BEE OIL & GAS INC	1234	GR	GAS	39.1344	-80.7739	2 C A VANHORN	5/27/1968			6/11/1968	WEST VIRGINIA	2879	01470
47017012830000	8/1/1965	DDDRIDGE	MEADOWS S L JR PRODUCTION COMPANY	1041	GR	1O&1G	39.1491	-80.7791	3 THURMAN SPURGEON	6/17/1965			7/2/1965	WEST VIRGINIA	2018	01283
47017059180000	1/16/2012	DDDRIDGE	EQT PRODUCTION COMPANY	1252	GR	GAS	39.1806	-80.7947	WV 512444 EAE/MAXWELL	12/29/2009	MARCELLUS /SH/		4/20/2010	WEST VIRGINIA	12244	05918
47017732740000		DDDRIDGE	EQUITABLE RESOURCES EXPLORATION INC		GR	UNKNWN	39.1719	-80.7960	2632 C GASTON					WEST VIRGINIA	0	73274
47017015600000	10/1/1969	DDDRIDGE	EQT PRODUCTION COMPANY	1011	GR	1O&1G	39.1403	-80.7888	6217 F L LODGE	8/17/1969			9/1/1969	WEST VIRGINIA	1943	05600
47017020690000	3/1/1981	DDDRIDGE	EQT PRODUCTION COMPANY	1188	GR	GAS	39.1632	-80.7941	4749 GASTON C	10/24/1980	KEENER /SD/		11/24/1980	WEST VIRGINIA	5053	02069
47017047280000	5/4/2004	DDDRIDGE	CONSOL GAS COMPANY	1135	GR	GAS	39.1671	-80.7839	6294 MORRIS KE L	4/29/2003	WEIR /SD/	2365	4/24/2004	WEST VIRGINIA	2720	04728
47017020750000		DDDRIDGE	UNKNOWN		GR	PSEUDO	39.1734	-80.7852	4787 MAXWELL					WEST VIRGINIA	0	02075
47017001000000	2/16/1930	DDDRIDGE	CONSOL GAS COMPANY	1163	GR	UNKNWN	39.1610	-80.7924	7056 S W STOUT	1/2/1930			1/17/1930	WEST VIRGINIA	0	00100
47017038310000	9/18/1990	DDDRIDGE	ENERGY CORPORATION OF AMERICA INC	1260	KB	GAS	39.1580	-80.7928	4 MERTY WILLIAMS	8/28/1990	ALEXANDER	5400	8/28/1990	WEST VIRGINIA	5422	03831
47017013170001	11/1/1965	DDDRIDGE	EQT PRODUCTION COMPANY	1057	GR	OIL	39.1416	-80.7845	4709 F L LODGE	9/9/1965			9/24/1965	WEST VIRGINIA	2001	01317
47017050580000	10/1/2005	DDDRIDGE	SPENCER ENTERPRISES	1206	GR	GAS	39.1590	-80.7835	3 HICKMAN	8/22/2005	BIG INJUN	2300	8/22/2005	WEST VIRGINIA	2285	05058
47017020440000	12/6/1917	DDDRIDGE	EQUITABLE GAS COMPANY	1162	GR	ABD-GW	39.1337	-80.7869	4599 JENNY KEMPER 1	10/17/1917			11/1/1917	WEST VIRGINIA	2700	02044
47017050370000	7/5/2005	DDDRIDGE	SPENCER ENTERPRISES	940	GR	GAS	39.1591	-80.8088	3-A GRIMM	6/14/2005	BIG INJUN	2300	6/14/2005	WEST VIRGINIA	1950	05037
47017001040000	9/1/1939	DDDRIDGE	EQT PRODUCTION COMPANY	1095	GR	GAS	39.1594	-80.8016	4658 W B MAXWELL 2	7/18/1939			8/2/1939	WEST VIRGINIA	2492	00104
47017067880000		DDDRIDGE	EQT PRODUCTION COMPANY	1220	GR	PERMIT	39.1814	-80.7992	WV 513172 OXF160	3/20/2017	MARCELLUS /SH/	11269		WEST VIRGINIA	0	06788
47017311770000	5/17/1919	DDDRIDGE	EQUITABLE GAS COMPANY	1064	GR	ABD-GW	39.1700	-80.8063	6107 E M GASTON	3/23/1919			4/7/1919	WEST VIRGINIA	1997	31177
47017039560001	11/21/2004	DDDRIDGE	TERM ENERGY	945	KB	GAS-WO	39.1721	-80.8166	3 CASSIDY	9/24/2004	BIG INJUN		10/6/2004	WEST VIRGINIA	5017	03956
47017015180000	8/29/1968	DDDRIDGE	SPENCER ENTERPRISES	906	GR	GAS	39.1591	-80.8150	1 DONALD LEE GRIMM	7/15/1968			7/30/1968	WEST VIRGINIA	2007	01518
47017015340000	12/1/1968	DDDRIDGE	BET-RO INC	1248	GR	GAS	39.1523	-80.8122	3 ELI B LEESON HEIRS	10/17/1968			11/1/1968	WEST VIRGINIA	2142	01534
47017733000000		DDDRIDGE	HOPE NATURAL GAS		GR	UNKNWN	39.1690	-80.8165	7036 SAM GASTON					WEST VIRGINIA	0	73300
47017020720000	7/16/1920	DDDRIDGE	UNKNOWN	1017	GR	GAS	39.1802	-80.8222	4768 MAXWELL	6/9/1920			6/24/1920	WEST VIRGINIA	1850	02072
47017733450000		DDDRIDGE	ASH & CHAPMAN		GR	UNKNWN	39.1458	-80.7737	M S VAN HORN					WEST VIRGINIA	0	73345
47017312060000	10/31/1918	DDDRIDGE	CONSOLIDATED GAS SUPPLY CORPORATION	1193	GR	ABD-GW	39.1413	-80.7681	5288 G W SMITH	5/26/1918			6/10/1918	WEST VIRGINIA	2808	31206
47017733170000		DDDRIDGE	UNKNOWN		GR	UNKNWN	39.1463	-80.7946	JESSE WILLIAMS					WEST VIRGINIA	0	73317
47017733110000		DDDRIDGE	UNKNOWN		GR	UNKNWN	39.1632	-80.7937	4749 C GASTON					WEST VIRGINIA	0	73311
47017037880000	4/17/1990	DDDRIDGE	ENERGY CORPORATION OF AMERICA INC	1349	KB	GAS	39.1824	-80.7931	23 BLAUSER W B MAXWELL	3/11/1990	ALEXANDER	5412	3/21/1990	WEST VIRGINIA	5417	03788
47017049380000	6/5/2005	DDDRIDGE	KEY OIL COMPANY	1028	GR	GAS	39.1662	-80.7919	4 ADAMS A	2/28/2005	GORDON	3000	5/23/2005	WEST VIRGINIA	2581	04938
47017049360000	5/20/2005	DDDRIDGE	KEY OIL COMPANY	1247	GR	GAS	39.1641	-80.7893	2 ADAMS A	1/24/2005	GORDON	3000	5/11/2005	WEST VIRGINIA	2807	04936
47017002070000	10/1/1954	DDDRIDGE	DIVERSIFIED RESOURCES INCORPORATED	883	GR	GAS	39.1471	-80.7910	7 JESSIE WILLIAMS 3	8/17/1954			9/1/1954	WEST VIRGINIA	1331	02070
47017013170000	2/27/1919	DDDRIDGE	EQT PRODUCTION COMPANY	1057	GR	GAS	39.1416	-80.7845	PO-4709 F L LODGE	1/22/1919			2/16/1919	WEST VIRGINIA	1929	01317
47017012910000	9/1/1965	DDDRIDGE	MEADOWS S L JR PRODUCTION COMPANY	1017	GR	1O&1G	39.1407	-80.7834	2-RE THURMAN SPURGEON	7/18/1965			8/2/1965	WEST VIRGINIA	2021	01291
47017011490000		DDDRIDGE	ANJA RESOURCES		GR	PSEUDO	39.1334	-80.7876	6 LEWIS MAXWELL HEIRS					WEST VIRGINIA	0	01249
47017023860000	2/20/1914	DDDRIDGE	EQT PRODUCTION COMPANY	990	GR	GAS	39.1382	-80.7850	4244 F L LODGE	12/11/1913			12/26/1913	WEST VIRGINIA	2604	02386
47017732630000		DDDRIDGE	EQUITABLE RESOURCES EXPLORATION INC		GR	UNKNWN	39.1700	-80.7873	4663 M & F GASTON					WEST VIRGINIA	0	73263
47017018290000	12/1/1976	DDDRIDGE	MURVIN OIL COMPANY	1022	GR	ABD-GW	39.1787	-80.7921	4 W BRENT MAXWELL HRS	9/4/1976	BIG INJUN /SD/	2000	9/34/1976	WEST VIRGINIA	1955	01829
47017047400000	10/15/2003	DDDRIDGE	KEY OIL COMPANY	1215	GR	GAS	39.1578	-80.7835	2 HICKMAN	6/17/2003	ALEXANDER					

47017733440000		DODDRIDGE	UNKNOWN	GR	UNKNW	39.1397	-80.7733	1 RAY CONLEY				WEST VIRGINIA	0 73344	
47017013210000		9/1/1961	DODDRIDGE	PENNZOIL COMPANY	GR	UNKNW	39.1581	-80.7772	5 S L CHAPMAN	7/18/1961		8/2/1961	WEST VIRGINIA	0 01321
47017004680000			DODDRIDGE	ASH & CHAPMAN	GR	UNKNW	39.1482	-80.7757	1 ROY RUPPERT HEIRS				WEST VIRGINIA	0 00468
47017008350000	7/5/1966	7/1/1962	DODDRIDGE	DOLLEY ED LEE	1068 GR	ABDDGW	39.1478	-80.7761	1 H C CHAPMAN	5/17/1962		6/1/1962	WEST VIRGINIA	2084 00835
47017001850000		6/1/1948	DODDRIDGE	EQT PRODUCTION COMPANY	1103 GR	GAS	39.1510	-80.7802	4708 F L LODGE 3	4/17/1948		5/2/1948	WEST VIRGINIA	2008 00185
47017016310000	1/1/1974	8/11/1971	DODDRIDGE	WARREN DRILLING	1007 GR	ABD-GW	39.1349	-80.7667	1 SMITH HARRY M	7/28/1971	UNKNOWN	8/7/1971	WEST VIRGINIA	2690 01631
47017001680000		10/1/1946	DODDRIDGE	DIVERSIFIED RESOURCES INCORPORATED	905 GR	GAS	39.1501	-80.7947	1 JESSIE WILLIAMS	8/17/1946		9/1/1946	WEST VIRGINIA	2321 00168
47017020509001	5/24/2006	10/24/1926	DODDRIDGE	EQT PRODUCTION COMPANY	1066 GR	ABD-GW	39.1695	-80.7895	4653 GASTON MARY V			8/4/1926	WEST VIRGINIA	1944 02050
47017014290000		3/1/1967	DODDRIDGE	EQT PRODUCTION COMPANY	873 GR	OIL	39.1449	-80.7873	6213 F L LODGE	1/15/1967		1/30/1967	WEST VIRGINIA	1781 01429
47017732640000			DODDRIDGE	UNKNOWN	1163 GR	UNKNW	39.1741	-80.7917	4666 C GASTON				WEST VIRGINIA	0 73264
47017013670000		10/1/1966	DODDRIDGE	EQT PRODUCTION COMPANY	1071 GR	OIL	39.1471	-80.7850	6210 F L LODGE	8/17/1966		9/1/1966	WEST VIRGINIA	1998 01367
47017028880000		2/8/1981	DODDRIDGE	DORAN ASSOC	1163 KB	D&A	39.1398	-80.7906	1 LODGE F L	1/25/1981	BENSON /SD/	4500 2/4/1981	WEST VIRGINIA	2250 02888
47017039070000		9/29/1991	DODDRIDGE	ENERGY CORPORATION OF AMERICA INC	1349 KB	GAS	39.1743	-80.7879	BLAUSER/MAXWELL MAXWELL W B HEIRS ETAL	9/14/1991	ALEXANDER	5458 9/24/1991	WEST VIRGINIA	5534 03907
47017732720000			DODDRIDGE	UNKNOWN	1163 GR	UNKNW	39.1748	-80.7971	1 M J LEESON				WEST VIRGINIA	0 73273
47017020570000			DODDRIDGE	UNKNOWN	GR	PSEUDO	39.1645	-80.7986	4684 GASTON				WEST VIRGINIA	0 02057
47017733160000			DODDRIDGE	UNKNOWN	GR	UNKNW	39.1517	-80.7976	4660 F MAXWELL				WEST VIRGINIA	0 73316
47017732720000			DODDRIDGE	UNKNOWN	GR	UNKNW	39.1786	-80.7963	4579 M J LEESON				WEST VIRGINIA	0 73272
47017061200000		4/13/2013	DODDRIDGE	EQT PRODUCTION COMPANY	1252 KB	GAS	39.1817	-80.7991	VV 513171 GASTON S E	7/31/2012	MARCELLUS /SH/	8/30/2012	WEST VIRGINIA	11557 06112
47017020390000	5/5/2006	4/29/1917	DODDRIDGE	EQUITABLE PRODUCTION COMPANY	1037 GR	ABD-GW	39.1719	-80.7963	4532 GASTON	1/27/1917	BIG INJUN	2/27/1917	WEST VIRGINIA	1795 02039
47017733150000			DODDRIDGE	UNKNOWN	GR	UNKNW	39.1593	-80.8066	DDONALD L GRIMM				WEST VIRGINIA	0 73315
47017021130000	9/30/2015	6/8/1920	DODDRIDGE	EQT PRODUCTION COMPANY	1083 GR	ABD-GW	39.1689	-80.8044	6110 GASTON	2/29/1920	BIG INJUN	3/31/1920	WEST VIRGINIA	2485 02133
47017023110000		7/25/1979	DODDRIDGE	CONSOL GAS COMPANY	1018 KB	OIL	39.1778	-80.8240	1 HUSK HOWARD	2500 1/22/1979	WEIR /SD/	1/22/1979	WEST VIRGINIA	2543 02311
47017307880000	9/23/1949	4/11/1920	DODDRIDGE	PITTSBURGH & W VA GAS	1140 GR	ABD-GW	39.1812	-80.8180	4750 W B MAXWELL 3	2/29/1920		3/15/1920	WEST VIRGINIA	2023 30788
47017032420000		9/30/1983	DODDRIDGE	CONSOL GAS COMPANY	1039 KB	GAS	39.1750	-80.8238	2 MUTSCHELNKAUS ET AL	9/3/1983	ALEXANDER	5100 9/13/1983	WEST VIRGINIA	5534 03242
47017013060000			DODDRIDGE	PENNZOIL COMPANY	GR	PSEUDO	39.1565	-80.7776	4 S L CHAPMAN				WEST VIRGINIA	0 01306
47017014710000		9/1/1967	DODDRIDGE	BROOME ED INCORPORATED	1036 GR	10&1G	39.1344	-80.7670	2 MELVILLE CONLEY	7/18/1967		8/2/1967	WEST VIRGINIA	2653 01471
47017001790001	9/9/1947	8/1/1947	DODDRIDGE	HOPE NATURAL GAS	973 GR	D&A	39.1498	-80.7731	5283 DECO VAN HORN	6/17/1947		7/2/1947	WEST VIRGINIA	2600 00179
47017732590000			DODDRIDGE	UNKNOWN	GR	UNKNW	39.1670	-80.7796	49 S W STOUT ET AL				WEST VIRGINIA	0 73259
47017014090000		10/1/1966	DODDRIDGE	JAY-BEE OIL & GAS INC	1219 GR	10&1G	39.1394	-80.7696	2 MELVILLE CONLEY	8/17/1966		9/1/1966	WEST VIRGINIA	3000 01409
47017004700000			DODDRIDGE	UNKNOWN	GR	PSEUDO	39.1508	-80.7729	3 ROY RUPPERT HEIRS				WEST VIRGINIA	0 00470
47017035820000		10/28/1987	DODDRIDGE	CONSOL GAS COMPANY	1020 KB	GAS	39.1482	-80.7771	3000 THURMAN SPURGEON	9/29/1987	ALEXANDER	5500 10/9/1987	WEST VIRGINIA	5343 03582
47017049350000		3/5/2005	DODDRIDGE	KEY OIL COMPANY	1203 GR	GAS	39.1665	-80.7884	1 ADAMS A	3000 1/24/2005	GORDON	2/23/2005	WEST VIRGINIA	2770 04935
47017732620000			DODDRIDGE	UNKNOWN	GR	UNKNW	39.1694	-80.7884	M & F GASTON				WEST VIRGINIA	0 73262
47017038320000		9/20/1990	DODDRIDGE	ENERGY CORPORATION OF AMERICA INC	1102 KB	GAS	39.1545	-80.7920	5 MERT/WILLIAMS	8/25/1990	ALEXANDER	5270 9/4/1990	WEST VIRGINIA	5283 03832
47017020680000		3/2/1920	DODDRIDGE	EQT PRODUCTION COMPANY	1035 GR	GAS	39.1668	-80.7942	4744 GASTON C	12/3/1919	BIG INJUN	1/3/1920	WEST VIRGINIA	1833 02068
47017015380000		3/10/1969	DODDRIDGE	MEADOWS S L JR PRODUCTION COMPANY	1035 GR	OIL	39.1393	-80.7822	1 JOSHUA ADAMS	12/22/1968	UNKNOWN	1/3/1969	WEST VIRGINIA	2010 01538
47017013160000		1/5/1966	DODDRIDGE	EQT PRODUCTION COMPANY	1131 GR	OIL	39.1503	-80.7811	6208 W J HICKMAN 2	9/13/1965		9/28/1965	WEST VIRGINIA	2003 01316
47017018810000		5/27/1978	DODDRIDGE	EQT PRODUCTION COMPANY	908 GR	OIL	39.1416	-80.7882	6230 F L LODGE	3/17/1978	BIG INJUN /SD/	1880 3/27/1978	WEST VIRGINIA	1893 01881
47017016330000	1/1/1974	8/8/1971	DODDRIDGE	WARREN DRILLING	1226 GR	ABD-GW	39.1565	-80.7949	4/1-ADAMS/ MAXWELL W B	6/30/1971	UNKNOWN	7/10/1971	WEST VIRGINIA	2700 01623
47017733110000			DODDRIDGE	UNKNOWN	GR	UNKNW	39.1516	-80.8083	GEORGIA MCKAINN				WEST VIRGINIA	0 73321
47017061140000		5/6/2013	DODDRIDGE	EQT PRODUCTION COMPANY	1220 GR	GAS	39.1815	-80.7992	VV 513174 GASTON S E	8/10/2012	MARCELLUS /SH/	8/30/2012	WEST VIRGINIA	12834 06114
47017035850000	6/21/1988	11/9/1987	DODDRIDGE	ARIES PETROLEUM CORPORATION	930 KB	2OIL	39.1533	-80.8056	1 PRUNTY EDWARD D	9/29/1987	DEVONIAN /SH/	5250 10/9/1987	WEST VIRGINIA	5258 03585
47017021100000			DODDRIDGE	EQUITABLE GAS COMPANY	906 GR	ABD-GW	39.1694	-80.8105	6106 GASTON				WEST VIRGINIA	1732 02110
47017007820000		6/1/1962	DODDRIDGE	UNKNOWN	883 GR	D&A-OG	39.1686	-80.8193	1 M L HAUGHT	4/17/1962		5/2/1962	WEST VIRGINIA	2362 00782
47017001960000		9/27/1917	DODDRIDGE	FARR ENTERPRISES	831 GR	GAS	39.1572	-80.8134	4593 M S GASTON	8/20/1917		9/4/1917	WEST VIRGINIA	1429 00196
47017732790000			DODDRIDGE	HOPE NATURAL GAS	GR	UNKNW	39.1809	-80.8140	MABEL HAUGHT ET AL				WEST VIRGINIA	0 73279
4701700025					1012.0000	UNK	-80.8015	39.1659						-1490.0000 00025
4701700189					842.0000	O&G	-80.8221	39.1719						-917.0000 00189
4701700190					836.0000	O&G	-80.8218	39.1707						-900.0000 00190
4701700193					882.0000	DRY	-80.8219	39.1693						-868.0000 00193
4701700194					885.0000	GAS	-80.8234	39.1729						-865.0000 00194
4701700197					1065.0000	P&A	-80.8050	39.1709						-1418.0000 00197
4701701325					1008.0000	DRY	-80.7749	39.1301						-1072.0000 01325
4701702036					0.0000	GAS	-80.8087	39.1516						-1554.0000 02036
4701702047					0.0000	GAS	-80.7981	39.1682						-1907.0000 02047
4701703048					0.0000	GAS	-80.7876	39.1695						-1944.0000 02048
4701702051					0.0000	GAS	-80.7980	39.1521						-1801.0000 02051
4701702067					0.0000	GAS	-80.8257	39.1770						-1957.0000 02067
4701702109					0.0000	GAS	-80.8185	39.1790						-1898.0000 02109
4701704939					1204.0000	GAS	-80.7914	39.1686						-1567.0000 04939
4701704958					911.0000	GAS	-80.7719	39.1489						-1687.0000 04958
4701705933					1200.0000	GAS	-80.7821	39.1675						-1784.0000 05933

RECEIVED
Office of Oil and Gas
 MAR 11 2019
 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 Company 306686 Doddridge South West/Cove Oxford
Operator ID County District Quadrangle

2) Operator's Well Number: 516238 (OXF43H30) Well Pad Name: OXF43

3) Farm Name/Surface Owner: Cathy Jean Wetzal, et. al. Public Road Access: Rt. 20

4) Elevation, current ground: 1,229' Elevation, proposed post-construction: 1,229' (Site built)

5) Well Type (a) Gas X Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):

Target formation - Marcellus: Depth - 6,666'; Anticipated Thickness - 56'; Anticipated Target Pressure - 2,951 PSI

8) Proposed Total Vertical Depth: 6,666'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,391'

11) Proposed Horizontal Leg Length: 8,902'

12) Approximate Fresh Water Strata Depths: 70', 221', 307', 382'

13) Method to Determine Fresh Water Depths: By offset wells

14) Approximate Saltwater Depths: None present in offset wells

15) Approximate Coal Seam Depths: 322'

16) Approximate Depth to Possible Void (coal mine, karst, other): None reported

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No _____

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

RECEIVED
Office of Oil and Gas
MAR 15 2019
WV Department of
Environmental Protection

DDC
3/16/19

4701700748
06/07/2019

WW-6B
(04/15)

API NO. 47- 017 - 06746
OPERATOR WELL NO. 516238 (OXF43H30)
Well Pad Name: OXF43

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	49 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	553	553	564ft ³ / CTS
Coal							
Intermediate	9 5/8	New	P-110	40	5528	5528	2188 ft ³ / CTS
Production	5 1/2	New	P-110	20	18391	18391	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination.	
Liners							

RECEIVED
Office of Oil and Gas
MAR 15 2019
WV Department of Environmental Protection

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	.312	1378	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	7900	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

DAC
3/16/19

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 3658'. 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): _____

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

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 % Calcium 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.

DR
3/15/19

RECEIVED
Office of Oil and Gas
MAR 15 2019
WV Department of
Environmental Protection



March 6, 2019

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

Re: Casing on 516238 (OXF43H30)

Dear Mr. Brewer,

EQT has set the 13-3/8" surface casing at 553' KB, 171' below the deepest fresh water. We will set the 9-5/8" intermediate string at 5,291' KB, 50' below the base of the Alexander formation.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'John Zavatchan'.

John Zavatchan
Landman - Permitting

Enc.

RECEIVED
Office of Oil and Gas
MAR 15 2019
WV Department of
Environmental Protection



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

RECEIVED
Office of Oil and Gas

MAR 15 2019

WV Department of
Environmental Protection

Promoting a healthy environment.

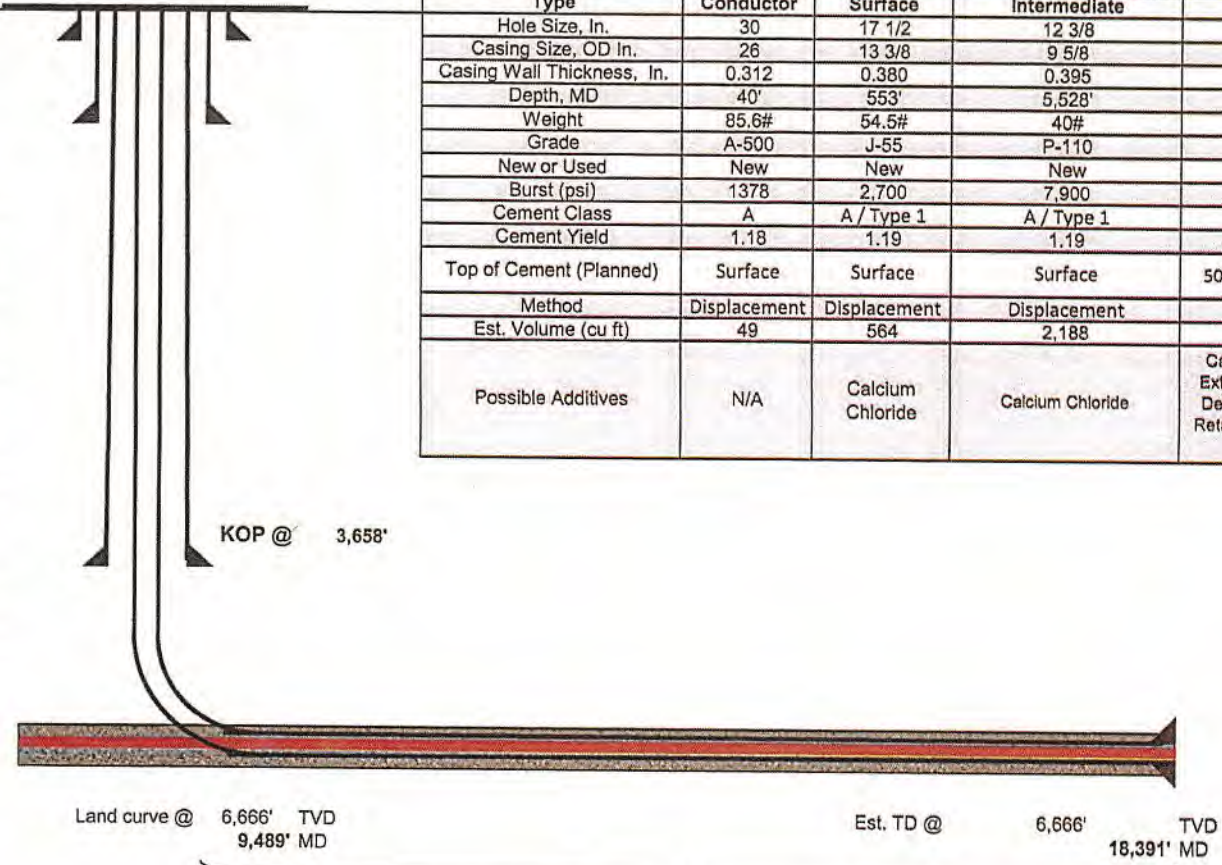
Well 516238(OXF43H30)
EQT Production
Oxford Quad
Doddridge County, WV

Azimuth 336
 Vertical Section 10982
 Enertia # 516238

Note: Diagram is not to scale

Formations	Top TVD	Base TVD
Conductor	40	
Base Fresh Water	382	
Surface Casing	553	
Base Red Rock		829
Maxton	1103 - 1143	
Big Lime	1979 - 2047	
Big Injun	2091 - 2123	
Weir	2265 - 2391	
Gantz	2465 - 2547	
Fifty foot	2547 - 2604	
Thirty foot	2645 - 2681	
Gordon	2687 - 2736	
Forth Sand	2787 - 2854	
Bayard	2967 - 3038	
Warren	3301 - 3367	
Speechley	3367 - 3872	
Balltown A	3872 - 4230	
Riley	4470 - 4846	
Benson	4846 - 4940	
Alexander	5148 - 5241	
Intermediate Casing		5291
Sonyea	6324 - 6474	
Middlesex	6474 - 6464	
Genesee	6464 - 6573	
Geneseo	6573 - 6615	
Tully	6615 - 6628	
Hamilton	6628 - 6646	
Marcellus	6646 - 6702	
Production Casing	18391	MD
Onondaga	6702	

Casing and Cementing		Deepest Fresh Water: 382'		
Type	Conductor	Surface	Intermediate	Production
Hole Size, In.	30	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.312	0.380	0.395	0.361
Depth, MD	40'	553'	5,528'	18,391'
Weight	85.6#	54.5#	40#	20#
Grade	A-500	J-55	P-110	P-110
New or Used	New	New	New	New
Burst (psi)	1378	2,700	7,900	12,640
Cement Class	A	A / Type 1	A / Type 1	A / H
Cement Yield	1.18	1.19	1.19	1.123 / 2.098
Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Method	Displacement	Displacement	Displacement	Displacement
Est. Volume (cu ft)	49	564	2,188	4,130
Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Calcium Carbonate, Fluid Loss, Extender, Dispersant, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent



Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 3658'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304) 826-0450
(304) 826-0452 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.

RECEIVED
Office of Oil and Gas
MAR 15 2019
WV Department of
Environmental Protection

Promoting a healthy environment.

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
MAR 15 2019
WV Department of
Environmental Protection

Well Operator's Report of Well Work



Well Number: 516238

API: 47 - 017 - 06746

Submission: Initial Amended

Notes: EQT has set 13-3/8" casing to 553' and cemented to surface with 520 sks of Class A cement. In the future, EQT plans to return to drill the remaining sections of the wellbore then complete stimulation operations and start production.

RECEIVED
Office of Oil and Gas

MAR 26 2019

WV Department of
Environmental Protection

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-017-06746 County DODDRIDGE District SOUTH WEST / COVE
Quad OXFORD Pad Name OXF43 Field/Pool Name N/A
Farm name Cathy Jean Wetzel, et. al. Well Number 516238
Operator (as registered with the OOG) EQT Production Company
Address 115 Professional Place, PO Box 280 City Bridgeport State WV Zip 26330

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,334,220.64 Easting 517,916.81
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 1229 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary
Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s) N/A

Date permit issued 08/30/2016 Date drilling commenced 08/05/2017 Date drilling ceased 08/05/2017
Date completion activities began N/A Date completion activities ceased N/A
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

RECEIVED
Office of Oil and Gas

Freshwater depth(s) ft 70,221,307,382 Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 321 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

MAR 26 2019
WV Department of
Environmental Protection

Reviewed by:

WR-35
Rev. 8/23/13

API 47-017 - 06746

Farm name Cathy Jean Wetzel, et. al.

Well number 516238

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	553'	NEW	J-55 54.5#	200'	Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details No issues during cement job.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	49	15.6	1.18	57.82	0	8
Surface	CLASS A	520	15.6	1.20	624	0	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 803 MD

Loggers TD (ft) N/A

Deepest formation penetrated WAYNESBURG A

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) N/A

Check all wireline logs run
 caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall
 Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING CONDUCTOR NONE
SURFACE, ON SHOE TRACK AND EVERY 100 FEET TO SURFACE

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

RECEIVED
Office of Oil and Gas

MAR 26 2019

06/07/2019

WR-35
Rev. 8/23/13

Page ___ of ___

API 47- 017 - 06746 Farm name Cathy Jean Wetzel, et. al. Well number 516238

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company _____
Address _____ City _____ State _____ Zip _____

RECEIVED
Office of Oil and Gas
MAR 26 2019
WV Department of
Environmental Protection

06/07/2019



Where energy meets innovation.

EQT PRODUCTION

Doddridge County, WV

OXF43

OXF43H30 (516238) - Slot 516238

Main

Design: 516238 As Drilled

Standard Survey Report

19 March, 2019

RECEIVED
Office of Oil and Gas
MAR 26 2019
WV Department of
Environmental Protection



EQT
Survey Report

Database		Local Coordinate Reference	
Company		TVD Reference	
Project		MD Reference	
Site		North Reference	
Well		Survey Calculation Method	
Wellbore			
Design			

Project: [REDACTED]

Map System: US State Plane 1927 (Exact solution) System Datum: Mean Sea Level
 Geo Datum: NAD 1927 (NADCON CONUS)
 Map Zone: West Virginia North 4701

Site: [REDACTED]

Site Position: Northing: 241,813,000 usft Latitude: 39.16
 From: Map Easting: 1,633,421,760 usft Longitude: -80.78
 Position Uncertainty: 0.000 usft Slot Radius: 13-3/16" Grid Convergence: -0.8245°

Well: [REDACTED]

Well Position: +N-S 0.000 usft Northing: 241,802,380 usft Latitude: 38.1589220
 +E-W 0.000 usft Easting: 1,633,402,144 usft Longitude: 80.7928035°W
 Position Uncertainty: 0.000 usft Wellhead Elevation: 0.000 usft Ground Level: 1,229,000 usft

Wellbore: [REDACTED]

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/31/2015	-8.4415	66.6108	52,050,360,844.78

Design: [REDACTED]

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.000

Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.000	0.000	0.000	319.471

Survey Program Date: 2/19/2019

From (')	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	603.000	Gyrodata Gyro (Main)	GYP_DP_MS	Updated 06/27 Gyrodata Continuous Tool including GyroCompass adj

Survey: [REDACTED]

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.000	0.000	0.000	0.000	-1,242.000	0.000	0.000	0.000	0.00000	0.00000	0.00000
100.000	0.060	121.730	100.000	-1,142.000	-0.028	0.045	-0.050	0.05000	0.06000	0.00000
200.000	0.050	157.570	200.000	-1,042.000	-0.095	0.106	-0.141	0.03516	-0.01000	35.84000
300.000	0.050	202.630	300.000	-942.000	-0.176	0.106	-0.202	0.03832	0.00000	45.06000
400.000	0.040	82.660	400.000	-842.000	-0.212	0.123	-0.241	0.07809	-0.01000	-119.97000
										0
500.000	0.060	89.640	500.000	-742.000	-0.189	0.207	-0.278	0.02288	0.02000	-13.02000
Final Gyro Survey = 670.000 MD / VD										
570.000	0.130	133.350	570.000	-672.000	-0.231	0.299	-0.370	0.16654	0.10000	91.01000

RECEIVED
Office of Oil and Gas



EQT
Survey Report

Date Recd: Company: Project: Well: Wellbore: Design:	Local Coordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:
---	--

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (1/100usft)	Bulk Rate (1/100usft)	Turn Rate (1/100usft)
PROJ to TD=603' MD/TVD - DXF=4830 L4 J118 - DXF=4300 LP X 316 - SX4330 AS Drilled TD=611530 As Drilled TD - DXF=4300 LP 2734 V										
603.000	0.130	133.350	603.000	-639.000	-0.282	0.354	-0.444	0.00000	0.00000	0.00000

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (604.253)	+E-W (-161.888)	Northing (usft)	Easting (usft)	Latitude	Longitude
4701703631 PROJ TD	0.000	360.000	5,414.00 0	504.253	-161.888	242,406.643	1,633,240.256	39.1583000	80.7834000°W
- actual wellpath misses target center by 4840.104usft at 603.000usft MD (603.000 TVD, -0.282 N, 0.354 E)									
- Circle (radius 203.000)									
4701705629 PROJ TD	0.000	360.000	6,708.00 0	-3,240.247	-669.632	236,662.142	1,632,732.513	39.1480000	80.7950000°W
- actual wellpath misses target center by 6943.867usft at 603.000usft MD (603.000 TVD, -0.282 N, 0.354 E)									
- Circle (radius 246.000)									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	Comment	
		+N-S (usft)	+E-W (usft)	
570.000	570.000	-0.231	0.299	Final Gyro Survey=570' MD/TVD
603.000	603.000	-0.282	0.354	PROJ to TD=603' MD/TVD

Checked By: _____ Approved By: _____ Date: _____

RECEIVED
Office of Oil and Gas
MAR 26 2019
WV Department of
Environmental Protection

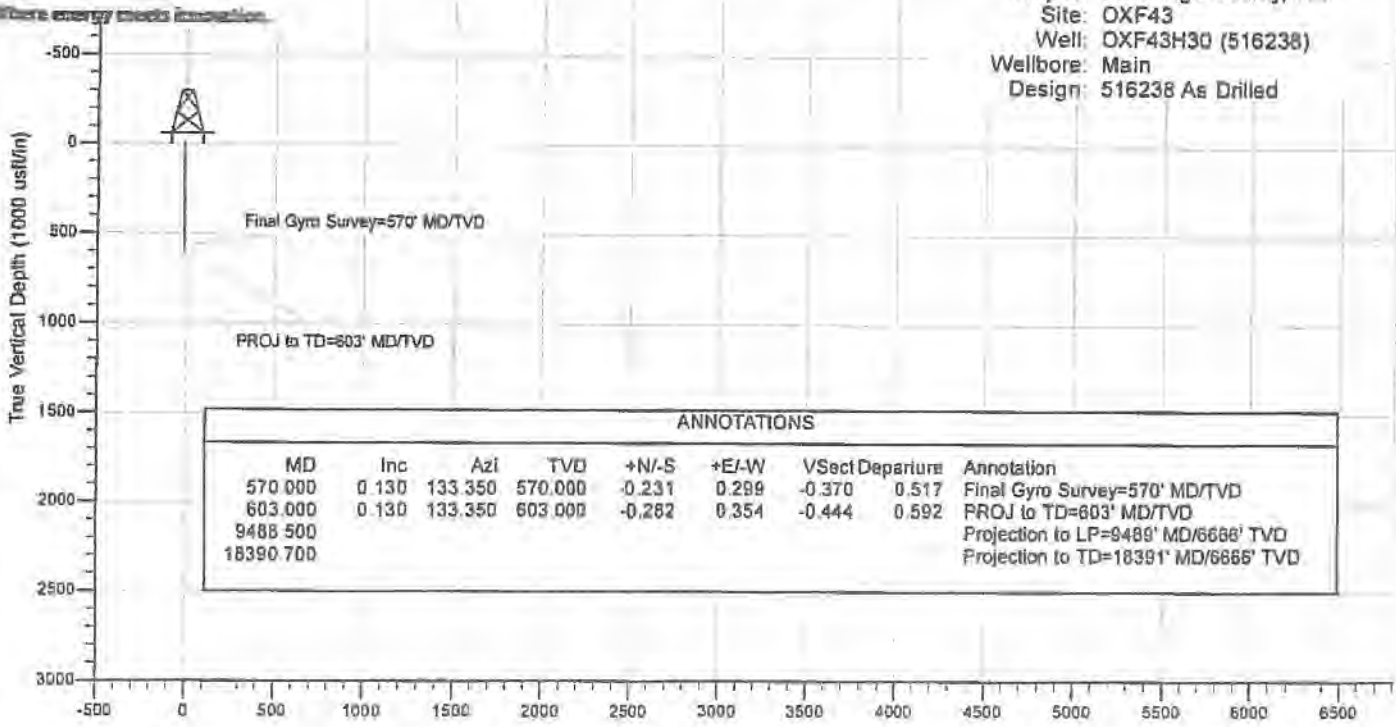


KB Elevation= KB@13 @ 1242.000usft
 Ground Elevation= 1229.000
 All measurements were taken from KB Elevation

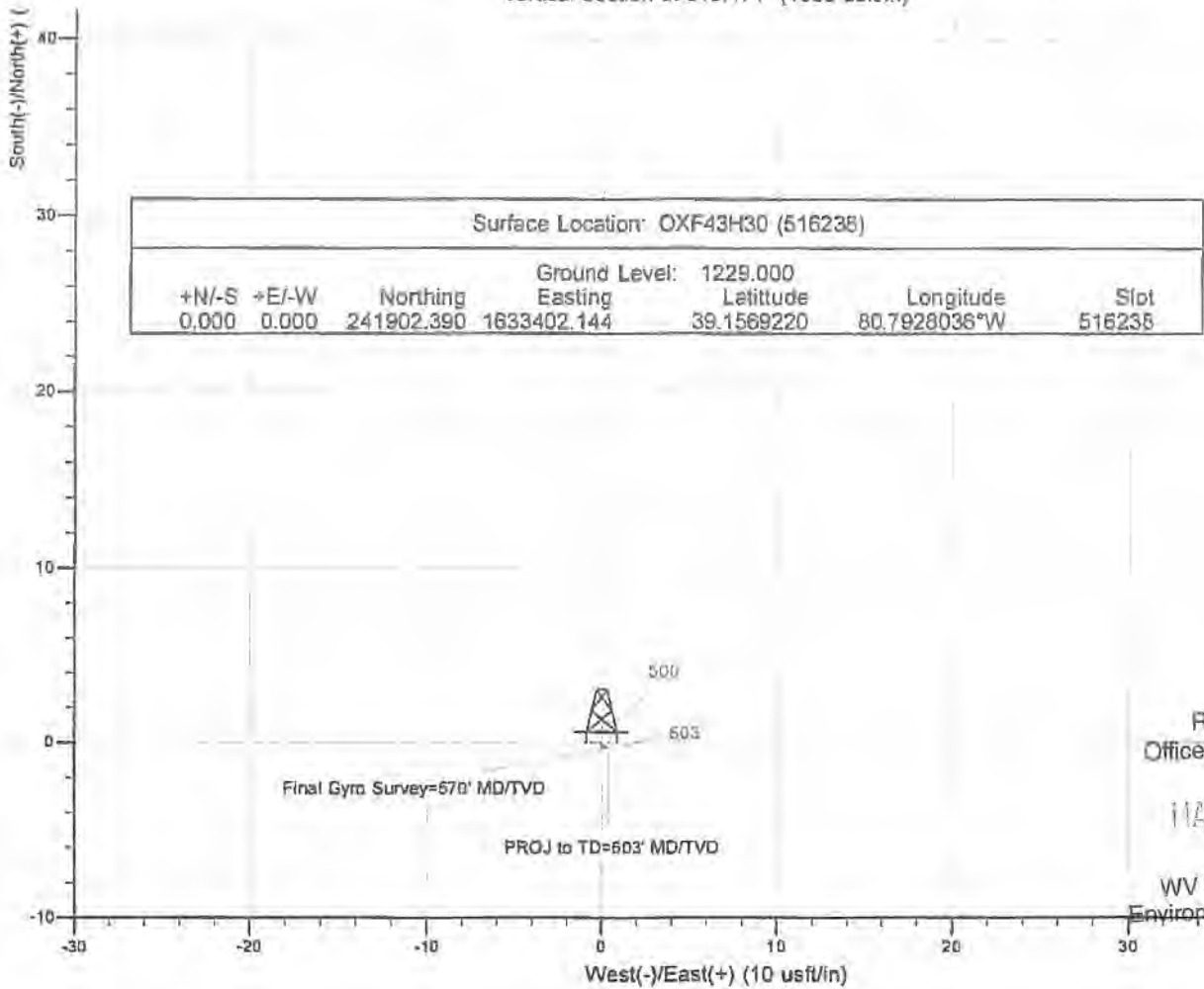
EQT PRODUCTION

06/07/2019

Project: Doddridge County, WV
 Site: OXF43
 Well: OXF43H30 (516238)
 Wellbore: Main
 Design: 516238 As Drilled



ANNOTATIONS								Annotation
MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Departure	
570.000	0.130	133.350	570.000	-0.231	0.299	-0.370	0.517	Final Gyro Survey=570' MD/TVD
603.000	0.130	133.350	603.000	-0.282	0.354	-0.444	0.592	PROJ to TD=603' MD/TVD
9488.500								Projection to LP=9488' MD/6686' TVD
18390.700								Projection to TD=18391' MD/6686' TVD



Surface Location: OXF43H30 (516238)							
Ground Level: 1229.000							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot	
0.000	0.000	241902.390	1633402.144	39.1569220	80.7928038°W	516238	

RECEIVED
 Office of Oil and Gas
 MAR 26 2019
 WV Department of
 Environmental Protection

06/07/2019

WW-9
(4/16)

API Number 47 - 017 - 06746

Operator's Well No. 516238 (OXF43H30)

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 No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 0014, 8462, 4037)
- Reuse (at API Number Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes. The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached List

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) John Zavatchan

Company Official Title Landman - Permitting

Subscribed and sworn before me this 8th day of March, 20 19

Amy L Todd Notary Public

My commission expires 8/21/2022

DAF
3/11/19



RECEIVED
Office of Oil and Gas
MAR 15 2019
WV Department of
Environmental Protection

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.

RECEIVED
Office of Oil and Gas
MAR 15 2019
WV Department of
Environmental Protection

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed no additional Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

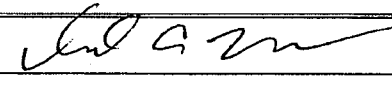
Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

Title: Oil & Gas Inspector Date: 7/11/19

Field Reviewed? Yes No



Where energy meets innovation.™

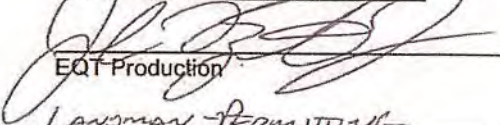
Site Specific Safety and Environmental Plan

EQT
OXF43 Pad
West Union
Doddridge County, WV

For Wells:

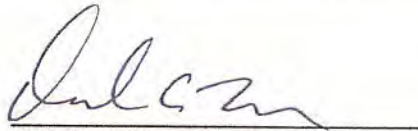
516238 516240 OXF43H34 OXF43H35
 (OXF43H30) (OXF43H31)

Date Prepared: February 21, 2018


 EQT Production
 Landman Permitting

Title

316119
 Date



WV Oil and Gas Inspector

Oil + Gas Inspector

Title
3/11/19
 Date

RECEIVED
 Office of Oil and Gas
 MAR 15 2019
 WV Department of
 Environmental Protection

EQT Production Water Plan

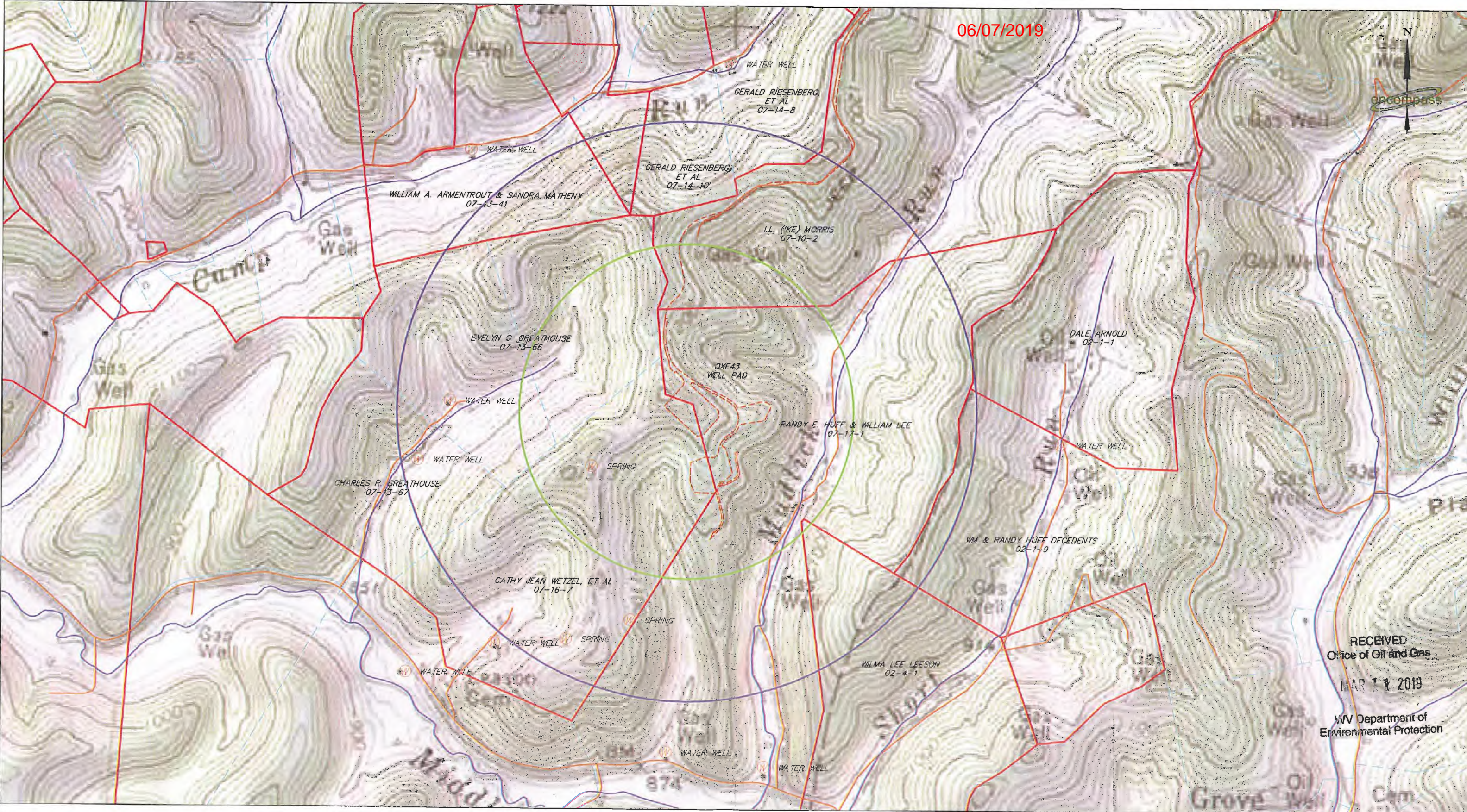
Offsite Disposals for Unconventional Wells

Facility Name	Address	Address 2	City	State	Zip	Phone	County	State	Permit Number
CWS Trucking Inc.	P.O. Box 391		Williamstown	WV	26187	740-516-3586	Noble	OH	3390
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	OH	43215	740-516-5381	Washington	OH	8462
LAD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	WV	USEPA WV 0014
Triad Energy	PO Box 430		Reno	OH	45773	740-516-6021 740-374-2940	Noble	OH	4037
Tri County Waste Water Management, Inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178 724-499-5647	Greene	PA	TC-1009
King Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101		Lawrence	PA	PAR000029132
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	WV	16330	304-326-6027	Harrison	WV	SWF-1032-98 Approval #100785WV
Waste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	WV	26104	304-428-0602	Wood	WV	SWF-1025 WV-0109400
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	OH	43903	740-543-4389	Jefferson	OH	06-08438
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road		McClellandtown	PA	15458	724-437-7336	Fayette	PA	100419
Westmoreland Sanitary Landfill	901 Tyrol Boulevard		Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
Austin Master Services	801 North 1st Street		Martins Ferry	OH	43935	740-609-3800	Belmont	OH	2014-541
Belmont Solids Control	77505 Cadiz-New Athens Road		Cadiz	OH	43907	740-942-1739	Harrison	OH	2015-511
Diversified Resources	3111 Braun Rd.		Belpre	OH	45714	740-401-0413	Washington	OH	
Buckeye Brine	23986 Airport Road		Coshocton	OH	43812	740-610-1512 724-591-4393	Coshocton	OH	34-031-27177 34-031-27178 34-031-27241
Central Environmental Services	28333 West Belpre Pike		Coolville	OH	45723	304-488-0701	Athens	OH	
Nuverra - Nichols	10555 Veto Road		Belpre	OH	45714	330-232-5041	Washington	OH	34-119-2-8776
Nuverra - Goff	9350 East Pike Road		Norwich	OH	43767	330-232-5041	Muskingum	OH	34-167-2-3862
Nuverra - Wolf	5480 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-1893
Nuverra - Pander	5310 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-3795
Nuverra - AnnaRock D-1	3549 Warner Road		Fowler	OH	44418	330-232-5041	Trumbull	OH	34-155-2-2403

RECEIVED
 Office of Oil and Gas
 MAY 11 2019
 WV Department of Environmental Protection

FQ Helen	199 Bowersock Road		Reno	OH	45773	740-374-2940 412-443-4397 740-236-2135	Washington	OH	34-167-2-9577
FQ Dexter	38505 Marietta Rd.		Dexter City	OH	45727	740-374-2940 412-443-4397 740-236-2135	Noble	OH	34-121-24037 34-121-24086
FQ Ritchie	122 Lonesome Pine Rd		Ellenboro	WV	26346	740-374-2940 412-443-4397 740-236-2135	Ritchie	WV	47-085-09721
FQ Mills	53610 TS Rd 706		Portland	OH	45770	740-374-2940 412-443-4397 740-236-2135	Meigs	OH	34-105-2-3619 34-105-2-3652 34-105-2-3637 34-105-2-3651
Petta Enterprises - OH	745 North 3rd Street		Cambridge	OH	43725	614-477-1368	Guernsey	OH	Ohio Chiefs Order 25-019
Petta Enterprises - WV	38 Technology Dr.		Tridelpia	WV	26059	740-255-5727	Ohio	WV	
Deep Rock Disposal	2341 OH-821		Marietta	OH	45750	304-629-0176	Washington	OH	34-167-2-9766

06/07/2019



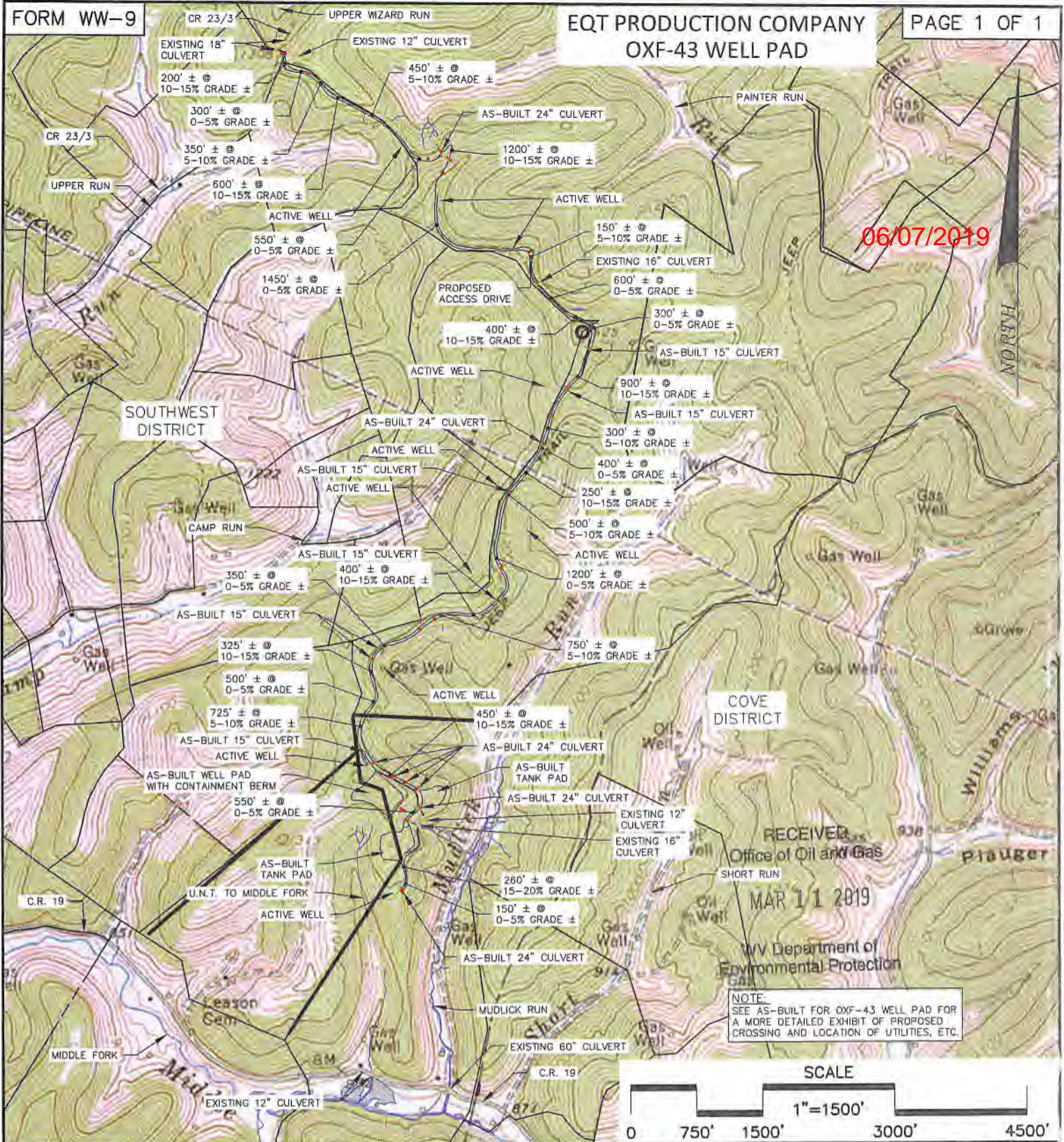
RECEIVED
Office of Oil and Gas
MAR 11 2019
WV Department of
Environmental Protection

- WATER FEATURE (AS NOTED)
- 1,500' BUFFER
- 2,600' BUFFER
- PARCEL
- ROAD
- EDGE OF WATER
- LEASE LINE
- ACCESS ROAD / PAD

SCALE: 1" = 800'	DRAWN BY: VER
DATE: 1/29/2019	REV DATE: JOB NO.: 60635

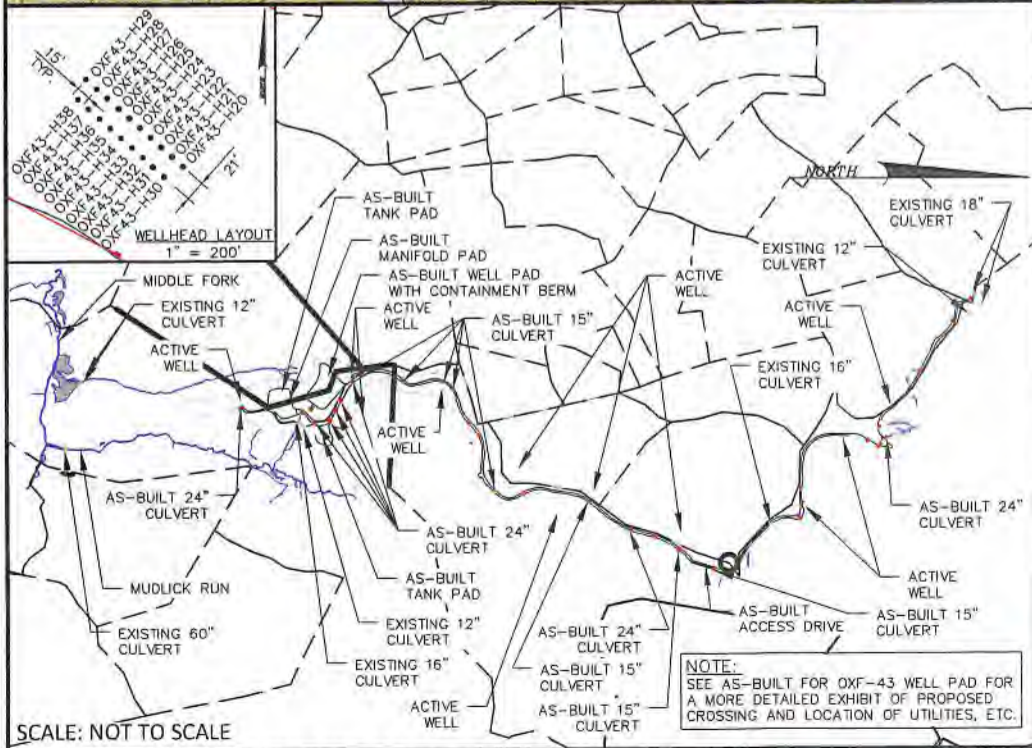
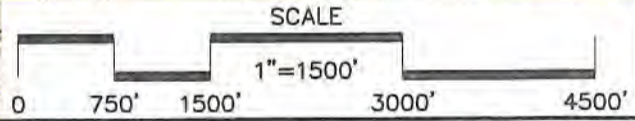
EQT PRODUCTION COMPANY
OXF43 PAD
 RESIDENTIAL WATER SUPPLY MAP
 SOUTHWEST TAX DISTRICT, DOODRIDGE COUNTY, WV

800' 400' 0 800'	REV 1
	SHEET: 1 OF 1



06/07/2019

NOTE:
SEE AS-BUILT FOR OXF-43 WELL PAD FOR
A MORE DETAILED EXHIBIT OF PROPOSED
CROSSING AND LOCATION OF UTILITIES, ETC.



ALL ROADS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV DEP OIL AND GAS BMP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV DOT REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY DOT.

APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV DEP OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT AND STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

- = AS-BUILT CULVERT 18" MIN. UNLESS OTHERWISE NOTED
- = EXISTING CULVERT
- = APPROXIMATE LIMIT OF DISTURBANCE

NOTE:
SEE AS-BUILT FOR OXF-43 WELL PAD FOR
A MORE DETAILED EXHIBIT OF PROPOSED
CROSSING AND LOCATION OF UTILITIES, ETC.

**CONSTRUCTION AND RECLAMATION PLAN
OXF-43 WELL PAD**

SOUTHWEST TAX DISTRICT

DODDRIDGE COUNTY, WV



DRAWN BY: DAW

DATE: 4/27/18

SCALE: AS NOTED

324' LATITUDE: 39°10'00" TH

7,696' LATITUDE: 39°12'30" BH

516238 (OXF43H30)
OXF43
EQT Production Company

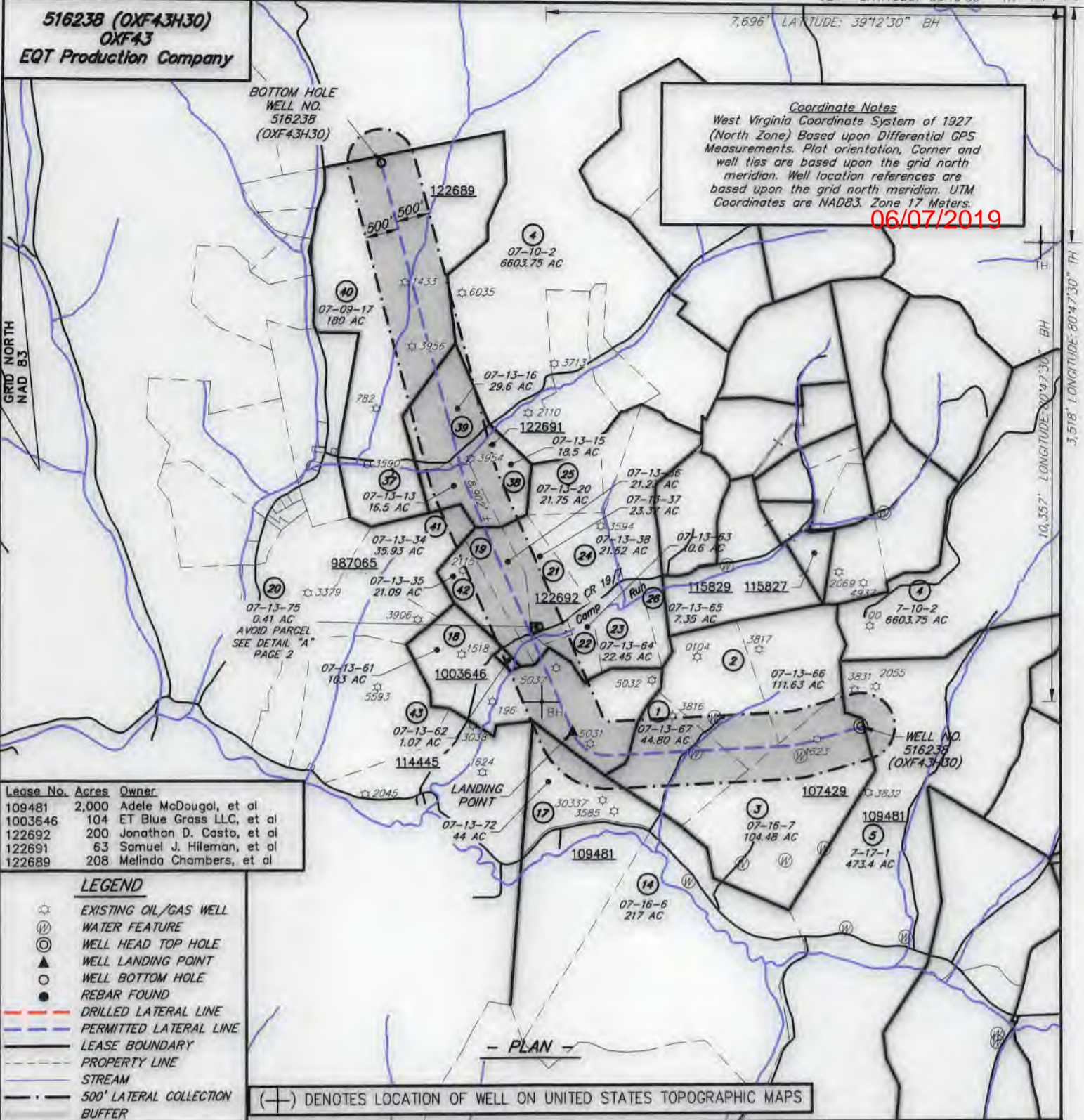
BOTTOM HOLE
WELL NO.
516238
(OXF43H30)

Coordinate Notes
West Virginia Coordinate System of 1927
(North Zone) Based upon Differential GPS
Measurements. Plat orientation, Corner and
well ties are based upon the grid north
meridian. Well location references are
based upon the grid north meridian. UTM
Coordinates are NAD83, Zone 17 Meters.

06/07/2019

GRID NORTH
NAD 83

10,357' LONGITUDE: 80°47'30" BH



Lease No.	Acres	Owner
109481	2,000	Adele McDougal, et al
1003646	104	ET Blue Grass LLC, et al
122692	200	Jonathon D. Casto, et al
122691	63	Samuel J. Hileman, et al
122689	208	Melinda Chambers, et al

- LEGEND**
- ☆ EXISTING OIL/GAS WELL
 - ⊕ WATER FEATURE
 - ⊙ WELL HEAD TOP HOLE
 - ▲ WELL LANDING POINT
 - WELL BOTTOM HOLE
 - REBAR FOUND
 - DRILLED LATERAL LINE
 - PERMITTED LATERAL LINE
 - LEASE BOUNDARY
 - PROPERTY LINE
 - STREAM
 - 500' LATERAL COLLECTION BUFFER

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

- PLAN -



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 AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

[Signature]



WWW.ENCOMPASSSERVICES.COM PLOT DATE: 3/7/2019 CAD FILE: OXF_43_WELL_PLAT-2019-03-01.DWG

FILE NO.: EES-60635
 DRAWING NO.: OXF43_Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: ±3'
 PROVEN SOURCE OF ELEVATION: GPS

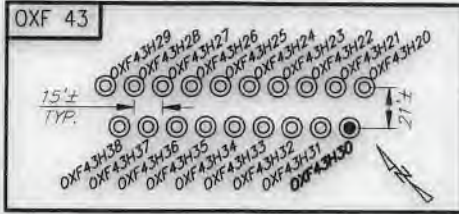
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

DATE: MARCH 7, 20 19
 OPERATORS: 516238 (OXF43H30)
 WELL NO.: 516238 (OXF43H30)
 API WELL NO.: 47 017 06746
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION, ELEVATION: 1229' (As-Built Pad) WATERSHED: Middle Fork Hughes River QUADRANGLE: OXFORD
 DISTRICT: SOUTH WEST / COVE COUNTY: DODDRIDGE
 SURFACE OWNER: Cathy Jean Wetzel, ET AL ACREAGE: 104.48± AC
 ROYALTY OWNER: Franklin Maxwell Heirs L. P. LEASE NO.: 107429 ACREAGE: 255± AC
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 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 DESIGNATED AGENT: Jason Ranson
 ADDRESS: 2400 Ansys Drive, Suite 200 ADDRESS: 115 Professional Pl., P.O. Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

516238 (OXF43H30)
OXF43
EQT Production Company

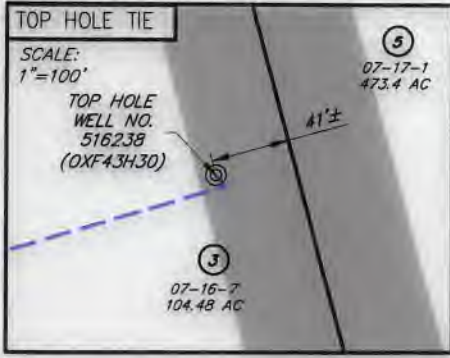


516238 (OXF43H30) Well Point Coordinates

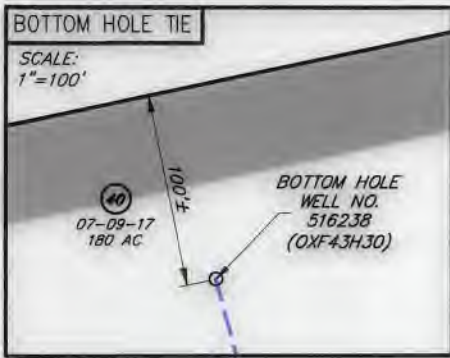
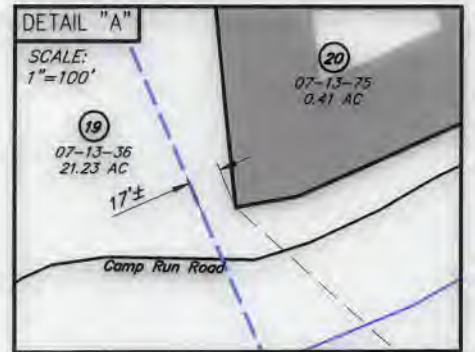
Top Hole Coordinates		
NAD 27 S.P.C. (Ft.)	N: 241,902.39	E: 1,633,402.15
NAD 27 GEO	LAT: 39.156922	LONG: 80.792804
NAD 83 UTM 17N (M)	N 4,334,220.6	E: 517,916.8
NAD 83 S.P.C. (Ft.)	N 241,937.7	E: 1,601,961.3

Landing Point Coordinates		
NAD 27 S.P.C. (Ft.)	N: 241,833.79	E: 1,629,125.40
NAD 27 GEO	LAT: 39.156564	LONG: 80.807880
NAD 83 UTM 17N (M)	N 4,334,220.6	E: 517,916.8
NAD 83 S.P.C. (Ft.)	N 241,862.0	E: 1,597,884.6

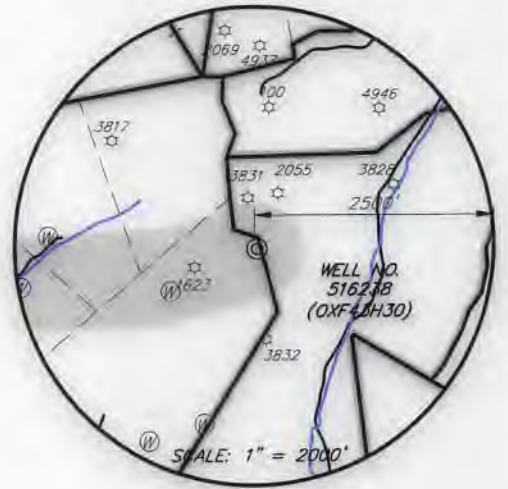
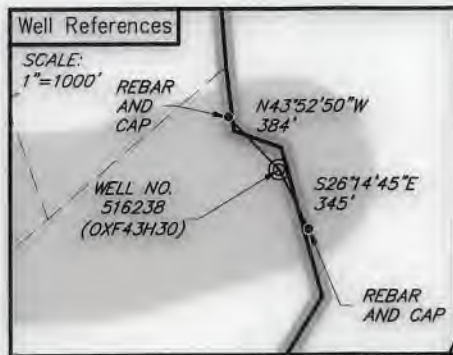
Bottom Hole Coordinates		
NAD 27 S.P.C. (Ft.)	N: 250,233.96	E: 1,626,248.09
NAD 27 GEO	LAT: 39.179509	LONG: 80.818460
NAD 83 UTM 17N (M)	N 4,336,722.4	E: 515,695.0
NAD 83 S.P.C. (Ft.)	N 250,269.1	E: 1,594,807.2



NO.	SURFACE OWNER
1	CHARLES R. GREATHOUSE
2	EVELYN G. GREATHOUSE
3	CATHY JEAN WETZEL, ET AL
18	EDRA LOUISE GRIMM
19	RANDALL L. GRIMM
37	CAROLYN S. GASTON, ET AL
39	CAROLYN S. GASTON, ET AL
40	JOAN H. CASSIDY TRUST



NO.	ADJACENT OWNER
4	I.L. (IKE) MORRIS
5	RANDY E. & WILLIAM LEE HUFF
17	DARLENE K. PRUNTY
20	ERNEST JONES, ET AL
21	RANDALL L. & KELLY GRIMM
22	RANDALL L. & KELLY GRIMM
38	SAMUEL D. GASTON
41	KATHRYN GOODWIN, ET AL
42	JERRI KATHRYN FOWLER
43	JERRI KATHRYN FOWLER



LEGEND

- ☆ EXISTING OIL/GAS WELL
- ⊙ WATER FEATURE
- ⊙ WELL HEAD TOP HOLE
- ▲ WELL LANDING POINT
- WELL BOTTOM HOLE
- REBAR FOUND
- DRILLED LATERAL LINE
- PERMITTED LATERAL LINE
- LEASE BOUNDARY
- PROPERTY LINE
- 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 AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

[Signature]



FILE NO.: EES-60635
 DRAWING NO.: OXF43_Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: ±3'
 PROVEN SOURCE OF ELEVATION: GPS

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

DATE MARCH 7, 20 19
 OPERATORS
 WELL NO. 516238 (OXF43H30)
 API WELL NO.
47 017 06746
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION, ELEVATION: 1229' (As-Built Pad) WATERSHED: Middle Fork Hughes River QUADRANGLE: OXFORD
 DISTRICT: SOUTH WEST / COVE COUNTY: DODDRIDGE
 SURFACE OWNER: Cathy Jean Wetzel, ET AL ACREAGE: 104.48± AC
 ROYALTY OWNER: Franklin Maxwell Heirs L. P. LEASE NO.: 107429 ACREAGE: 255± AC
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 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 DESIGNATED AGENT: Jason Ranson
 ADDRESS: 2400 Ansys Drive, Suite 200 ADDRESS: 115 Professional Pl. P.O. Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

WWW.ENCOMPASSSERVICES.COM PLOT DATE: 3/7/2019 CAD FILE: OXF 43_WELL PLAT-2019-03-01.DWG

MAR 11 2019

4701706746 06/07/2019

WW-6A1
(5/13)

Operator's Well No. 516238 (OXF43H30)

WV Department of
Environmental Protection

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

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

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

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

See Attached

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

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

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

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

Well Operator: EQT Production Company
 By: John Zavatchan
 Its: Landman - Permitting

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		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
1003646	ET Blue Grass LLC, et al (current royalty owner)		*	
	Cyril Scott, et ux, et al (original lessor)	Hugh Spencer		LB91/637
	Hugh Spencer	J & J Enterprises		LB111/390
	J & J Enterprises	Eastern American Energy Corp.		LB211/137
	Eastern American Energy Corp.	Energy Corporation of America		LB240/498
	Energy Corporation of America	Antero Resources Corp.		LB272/339
	Antero Resources Corp.	EQT Production Company		DB371/448

WV Department of Environmental Protection

MAR 11 2019

RECEIVED
Office of Oil and Gas

DPR...

4701706746

<u>122692</u>	<u>Jonathan D. Casto, et al (current royalty owner)</u>	**	
	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
	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
<u>122691</u>	<u>Samuel J. Hileman, et al (current royalty owner)</u>	**	
	John M. Gaston, et ux (original lessor)		J. C. Trainer LB31/311
	J. C. Trainer		Carter Oil Co. LB37/389
	Carter Oil Co.		Hope Natural Gas Co. LB42/410
	Hope Natural Gas Co.		Equitable Gas Company LB157/389
	Equitable Gas Company		Equitrans, Inc. LB154/475
	Equitrans, Inc.		EQT Production Company LB486/87
<u>122689</u>	<u>Melinda Chambers, et al (current royalty owner)</u>	**	
	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
	Equitable Production-Eastern States, Inc.		Equitable Production Company CB281/346
	Equitable Production Company		EQT Production Company CB281/346

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

RECEIVED

Office of Oil and Gas

JUN 05 2019



January 30, 2019

Equitrans Midstream Corporation
C/O Equitrans, L.P.
2200 Energy Drive
Canonsburg, PA 15317

**RE: Permission to Permit Wells Through Tax Map Parcels 07-13-13; 07-13-15;
07-13-16 known as lease number 122691 Oxford Quad, Doddridge County, West Virginia**

EQT Production Company ("EQT") hereby requests Equitrans, L.P.'s ("Equitrans") permission to proceed with its plans to permit the horizontal wells known as the OXF43 in Oxford Quad, Doddridge County, West Virginia. EQT will not drill said horizontal wells through Equitrans' leasehold until EQT and Equitrans enter into an Agreement which will grant EQT the necessary rights to drill the wells through the subject Leasehold.

The "Leasehold" insofar as this letter is concerned is collectively defined as:

- (1) The property covered by that certain oil and gas lease, recorded in the Office of the Recorder of Deeds in Doddridge County, West Virginia, in Book 329 at Page 645.

Nothing in this letter agreement will diminish any current or future rights of EQT in the Leasehold or other properties. Nothing in this filing should be construed as a waiver of any of Equitrans' rights, remedies, arguments or defenses and, in fact, Equitrans hereby reserves all of its rights, remedies, arguments, and defenses regarding this matter.

If the above meets with your agreement, please execute in the space provided below and return the signed letter to EQT Production, Attention Eric Mejia, 2400 Ansys Drive, Suite 200, Canonsburg, PA 15317. Should you have any questions, please contact Eric Mejia at 724-746-9367 or by email at emejia@eqt.com.

Sincerely,

EQT Production Company

Name: Eric Mejia, Regional Land Manager

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

06/07/2019

Agreed to and accepted this 30th day of January, 2019.

Equitrans, L.P.

By: *R Cordell Pierce*

Name: R. Cordell Pierce

Title: Attorney in Fact

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

RCP



06/07/2019

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

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

March 6, 2019

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

Re: 516238 (OXF43H30) Gas Well
Southwest District, Doddridge County

Dear Mr. Brewer,

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

Sincerely,

John Zavatchan
Landman - Permitting

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

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

Date of Notice Certification: 03/08/2019

API No. 47- 017 - 06746
Operator's Well No. 516238 (OXF43H30)
Well Pad Name: OXF43

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>517,916.8</u>
County:	<u>Doddridge</u>		Northing:	<u>4,334,220.6</u>
District:	<u>South West/Cove</u>	Public Road Access:		<u>Rt. 20</u>
Quadrangle:	<u>Oxford</u>	Generally used farm name:		<u>Cathy Jean Wetzel, et. al.</u>
Watershed:	<u>Middle Fork Hughes River</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input checked="" type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
---	---

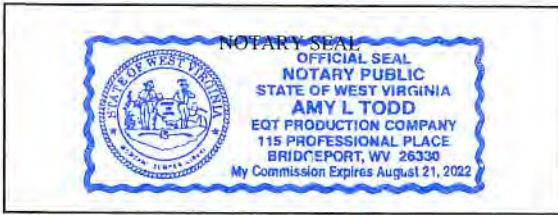
Required Attachments:
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement 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.

RECEIVED
Office of Oil and Gas
MAR 11 2019

Certification of Notice is hereby given:

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

Well Operator:	<u>EQT Production Company</u>	Address:	<u>2400 Ansys Drive, Suite 200</u>
By:	<u>John Zavatchan</u>		<u>Canonsburg, PA 15317</u>
Its:	<u>Landman - Permitting</u>	Facsimile:	<u>724-745-2418</u>
Telephone:	<u>724-746-9073</u>	Email:	<u>jzavatchan@eqt.com</u>



Subscribed and sworn before me this 8 day of March, 2019.
Amy L. Todd Notary Public
 My Commission Expires 8/21/2022

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.

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 03/08/2019 **Date Permit Application Filed:** 03/08/2019

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: See Attached
Address: _____

COAL OWNER OR LESSEE
Name: See Attached
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

RECEIVED
Office of Oil and Gas

*Please attach additional forms if necessary

MAR 11 2019

MAR 11 2019

06/07/2019

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured 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

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

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.**

06/07/2019

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED
Office of Oil and Gas


MAR 11 2019

WV Department of
Environmental Protection

06/07/2019

Notice is hereby given by:

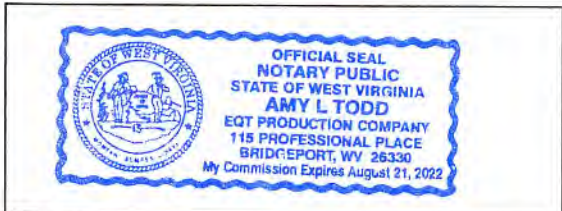
Well Operator: EQT Production Company
Telephone: 724-746-9073
Email: jzavalchan@eqt.com



Address: 2400 Ansys Drive, Suite 200
Canonsburg, PA 15317
Facsimile: 724-745-2418

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 8 day of March, 2019.

Amy L. Todd Notary Public

My Commission Expires 8/21/2022

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

06/07/2019

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

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

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

06/07/2019

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

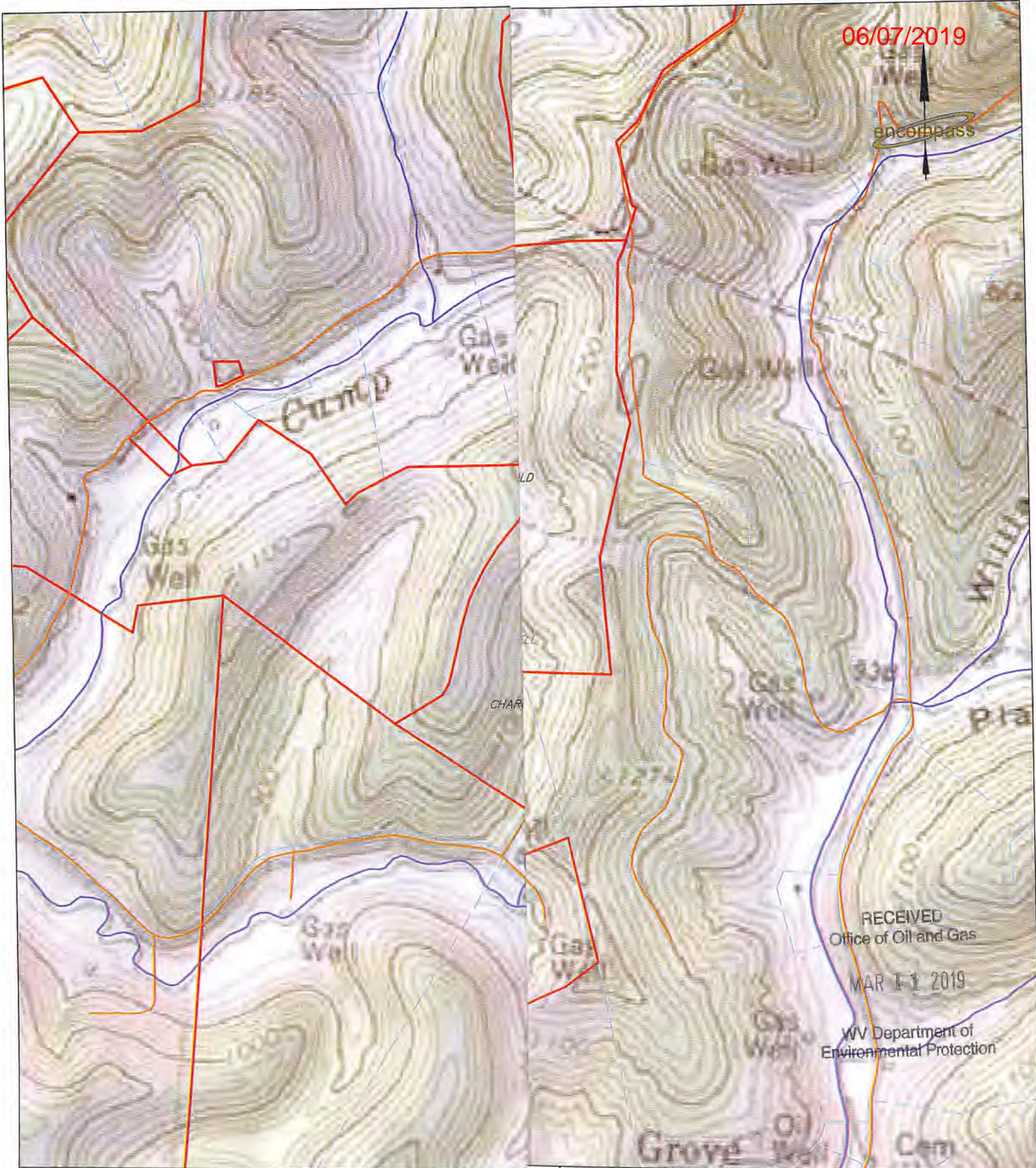
RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

06/07/2019

enccompass



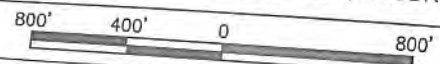
RECEIVED
Office of Oil and Gas
MAR 11 2019
WV Department of
Environmental Protection

SCALE: 1" = 800'	DRAWN BY: VER
DATE: 1/29/2019	REV DATE:

JOB NO.: 60635

EQT PRODUCTION COMPANY OXF43 PAD

RESIDENTIAL WATER SUPPLY MAP
SOUTHWEST TAX DISTRICT, DOODRIDGE COUNTY, WV



REV 1



Table 1 – Water Source Identification

EQT Well Pad Name: OXF 43 Submittal 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

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: 39.155761, 80.79576216 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Spring, no update from October 2018 visit

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-16-7 Distance from Gas Well (feet): 2237'

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 – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Spring, no update from October 2018 visit

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-16-7 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: 4/20/17 Owner home during survey (Yes/No): _____

Coordinates: 39.15149523, 80.7964674 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Spring, no update from October 2018 visit

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 07-16-7 Distance from Gas Well (feet): 2872'

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: 39.15136349, 80.79874149 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well, no update from October 2018 visit

- | |
|---|
| <input type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input checked="" type="checkbox"/> Unable to Contact
<small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

Site Number: 07-13-67 Distance from Gas Well (feet): 2616'

Surface Owner / Occupant: Charles R. Greathouse

Address: 71 Alum Fork Road, Camden, WV 26338 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (yes/no): _____

Coordinates: 39.15583001, 80.8012587 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Well

- | |
|--|
| <input type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact
<small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|--|

Site Number: 07-13-66 Distance from Gas Well (feet): 2321'

Surface Owner / Occupant: Evelyn G. Greathouse

Address: 147 Torrey Dr, Buckhannon, WV 26201 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (Yes/No): _____

Coordinates: 39.15729159, 80.80024123 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

- | |
|--|
| <input type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact
<small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|--|

Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 07-13-41 Distance from Gas Well (feet): 3179'

Surface Owner / Occupant: William A. Armentrout & Sandra Matheny

Address: 815 Mace St, Elk View, WV 25071 Phone #: _____

Field Located Date: 04/21/17 Owner home during survey (yes/no): _____

Coordinates: 39.16348426, 80.79976642 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well, no update from October 2018 visit

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-14-8 Distance from Gas Well (feet): 3288'

Surface Owner / Occupant: Gerald Riesenber, ET AL

Address: 290 Ogden Road, OH 45177 Phone #: _____

Field Located Date: 04/21/17 Owner home during survey (yes/no): _____

Coordinates: 39.16572147, 80.79158604 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Well, update - October 2018 - landowner response indicated parcel uninhabited and no wells

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 02-1-9 Distance from Gas Well (feet): 3498'

Surface Owner / Occupant: Wm & Randy Huff Decedents

Address: 826 Orange Ave, Coronado, CA 92118 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (Yes/No): _____

Coordinates: 39.15651686, 80.78094585 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 07-17-1 Distance from Gas Well (feet): 3371'

Surface Owner / Occupant: Randy E. Huff & William Lee

Address: 826 Orange Ave., Coronado, CA 92118 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (yes/no): _____

Coordinates: 39.14843745, 80.79014573 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-17-1 Distance from Gas Well (feet): 3177'

Surface Owner / Occupant: Randy E. Huff & William Lee

Address: 826 Orange Ave., Coronado, CA 92118 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (yes/no): _____

Coordinates: 39.14876464, 80.79325539 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Well

Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-16-6 Distance from Gas Well (feet): 3538'

Surface Owner / Occupant: Betty M. Ryan

Address: 4153 Grove Summers Rd, New Milton, WV 26411 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (Yes/No): _____

Coordinates: 39.15060189, 80.80151208 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection



Table 1 – Water Source Identification

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: Gerald Riesenberg, ET AL

Address: 290 Ogden Road, OH 45177 Phone #: _____

Field Located Date: _____ Owner home during survey (yes/no): _____

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: No features within 2600' buffer

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-10-2 Distance from Gas Well (feet): _____

Surface Owner / Occupant: I L (Ike) Morris

Address: Glenville, WV 26351 Phone #: _____

Field Located Date: _____ Owner home during survey (yes/no): _____

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: No features within 2600' buffer

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 02-1-1 Distance from Gas Well (feet): _____

Surface Owner / Occupant: Dale Arnold, ET AL

Address: 4825 Roop Rd, Mount Airy, MD 21771 Phone #: _____

Field Located Date: _____ Owner home during survey (Yes/No): _____

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: No features within 2600' buffer

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 02-4-1 Distance from Gas Well (feet): _____

Surface Owner / Occupant: Wilma Lee Leeson

Address: 2687 Millview Dr, Columbus, OH 43207 Phone #: _____

Field Located Date: _____ Owner home during survey (yes/no): _____

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: No features within 2600' buffer

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: _____ Distance from Gas Well (feet): _____

Surface Owner / Occupant: _____

Address: _____ Phone #: _____

Field Located Date: _____ Owner home during survey (yes/no): _____

Coordinates: _____ (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: _____

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: _____ Distance from Gas Well (feet): _____

Surface Owner / Occupant: _____

Address: _____ Phone #: _____

Field Located Date: _____ Owner home during survey (Yes/No): _____

Coordinates: _____ (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: _____

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

06/07/2019

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

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

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 03/08/2019 **Date Permit Application Filed:** 03/08/2019

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: See Attached List	Name: See Attached List
Address: _____	Address: _____
_____	_____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia	UTM NAD 83	Easting: 517,916.8
County: Doddridge		Northing: 4,334,220.6
District: Southwest / Cove	Public Road Access: Rt. 20	
Quadrangle: Oxford	Generally used farm name: Cathy Jean Wetzel, et. al.	
Watershed: Middle Fork Hughes River		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: EQT Production Company	Address: 2400 Ansys Drive, Suite 200
Telephone: 724-746-9073	Canonsburg, PA 15317
Email: jzavatchan@eqt.com	Facsimile: 724-745-2418

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas
MAR 11 2019
WV Department of
Environmental Protection

06/07/2019

Surface Owners:

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

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

WILLIAM LEE HUFF ✓
826 ORANGE AVENUE
CORONADO , CA 92118

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

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

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

WILLIAM LEE HUFF ✓
826 ORANGE AVENUE
CORONADO , CA 92118

I.L. MORRIS ✓
PO BOX 397
GLENVILLE, WV

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

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

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

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

06/07/2019



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

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

November 13, 2018

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	

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

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

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-4
File

Anticipated Frac Additives
Chemical Names and CAS numbers

06/07/2019

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

RECEIVED
Office of Oil and Gas

MAR 11 2019

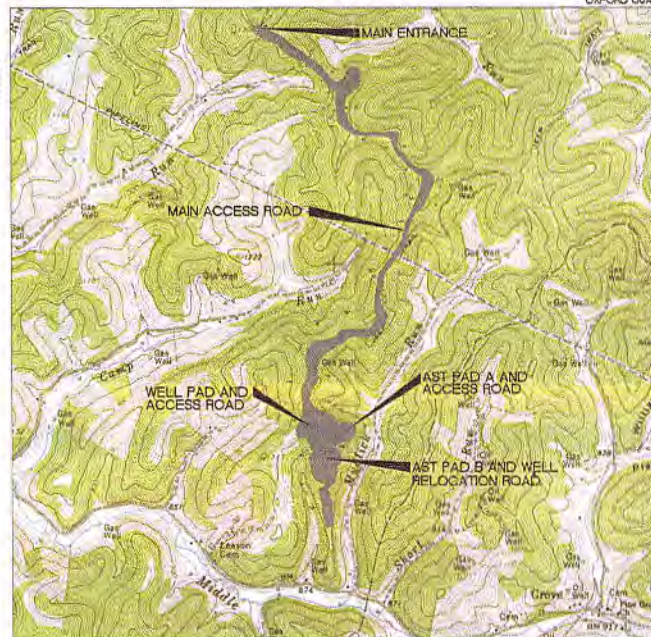
WV Department of
Environmental Protection

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, OXF43H33, 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



PROJECT INFORMATION

PROJECT NAME: 842 DDP-41 AS-BUILT

SURFACE OWNERS:

RONNY E. HUFF RECORDS TRUST B, ET AL
LOT #
APN 0-17-1
DB 247 PG 06

WETZEL, CATHY JEAN ET AL
APN 0-17-2
DB 277 PG 185

GREATHOUSE, CHARLES R & EVELYN G
APN 0-17-3
DB 322 PG 340

JOHNSON, L L
APN 0-17-4
DB 330 PG 347

CORLEAND, MATTHEW T
APN 0-17-10-1
DB 337 PG 6

OIL AND GAS ROYALTY OWNER:

TAMMISON HAWWELL TRUST
DISTRICT(S): SOUTHWEST COVE
COUNTY: DODDRIDGE COUNTY, WV
TOTAL PROPERTY AREA: 2089 ACRES

LOCATION COORDINATES

BY 45 SITE ENTRANCE
NORTHING: 76 18775 LONGITUDE: 80 79794 (MAD 83)
EASTING: 4 336 793 EASTING: 517 025 7 (UTM MAD 83 METERS)
BY 48 CENTER OF WELL PAD
NORTHING: 76 18775 LONGITUDE: 80 79399 (MAD 83)
EASTING: 4 336 233 EASTING: 517 021 4 (UTM MAD 83 METERS)

SITE DISTURBANCE COMPUTATIONS

MAIN ACCESS ROAD = 3K 506 ACRES
WELL PAD AND ACCESS ROAD = 11 164 ACRES
EAST PAD A AND ACCESS ROAD = 4 374 ACRES
EAST PAD B AND WELL RELOCATION ROAD = 1 016 ACRES

GENERAL DESCRIPTION

THE OXF 43 PAD AND EAST PADS ARE BEING CONSTRUCTED TO AND BY THE DEVELOPMENT OF INDIVIDUAL WELLS IN THREE GAS WELLS

**WVDEP OOG
ACCEPTED AS-BUILT**

WJL 1 / 29 / 2019

DISCLAIMER

1. THE CERTIFICATION OF THIS DRAWING APPLIES ONLY TO THE INFORMATION PROVIDED AS OBTAINED FROM THE FIELD DATA OBTAINED AT THE TIME OF THE FIELD SURVEY. ANY CHANGES TO THE FIELD DATA (AS NOTED ON THE DRAWING) ARE THE RESPONSIBILITY OF THE CLIENT AND NOT THE SURVEYOR.

MISS Liberty of West Virginia
1-800-245-4849
West Virginia State Law
(Section 20-2-2, Chapter 24-C)
Requires that you call two business days before you dig in the state
of West Virginia.
IT'S THE LAW!

RECEIVED
Office of Oil and Gas
MARCH 11 2019
WV Department of
Environmental Protection



LIST OF DRAWINGS

1. COVER SHEET
2. INDEX SHEET
3. OXF43 ACCESS ROAD
4. OXF43 ACCESS ROAD
5. OXF43 ACCESS ROAD
6. OXF43 ACCESS ROAD
7. OXF43 ACCESS ROAD
8. OXF43 ACCESS ROAD
9. OXF43 ACCESS ROAD, WELL PAD AND ACCESS ROAD AND PAD 'A' AND ACCESS ROAD
10. OXF43 WELL PAD AND ACCESS ROAD, PAD 'B' AND ACCESS ROAD AND PAD 'B' AND WELL RELOCATION ROAD
11. OXF43 PAD 'B' AND WELL RELOCATION ROAD
12. MAIN ROAD PROFILE
13. MAIN ROAD PROFILE
14. MAIN ROAD PROFILE
15. MAIN ROAD PROFILE AND PAD ACCESS ROAD PROFILE
16. PAD ACCESS ROAD PROFILE AND WELL RELOCATION ROAD PROFILE

LOD by property owner

Property Owner	PARCEL #	CONT. ACRES	WELLER DATE (ELECT)
Public E. Huff Records Trust B, et al	7-174	29.50	8-1-0
Wetzel, Cathy Jean, et al	W-17-1	5.72	7-8
Johnson, L L	W-17-2	11.60	8-1
Corleand, Matthew T	W-17-10-1	1.73	8-1
Total Area		47.55	8-1

LOD by project owner

Project Area	TIME PERIOD	WELLER DATE (ELECT)
Main Access Road (to 3K 506)	10-15-17	8-1
Well Pad and Access Road (to 11 164)	10-15-17	8-1
East Pad A and Access Road (to 4 374)	10-15-17	8-1
East Pad B and Well Relocation Road (to 1 016)	10-15-17	8-1
Well Pad and Access Road (to 11 164)	10-15-17	8-1
Well Relocation Road (to 1 016)	10-15-17	8-1
Total Area	10-15-17	8-1

LEGEND

- PROPERTY LINES
- LIMITS OF DISTURBANCE
- EX ROAD EDGE OF GRAVEL/ROCK
- EX ROAD CENTERLINE
- EX DIFFERENCE
- EX CURBLINE
- EX GARAGE
- NO FOOTPRINT
- EDGE OF GRAVEL PAD
- EDGE OF BERM
- FRANCE CONSTRUCTION FENCE
- 12 COMPOST FILTER ROCK
- 14 COMPOST FILTER ROCK
- 24 COMPOST FILTER ROCK
- TOP BERM
- GRAVEL
- WELL PAD
- ROCK CONSTRUCTION ENTRANCE
- ORIGINAL GROUND (if disturbed)
- AS BUILT IF FOOTPRINT
- AS-BUILT WELL LOCATIONS
- PROPOSED WELL LOCATIONS
- ADJACENT WELL LOCATIONS
- MATERIALS
- EX FENCE LINE
- EX GATE
- EX SIDEWALK
- EX PIPELINE MARKER
- EX OVERHEAD UTILITY
- EX POWER POLE
- EX EDDY WIRE
- EX GASLINE

THE DECISIONS ARE SUBJECT TO THE OOG PERMITTING PROCESS FOR THE

OXF43 AS-BUILT SITE PLAN

DATE: 10/16/17
BY: [Signature]
SCALE: 1" = 1000'
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
THIRD 1 OF 16
JOB NO: 842 DDP-41 AS-BUILT

July 2018
6/14/18



GRID NORTH AND SURVEYED ELEVATIONS SHOWN. DISTRICT BOUNDARIES ESTABLISHED BY SURVEY GRADE.

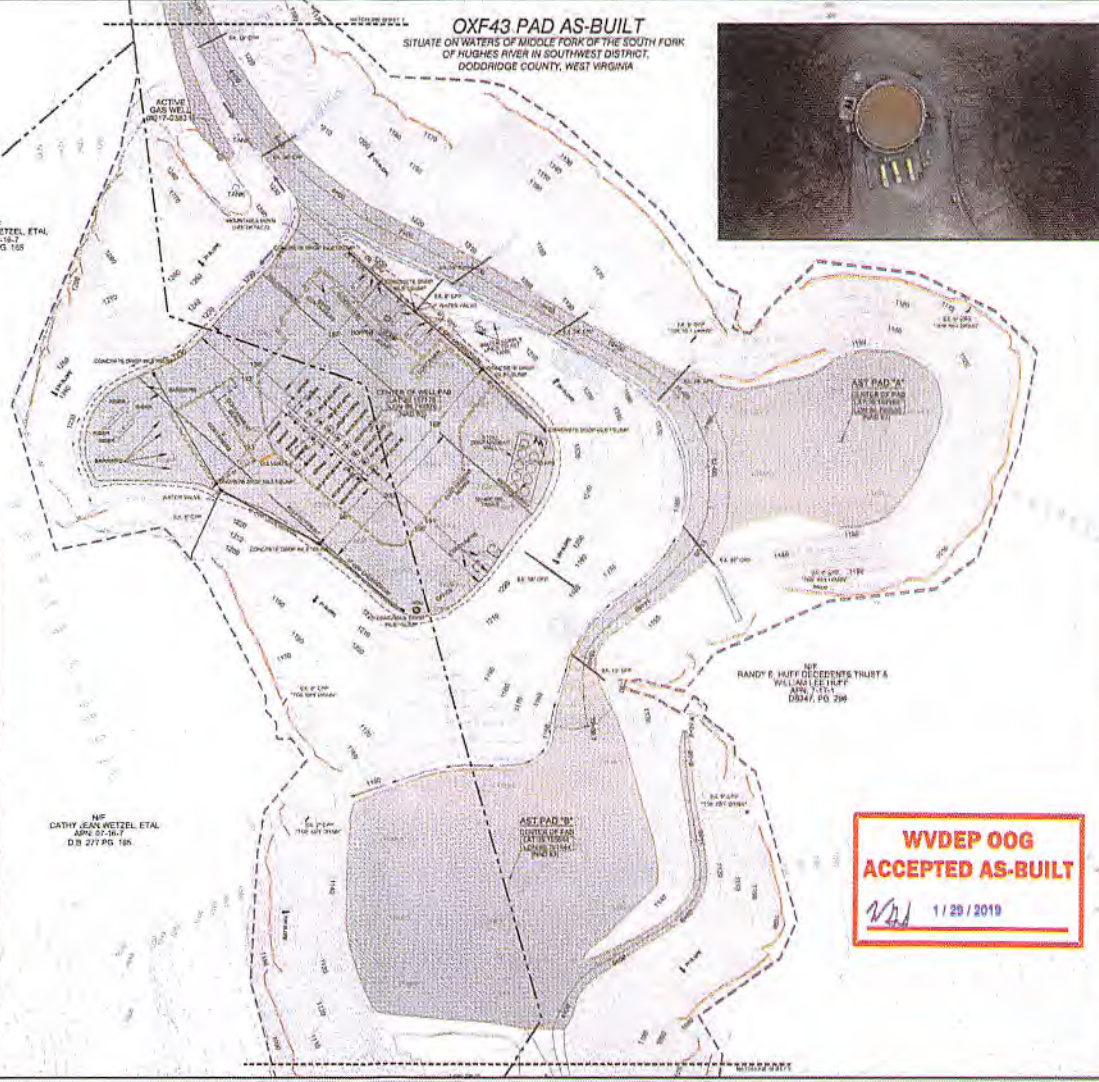
WELL ELEVATION DETAIL

OXF43H38	OXF43H29
OXF43H37	OXF43H28
OXF43H36	H27 (47-017-06747)
OXF43H35	H26 (47-017-06745)
OXF43H34	H25 (47-017-06744)
OXF43H33	H24 (47-017-06742)
H32 (47-017-06749)	H23 (47-017-06743)
H31 (47-017-06748)	H22 (47-017-06741)
H30 (47-017-06746)	H21 (47-017-06740)
	H20 (47-017-06739)

SCALE - 1"=20'



SCALE
1 INCH = 50 FEET



**WVDEP OOG
ACCEPTED AS-BUILT**

[Signature] 1/29/2019

DATE	04-03-2019
SCALE	1"=50'
DESIGNED BY	Y.W.
CHECKED BY	Y.W.
DATE	04-03-2019
SCALE	1"=50'
DESIGNED BY	Y.W.
CHECKED BY	Y.W.
DATE	04-03-2019
SCALE	1"=50'
DESIGNED BY	Y.W.
CHECKED BY	Y.W.

EQT
Environmental Quality Technology

SLS
Land & Energy Development

**OXF-43
PAD AS-BUILT**
THE PROPOSED AND ACCEPTED AS-BUILT WELL PAD IS SHOWN ON THIS PLAN.