



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Friday, September 22, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill


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

Re: Permit approval for OXF43H32
47-017-06849-00-00

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: OXF43H32
Farm Name: WETZEL, CATHY
U.S. WELL NUMBER: 47-017-06849-00-00
Horizontal 6A / New Drill
Date Issued: 9/22/2017

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PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

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 Southwest/Cove Oxford
Operator ID County District Quadrangle

2) Operator's Well Number: OXF43H32 Well Pad Name: OXF43

3) Farm Name/Surface Owner: Cathy Wetzel Public Road Access: Rt 20

4) Elevation, current ground: 1254' Elevation, proposed post-construction: 1229'

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

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No No

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7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6666' TVD, 57', 2951 PSI

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8) Proposed Total Vertical Depth: 6666'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19909

11) Proposed Horizontal Leg Length: 9681

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 found

15) Approximate Coal Seam Depths: 321

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

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

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

DAF
6/22/17

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	49 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	532	532	546 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2426	2426	960 ft^3 / CTS
Production	5 1/2	New	P-110	20	19909	19909	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination.	
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	.312	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	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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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 4528'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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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 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, 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 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): no additional

22) Area to be disturbed for well pad only, less access road (acres): no additional

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One 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. .25% Flake. Loss Circulation Material (LCM)
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries. 0.25% flake. Loss Circulation Material (LCM)
Production:
Lead (Type H 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 (Type 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.

DAC
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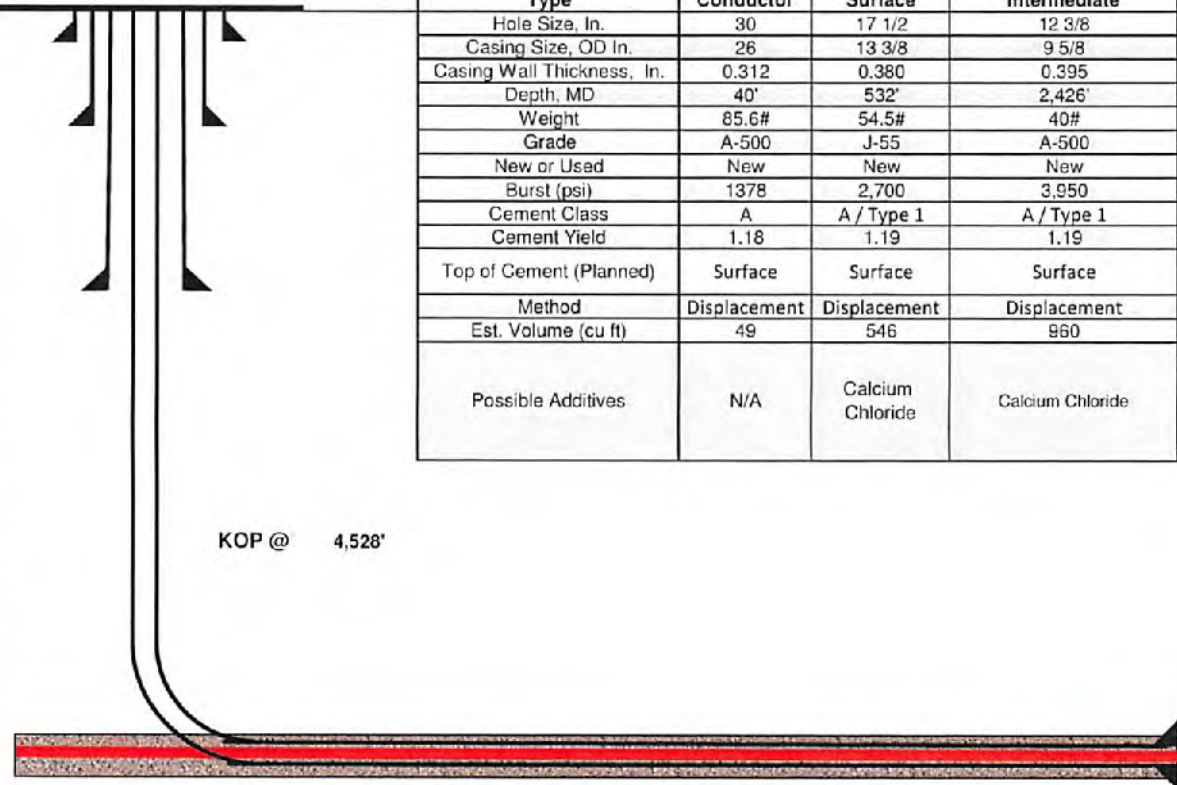
Well (OXF43H32)
 EQT Production
 Oxford Quad
 Doddridge County, WV

Azimuth 348
 Vertical Section 11402

Note: Diagram is not to scale

17-06849

Formations	Top TVD	Base TVD
Conductor	40	
Base Fresh Water	382	
Surface Casing	532	
Base Red Rock	1073	
Maxton	1088 - 1128	
Big Lime	1964 - 2032	
Big Injun	2076 - 2108	
Weir	2250 - 2376	
Intermediate Casing	2426	
Gantz	2450 - 2532	
Fifty foot	2532 - 2589	
Thirty foot	2630 - 2666	
Gordon	2672 - 2721	
Forth Sand	2772 - 2839	
Bayard	2952 - 3023	
Warren	3286 - 3352	
Spechley	3352 - 3857	
Balltown A	3857 - 4215	
Riley	4455 - 4831	
Benson	4831 - 4925	
Alexander	5133 - 5226	
Sonyea	6309 - 6459	
Middlesex	6459 - 6449	
Genesee	6449 - 6558	
Geneseo	6558 - 6600	
Tully	6600 - 6613	
Hamilton	6613 - 6631	
Marcellus	6631 - 6687	
Production Casing	19909	MD
Onondaga	6687	



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'	532'	2,426'	19,909'
Weight	85.6#	54.5#	40#	20#
Grade	A-500	J-55	A-500	P-110
New or Used	New	New	New	New
Burst (psi)	1378	2,700	3,950	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	546	860	4,512
Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Calcium Carbonate, Fluid Loss, Extender, Dispersant, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

Land curve @ 6,666' TVD 10,228' MD Est. TD @ 6,666' TVD 19,909' MD

9,681' Lateral

Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 4528'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
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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

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**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.

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CONCLUSIONS OF LAW

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

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

ORDER

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

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

5/22/17

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Page 1 of 2

09/22/2017

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 OXF43 pad: OXF43H32

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

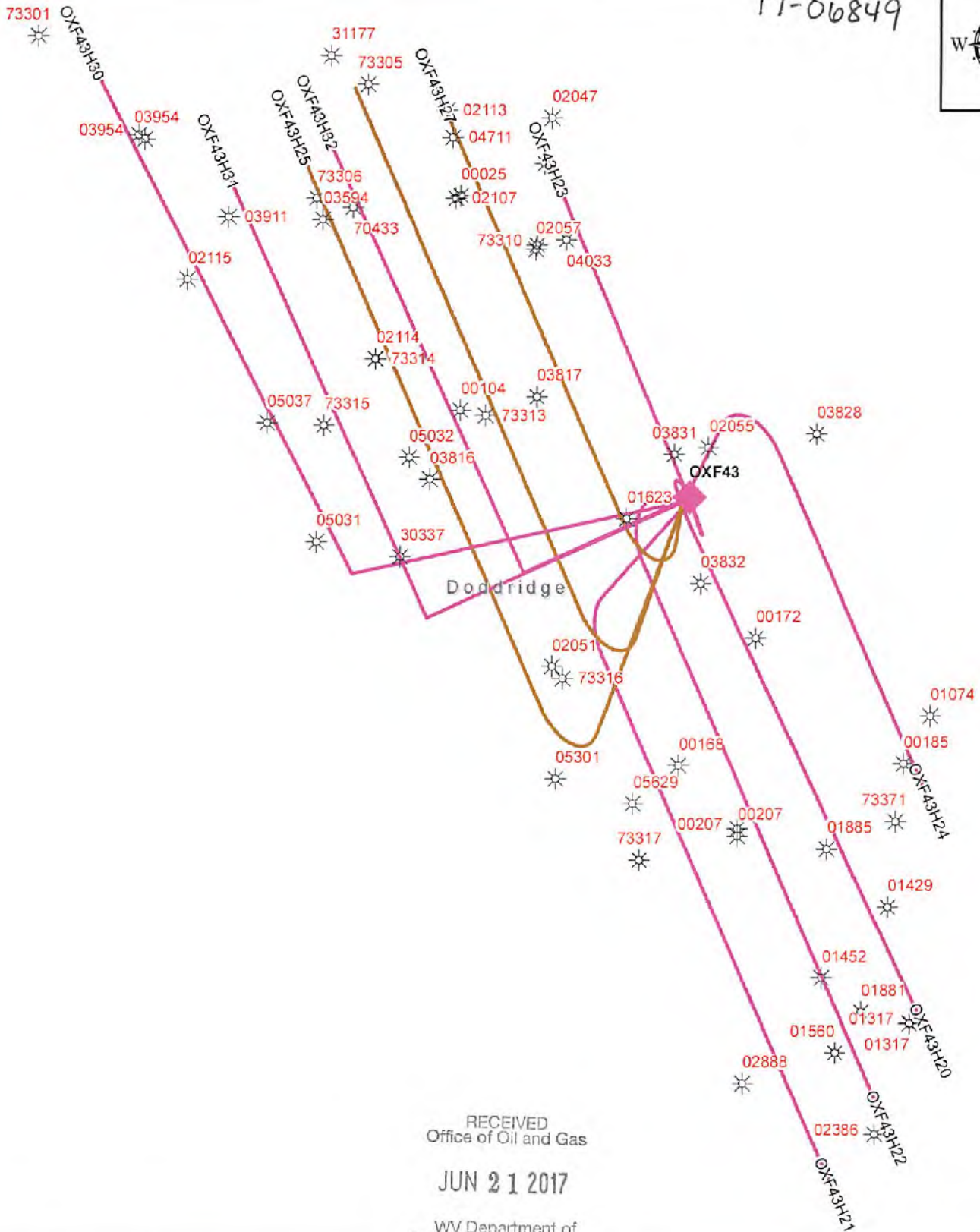
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

OXF43

Vertical Offsets and Foreign Laterals within 500'

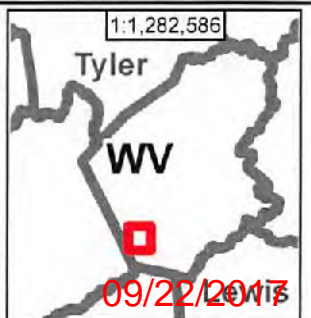
Legend

- OXF43 Vertical Offsets
- GENESSEE
- MARCELLUS
- MIDDLESEX
- POINT PLEASANT
- UTICA



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.



WellID	WellStatus	date	FmatTD	Permit	Operator	Longitude	Latitude
4701700025	UNK	8/13/1930		00025	PGH & WV GAS	-80.8015	39.1659
4701700104	GAS	9/21/1939		00104	EPC	-80.8015	39.1596
4701700168	GAS	10/15/1946		00168	P & M OIL	-80.7932	39.1491
4701700172	GAS	12/7/1946		00172	P & M OIL	-80.7903	39.1529
4701700185	GAS	2/11/1919		00185	EPC	-80.7847	39.1492
4701700207	GAS	10/5/1954		00207	P & M OIL	-80.7910	39.1473
4701701074	GAS	2/21/1964		01074	WILLIAMS OIL & GAS	-80.7837	39.1506
4701701317	OIL	2/27/1919		01317	EPC	-80.7845	39.1416
4701701429	O&G	3/31/1967		01429	EPC	-80.7853	39.1450
4701701452	O&G	6/29/1967		01452	EPC	-80.7878	39.1429
4701701560	O&G	10/8/1969		01560	EPC	-80.7873	39.1407
4701701623	O&G-P	8/8/1971		01623	WARREN DRILLING	-80.7952	39.1564
4701701881	O&G	5/27/1978		01881	EPC	-80.7863	39.1419
4701701885	OIL	5/23/1978		01885	EPC	-80.7876	39.1467
4701702047	GAS	5/23/1918		02047	EPC	-80.7981	39.1682
4701702051	GAS	7/5/1918		02051	EPC	-80.7980	39.1521
4701702055	GAS-P	1/1/1918		02055	EPC	-80.7921	39.1585
4701702057	P&A	12/13/1918		02057	EQUITRANS	-80.7986	39.1643
4701702107	GAS	7/14/1930		02107	EPC	-80.8017	39.1658
4701702113	P&A	5/5/1920		02113	EPC	-80.8020	39.1684
4701702114	P&A	10/15/1920		02114	EPC	-80.8047	39.1611
4701702115	GAS-P	10/14/1924		02115	EPC	-80.8118	39.1634
4701702386	GAS	2/19/1914		02386	EPC	-80.7858	39.1383
4701702888	DRY	2/8/1981		02888	DORAN & ASSOC	-80.7908	39.1398
4701703594	GAS	10/10/1987		03594	TERM ENERGY	-80.8067	39.1652
4701703816	GAS	9/20/1990		03816	ECA	-80.8027	39.1576
4701703817	GAS	6/21/1990		03817	ECA	-80.7986	39.1600
4701703828	GAS	9/28/1990		03828	ECA	-80.7880	39.1589
4701703831	GAS	9/18/1990		03831	ECA	-80.7934	39.1583
4701703832	GAS	9/20/1990		03832	ECA	-80.7924	39.1545
4701703911	LOC			03911	EASTERN AMERICAN	-80.8103	39.1653
4701703954	GAS	6/30/1992		03954	TERM ENERGY	-80.8137	39.1677
4701704033	GAS	9/15/1993		04033	TERM ENERGY	-80.7975	39.1646

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4701704711	GAS	1/20/2003	04711	KEY OIL	-80.8018	39.1676
4701705031	GAS	6/24/2004	05031	SPENCER ENTERPRISES	-80.8070	39.1557
4701705032	GAS	6/22/2004	05032	SPENCER ENTERPRISES	-80.8035	39.1582
4701705037	GAS	6/30/2004	05037	SPENCER ENTERPRISES	-80.8088	39.1592
4701705162	GAS	6/28/2006	05162	KEY OIL	-80.7983	39.1668
4701705301	GAS	2/2/2007	05301	EPC	-80.7979	39.1488
4701705629	GAS	9/4/2008	05629	EPC	-80.7950	39.1480
4701730337	GAS	6/24/1917	30337	PGH & WV GAS	-80.8038	39.1553
4701731177	GAS	5/17/1919	31177	EPC	-80.8064	39.1700
4701770433	LOC		70433	CARTER OIL&GAS	-80.8056	39.1656
4701773301	LOC		73301	HOPE NAT GAS	-80.8175	39.1706
4701773305	LOC		73305	HOPE NAT GAS	-80.8050	39.1692
4701773306	LOC		73306		-80.8070	39.1658
4701773310	LOC		73310		-80.7986	39.1644
4701773313	LOC		73313		-80.8006	39.1594
4701773314	LOC		73314	HOPE NAT GAS	-80.8047	39.1611
4701773315	LOC		73315		-80.8067	39.1592
4701773316	UNK		73316	UNKNOWN	-80.7976	39.1517
4701773317	LOC		73317	UNKNOWN	-80.7947	39.1464
4701773371	LOC		73371	HOPE NAT GAS	-80.7850	39.1475
47017039540001	GAS-WO	9/30/2002 WEIR /SD/		TERM ENERGY	-80.8135	39.1676
47017002070001	GAS	9/1/1962 BIG INJUN /SD/		MARSHALL OIL & GAS CORPORATION	-80.7910	39.1471
47017013170001	OIL	11/1/1965 POCONO		EQT PRODUCTION COMPANY	-80.7845	39.1416

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17-06849

DatumEleva	TD SS	TD
1012.0	-1490.0	2502.0
1095.0	-1397.0	2492.0
905.0	-1416.0	2321.0
955.0	-1262.0	2217.0
1103.0	-905.0	2008.0
883.0	-853.0	1736.0
949.0	-1510.0	2459.0
1067.0	-934.0	2001.0
883.0	-933.0	1816.0
1091.0	-936.0	2027.0
1022.0	-921.0	1943.0
1226.0	-1474.0	2700.0
918.0	-975.0	1893.0
863.0	-1030.0	1893.0
	-1907.0	1907.0
	-1801.0	1801.0
1097.0	-542.0	1639.0
985.0	-530.0	1515.0
1012.0	-814.0	1826.0
	-2485.0	2485.0
	-2400.0	2400.0
1180.0	-722.0	1902.0
1000.0	-1604.0	2604.0
1163.0	-1087.0	2250.0
958.0	-4073.0	5031.0
1065.0	-4170.0	5235.0
1210.0	-4110.0	5320.0
920.0	-4187.0	5107.0
1250.0	-4172.0	5422.0
1092.0	-4191.0	5283.0
864.0	-99999.0	100863.0
895.0	-4065.0	4960.0
970.0	-4030.0	5000.0

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1215.0	-4126.0	5341.0
	-2070.0	2070.0
	-2730.0	2730.0
	-1950.0	1950.0
1201.0	-1554.0	2755.0
986.0	-4416.0	5402.0
866.0	-5466.0	6332.0
1084.0	-874.0	1958.0
1064.0	-933.0	1997.0

905.0		4960.0
883.0		1736.0
1057.0		2001.0

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UWI	Name	Depth Top	Base Depth	Perf'd formations
47017047110000	LITTLE LIME	1834	1880	
47017047110000	BIG LIME	1880	1950	
47017047110000	BIG INJUN	1950	2180	
47017047110000	WEIR /SD/	2180	2380	
47017047110000	BEREA	2380	2600	
47017047110000	GORDON	2600	3254	
47017047110000	WARREN /SD/	3254	3304	
47017047110000	SPEECHLEY	3304	3588	
47017047110000	BALLTOWN /SD/	3588	4403	
47017047110000	RILEY /SD/	4403	4702	
47017047110000	RILEY 3	4702	4844	
47017047110000	BENSON /SD/	4844	4978	
47017047110000	ELK /SD/	4978	5087	
47017047110000	ALEXANDER	5087		
47017050370000	BIG LIME	1630		
47017050370000	BIG INJUN	1700		
47017018810000	MAXTON	1500	1547	
47017018810000	LITTLE LIME	1616	1663	
47017018810000	BIG LIME	1674	1734	
47017018810000	BIG INJUN /SD/	1734	1829	
47017035940000	BIG LIME	1671	1734	
47017035940000	BIG INJUN /SD/	1734	1801	
47017035940000	WEIR /SD/	1945	2065	
47017035940000	GORDON /SD/	2367	2373	
47017035940000	WARREN /SD/	3012	3146	
47017035940000	BALLTOWN /SD/	3714	3781	
47017035940000	RILEY /SD/	4116	4120	
47017035940000	BENSON /SD/	4515	4606	
47017035940000	ALEXANDER	4799		
47017039540000	BIG LIME	1596	1671	
47017039540000	BIG INJUN /SD/	1671	1745	
47017039540000	WEIR /SD/	1892	2016	
47017039540000	BEREA	2090	2093	
47017039540000	GORDON /SD/	2320	2323	
47017039540000	WARREN /SD/	2968	3081	
47017039540000	SPEECHLEY	3098	3725	
47017039540000	BALLTOWN /SD/	3725	3830	
47017039540000	BRADFORD /SD/	4119	4189	
47017039540000	BENSON /SD/	4564	4572	
47017039540000	LEOPOLD	4688	4696	
47017039540000	ALEXANDER	4810	4910	
47017040330000	BIG LIME	1658	1726	
47017040330000	BIG INJUN /SD/	1726	1804	
47017040330000	WEIR /SD/	1942	2062	
47017040330000	BEREA	2142	2148	
47017040330000	GORDON /SD/	2295	2379	

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47017040330000	WARREN /SD/	3016	3122
47017040330000	SPEECHLEY	3136	3746
47017040330000	BALLTOWN /SD/	3746	3882
47017040330000	BRADFORD /SD/	4166	4234
47017040330000	BENSON /SD/	4520	4622
47017040330000	LEOPOLD	4734	4744
47017040330000	ALEXANDER	4860	4960
47017021140000	COW RUN 2 /SD/	935	1020
47017021140000	SALT SD 2	1344	1400
47017021140000	SALT SD 3	1505	
47017021140000	MAXON/SD/	1580	1614
47017021140000	BIG LIME	1660	
47017021140000	BIG INJUN	1730	1810
47017021140000	GANTZ /SD/	1939	2035
47017021140000	GORDON STRAY /SD/	2340	2348
47017021140000	GORDON /SD/	2367	
47017038160000	BIG LIME	1736	1817
47017038160000	BIG INJUN /SD/	1822	1865
47017038160000	WEIR /SD/	2005	2175
47017038160000	BENSON /SD/	4691	4696
47017038280000	LITTLE LIME	1596	1611
47017038280000	BIG LIME	1650	1732
47017038280000	BIG INJUN /SD/	1732	1786
47017038280000	WEIR /SD/	1930	2020
47017038280000	BEREA	2116	2122
47017038280000	WARREN /SD/	2978	3008
47017038280000	RILEY /SD/	4138	4490
47017038280000	BENSON /SD/	4566	4570
47017038280000	ALEXANDER	4820	
47017038310000	LITTLE LIME	1906	1918
47017038310000	BIG LIME	1954	2022
47017038310000	BIG INJUN /SD/	2022	2096
47017038310000	WEIR /SD/	2230	2330
47017038310000	BEREA	2429	2435
47017038310000	WARREN /SD/	3295	3326
47017038310000	RILEY /SD/	4460	4826
47017038310000	BENSON /SD/	4890	4895
47017038310000	ALEXANDER	5130	5238
47017050310000	BIG LIME	1668	
47017050310000	BIG INJUN	1732	
47017038320000	BIG LIME	1822	1892
47017038320000	BIG INJUN /SD/	1892	1968
47017038320000	WEIR /SD/	2098	2218
47017038320000	BEREA	2298	2304
47017038320000	WARREN /SD/	3148	3192
47017038320000	RILEY /SD/	4328	4710
47017038320000	BENSON /SD/	4759	4764

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47017038320000	ALEXANDER	4998	5104
47017050320000	BIG LIME	1890	
47017050320000	BIG INJUN	1953	
47017050320000	GORDON	2580	
47017016230000	SALT SD 2	1610	1680
47017016230000	MAXTON	1750	1812
47017016230000	LITTLE LIME	1900	1939
47017016230000	BIG LIME	1939	2010
47017016230000	BIG INJUN /SD/	2010	2085
47017016230000	GANTZ /SD/	2220	2395
47017016230000	GORDON /SD/	2640	2646
47017021130000	COW RUN 1 /SD/	922	950
47017021130000	COW RUN 2 /SD/	998	1060
47017021130000	SALT SD 1	1240	1262
47017021130000	SALT SD 2	1380	1416
47017021130000	SALT SD 3	1460	1509
47017021130000	MAXON/SD/	1575	1700
47017021130000	LITTLE LIME	1700	1758
47017021130000	PENCIL CAVE	1758	1763
47017021130000	BIG LIME	1763	1828
47017021130000	BIG INJUN	1828	1902
47017021130000	GANTZ /SD/	2065	2161
47017021130000	FIFTY FOOT SD	2416	2421
47017021130000	GORDON STRAY /SD/	2440	2450
47017021130000	GORDON	2470	
47017051620000	LITTLE LIME	1840	
47017051620000	BIG LIME	1877	
47017051620000	KEENER /SD/	1939	
47017051620000	BIG INJUN /SD/	1971	
47017051620000	WEIR /SD/	2158	
47017051620000	BEREA	2358	
47017051620000	GORDON /SD/	2540	
47017053010000	MAXTON UPPER/SD/	1510	
47017053010000	BIG INJUN	1747	
47017053010000	WEIR UPPER /SD/	1950	
47017053010000	GORDON	2341	
47017053010000	FIFTH SAND	2626	
47017053010000	WARREN /SD/	3002	
47017053010000	SPEECHLEY	3061	
47017053010000	BALLTOWN	3768	
47017053010000	RILEY /SD/	4189	
47017053010000	BENSON /SD/	4602	
47017053010000	ALEXANDER	4858	
47017056290000	BIG LIME	1574	
47017056290000	BIG INJUN	1686	1717
47017056290000	WEIR /SD/	1851	1970
47017056290000	GANTZ /SD/	2062	2145

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17-06849

47017056290000	GORDON	2284	2385
47017056290000	FIFTH SAND	2536	2564
47017056290000	WARREN /SD/	2898	
47017056290000	SPEECHLEY	2961	
47017056290000	BALLTOWN	3468	3837
47017056290000	RILEY /SD/	4081	
47017056290000	BENSON /SD/	4500	4544
47017056290000	ALEXANDER	4750	4846
47017056290000	GENESEE /SH/	6064	
47017056290000	GENESE0 /SH/	6172	
47017056290000	TULLY /LM/	6215	
47017056290000	MARCELLUS /SH/	6245	
47017056290000	ONONDAGA /LM/	6306	
47017028880000	BIG LIME	1915	1970
47017028880000	BIG INJUN /SD/	1970	2052
47017038170000	LITTLE LIME	1848	1860
47017038170000	BIG LIME	1900	1960
47017038170000	BIG INJUN /SD/	1960	2033
47017038170000	WEIR /SD/	2156	2338
47017038170000	BEREA	2368	2372
47017038170000	WARREN /SD/	3216	3265
47017038170000	RILEY /SD/	4389	
47017038170000	BENSON /SD/	4825	4857
47017038170000	ALEXANDER	5066	5172

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WW-9
(4/16)

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API Number 47 - 017 - 06849
Operator's Well No. OXF43H32

WV Department of
Environmental Protection

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: _____

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

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 *Victoria J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 16 day of June, 2017

Rebecca L. Wanstreet Notary Public

My commission expires 4-7-2020



WW-9 Attachment

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

- Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.

Additives to be used in drilling medium?

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

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47-017-02849

Operator's Well No. OXF43H32

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed 66.70 Prevegetation pH 6.2

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

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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: *[Signature]*

Comments: _____

Title: Oil & Gas Inspector

Date: 6/24/17

Field Reviewed? Yes No

EQT Production Water plan
Offsite disposals for Marcellus wells

17-06849

CWS TRUCKING INC.

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

BROAD STREET ENERGY LLC

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRIAD ENERGY

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

KING EXCAVATING CO.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

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Site Specific Safety Plan

EQT OXF43 Pad

Oxford Quadrant

West Union

Doddridge County, WV

For Wells:

OXF43H32 _____

Date Prepared:

November 10, 2016

[Signature]
EQT Production
Permitting Supervisor
Title
6-16-17
Date

[Signature]
WV Oil and Gas Inspector
Oil & Gas Inspector
Title
6/22/17
Date

09/22/2017

OXF43H32
OXF43
EQT Production Company

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.

NO.	ADJACENT OWNER	NO.	SURFACE OWNER
5	RANDY E HUFF DECEDENT'S TRUST B, ET AL	1	CHARLES R GREATHOUSE
14	BETTY M. RYAN	2	EVELYN G GREATHOUSE
19	RANDALL L GRIMM	3	CATHY JEAN WETZEL ETAL
37	CAROLYN S GASTON, ET AL	17	DARLENE K PRUNTY
39	CAROLYN S GASTON, ET AL	18	EDRA LOUISE GRIMM
43	JERRI KATHRYN FOWLER	40	JOAN H CASSIDY TRUST
46	JOHN H CASSIDY TRUST	41	KATHRYN GOODWIN, ET AL
		42	JERRI KATHRYN FOWLER
		44	JOHN W & MARGARET L JANSCHER
		45	BRADLEY A COPELAND, SR.

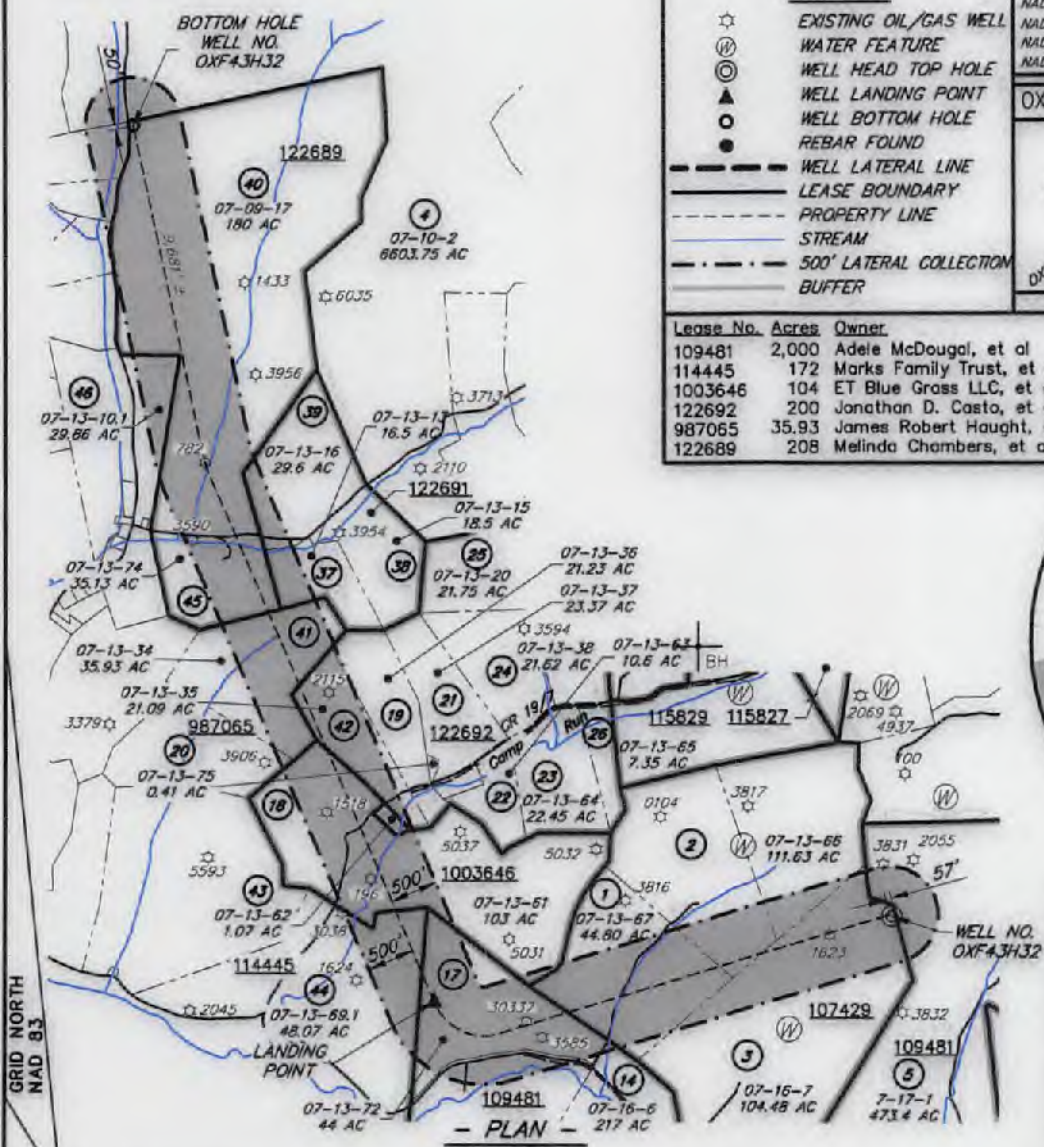
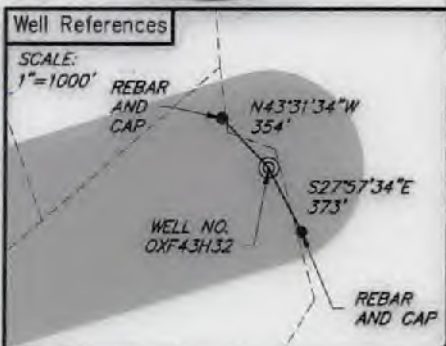
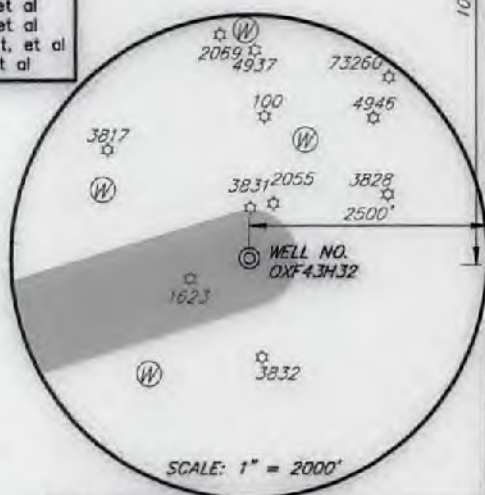
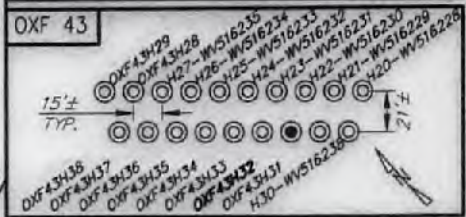
OXF43H32 Well Point Coordinates

Top Hole Coordinates		
NAD 27 S.P.C. (FL)	N: 241,922.437	E: 1,633,379.829
NAD 27 GEO	LAT: 39.156976	LONG: 80.792883
NAD 83 UTM 17N (M)	N 4,334,226.6	E: 517,909.9
NAD 83 S.P.C. (FL)	N 241,937.8	E: 1,601,939.0
Landing Point Coordinates		
NAD 27 S.P.C. (FL)	N: 241,014.117	E: 1,628,608.738
NAD 27 GEO	LAT: 39.154293	LONG: 80.809659
NAD 83 UTM 17N (M)	N 4,333,925.6	E: 516,461.0
NAD 83 S.P.C. (FL)	N 241,049.3	E: 1,597,167.9
Bottom Hole Coordinates		
NAD 27 S.P.C. (FL)	N: 250,119.426	E: 1,625,454.117
NAD 27 GEO	LAT: 39.178163	LONG: 80.821254
NAD 83 UTM 17N (M)	N 4,336,683.5	E: 515,453.7
NAD 83 S.P.C. (FL)	N 250,154.5	E: 1,594,013.2

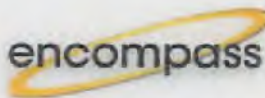
LEGEND

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

Lease No.	Acres	Owner
109481	2,000	Adele McDougal, et al
114445	172	Marks Family Trust, et al
1003646	104	ET Blue Grass LLC, et al
122692	200	Jonathan D. Casto, et al
987065	35.93	James Robert Haught, et al
122689	208	Melinda Chambers, et al

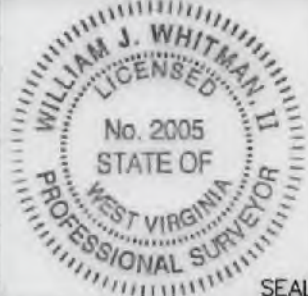


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



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: JUNE 15, 20 17
 OPERATORS WELL NO. OXF43H32
 API WELL NO. H6A
 STATE COUNTY PERMIT: 47 017 06849

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION, ELEVATION: 1254' (Ground) 1229' (Prop.) WATERSHED: Middle Fork Hughes River QUADRANGLE: OXFORD 09/22/2017
 DISTRICT: SOUTH WEST / COVE COUNTY: DODDRIDGE
 SURFACE OWNER: Cathy Wetzel 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: Rex. C. Ray
 ADDRESS: 115 Professional Pl., P.O. Box 280 ADDRESS: 115 Professional Pl., P.O. Box 280
 Bridgeport, WV 26330 Bridgeport, WV 26330

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

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

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

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

see attached

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WV Department of
Environmental Protection

**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: Victoria J Roark
 Its: Permitting Supervisor

WW-6A1 attachment

Operator's Well No.

OXF43H32

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
107429	<u>Franklin Maxwell Heirs L.P. (current royalty owner)</u> W. Brent Maxwell, et al (original lessor) Fisher Oil Co. The Philadelphia Oil Co. The Philadelphia Co. of West Virginia Equitable Gas Co. Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company	Fisher Oil Co. The Philadelphia Oil Co. The Philadelphia Co. of West Virginia Equitable Gas Co. Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company EQT Production Co.	**	LB23/337 LB24/64 DB87/90 LB95/88 LB154/475 LB 192/19 CB281/346 CB281/346
109481	<u>Adele McDougal et al (current royalty owner)</u> Jackson Leeson, et al (original lessor) The Philadelphia Co. of West Virginia Pittsburgh & West Virginia Gas Co. Equitable Gas Company Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company	The Philadelphia Co. of West Virginia Pittsburgh & West Virginia Gas Co. Equitable Gas Company Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company EQT Production Company	**	LB21/76 DB87/90 DB121/303 LB154/475 LB192/19 CB281/346 CB281/346
114445	<u>Marks Family Trust, et al (current royalty owner)</u> W.T. Snider, et ux (original lessor) The Philadelphia Co. of West Virginia Pittsburgh & West Virginia Gas Co. Equitable Gas Company Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company	The Philadelphia Co. of West Virginia Pittsburgh & West Virginia Gas Co. Equitable Gas Company Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company EQT Production Company	**	LB32/446 DB87/90 DB121/303 LB154/475 LB192/19 CB281/346 CB281/346
1003646	<u>ET Blue Grass LLC, et al (current royalty owner)</u> Cyril Scott, et ux, et al (original lessor) Hugh Spencer J & J Enterprises Eastern American Energy Corp. Energy Corporation of America Antero Resources Corp.	Hugh Spencer J & J Enterprises Eastern American Energy Corp. Energy Corporation of America Antero Resources Corp. EQT Production Co.	**	LB91/637 LB111/390 LB211/137 LB240/498 LB272/339 DB330/617
122692	<u>Jonathan D. Casto, et al (current royalty owner)</u> R. J. Gaston, et al (original lessor) Carter Oil Co. Hope Natural Gas Co. Pittsburgh & WV Gas Co. Equitable Gas Co. Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company	Carter Oil Co. Hope Natural Gas Co. Pittsburgh & WV Gas Co. Equitable Gas Co. Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company EQT Production Co.	**	LB36/362 LB42/410 LB53/82 DB121/303 LB154/475 LB192/19 CB281/346 CB281/346
987065	<u>James Robert Haught, et al (current royalty owner)</u> James Robert Haught	EQT Production Company	**	317/617
122689	<u>Melinda Chambers, et al (current royalty owner)</u> M.L. Haught, et ux (original lessor) Hope Natural Gas Company Equitable Gas Company Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company	Hope Natural Gas Company Equitable Gas Company Equitrans, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company EQT Production Co.	**	35/10 157/349 DB154/475 LB192/19 CB281/346 CB281/346

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

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Environmental Protection

17-06849



June 14, 2017

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

Re: OXF43 well pad, well number OXF43H32
Southwest/Cove District, Doddridge County

Dear Mr. Martin,

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark', is written over the word 'Sincerely,'.

Vicki Roark
Permitting Supervisor-WV

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

Date of Notice Certification: 6/20/17

API No. 47- 17 - 06849
Operator's Well No. OXF43H32
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>WV</u>	UTM NAD 83	Easting: <u>517909.91</u>
County: <u>Doddridge</u>		Northing: <u>4334226.638</u>
District: <u>Southwest/Cove</u>	Public Road Access: <u>RT20</u>	
Quadrangle: <u>Oxford</u>	Generally used farm name: <u>Cathy Wetzel</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 style="padding-left: 100px;"><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 type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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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.

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WV Department of
Environmental Protection

Certification of Notice is hereby given:

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

Well Operator: EQT Production Company
By: Victoria J Roark
Its: Permitting Supervisor
Telephone: 304-848-0076

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041
Email: vroark@eqt.com



Subscribed and sworn before me this 16 day of June 2017.
Rebecca L Wanstreet Notary Public
My Commission Expires 4-7-2020

Oil and Gas Privacy Notice:

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

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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: 6/20/17 Date Permit Application Filed: 6/20/17
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: _____

COAL OWNER OR LESSEE
Name: See Attached
Address: _____
 COAL OPERATOR
Name: _____
Address: _____

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

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

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

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

*Please attach additional forms if necessary

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17-06849

Surface Owners (road or other disturbance):

The Randy E Huff Decedent's Trust B
C/O Joye E Huff Trustee
826 Orange Ave
Coronado CA 92118

William Lee Huff
1108 W County Road 130
Midland TX 79706

I.L. Morris
PO Box 397
Glenville WV 26351

Mathew Copeland
3 Earl Dr
Cape May NJ 08204

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

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09/22/2017

17-06849

Surface Owners (Pits or impoundments):

The Randy E Huff Decedent's Trust B
C/O Joye E Huff Trustee
826 Orange Ave
Coronado CA 92118

William Lee Huff
1108 W County Road 130
Midland TX 79706

7016 3560 0000 4644 1025

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CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: Randy E Huff Decedent's Trust B
C/O Joye E Huff
826 Orange Ave
Coronado CA 92118

Street: _____
City, St: _____

Postmark: BRIDGEPORT MPO Here JUN 20 2017 26330-USPS

OXF43H32 permit app

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 3560 0000 4644 1032

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Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Sent To: William Lee Huff
1108 W County Rd 130
Midland TX 79706

Street: _____
City, St: _____

Postmark: BRIDGEPORT MPO Here JUN 20 2017 26330-USPS

OXF43H32 permit app

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Coal Owner:

Franklin Maxwell Heirs Limited Partnership
P.O. Box 2395
Buckhannon, WV 26201

7016 3560 0000 4644 1087

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Certified Mail Fee	\$	
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage		
Total P	\$	
Sent To: Franklin Maxwell Heirs		
LTD Partnership #1		
P.O. Box 2395		
Buckhannon WV 26201		
City, S		

Postmark: BRIDGEPORT, WV JUN 20 2017

26201-1150

OXF43H32 permit app

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for instructions

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Owners of Water Wells

Cathy Jean Wetzel et al
322 Zacks Run Road
Mount Clare WV 26408

The Randy E Huff Decedent's Trust B
C/O Joye E Huff Trustee
826 Orange Ave
Coronado CA 92118

7016 3560 0000 4644 0974

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Certified Mail Fee
\$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/>	Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/>	Return Receipt (electronic)	\$ _____
<input type="checkbox"/>	Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/>	Adult Signature Required	\$ _____
<input type="checkbox"/>	Adult Signature Restricted Delivery	\$ _____

Postage
\$ _____

Total \$ _____

Sent To: Cathy Jean Wetzel et al
322 Zacks Run Road
Mount Clare WV 26408

Street: _____
City, State: _____

Postmark: BRIDGEPORT MPO JUN 20 2017

OXF43H32 permit app

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 3560 0000 4644 1025

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OFFICIAL USE

Certified Mail Fee
\$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/>	Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/>	Return Receipt (electronic)	\$ _____
<input type="checkbox"/>	Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/>	Adult Signature Required	\$ _____
<input type="checkbox"/>	Adult Signature Restricted Delivery	\$ _____

Postage
\$ _____

Total \$ _____

Sent To: Randy E Huff Decedent's Trust B
C/O Joye E Huff
826 Orange Ave
Coronado CA 92118

Street: _____
City, State: _____

Postmark: BRIDGEPORT MPO JUN 20 2017
Here
26330-USPS

OXF43H32 permit app

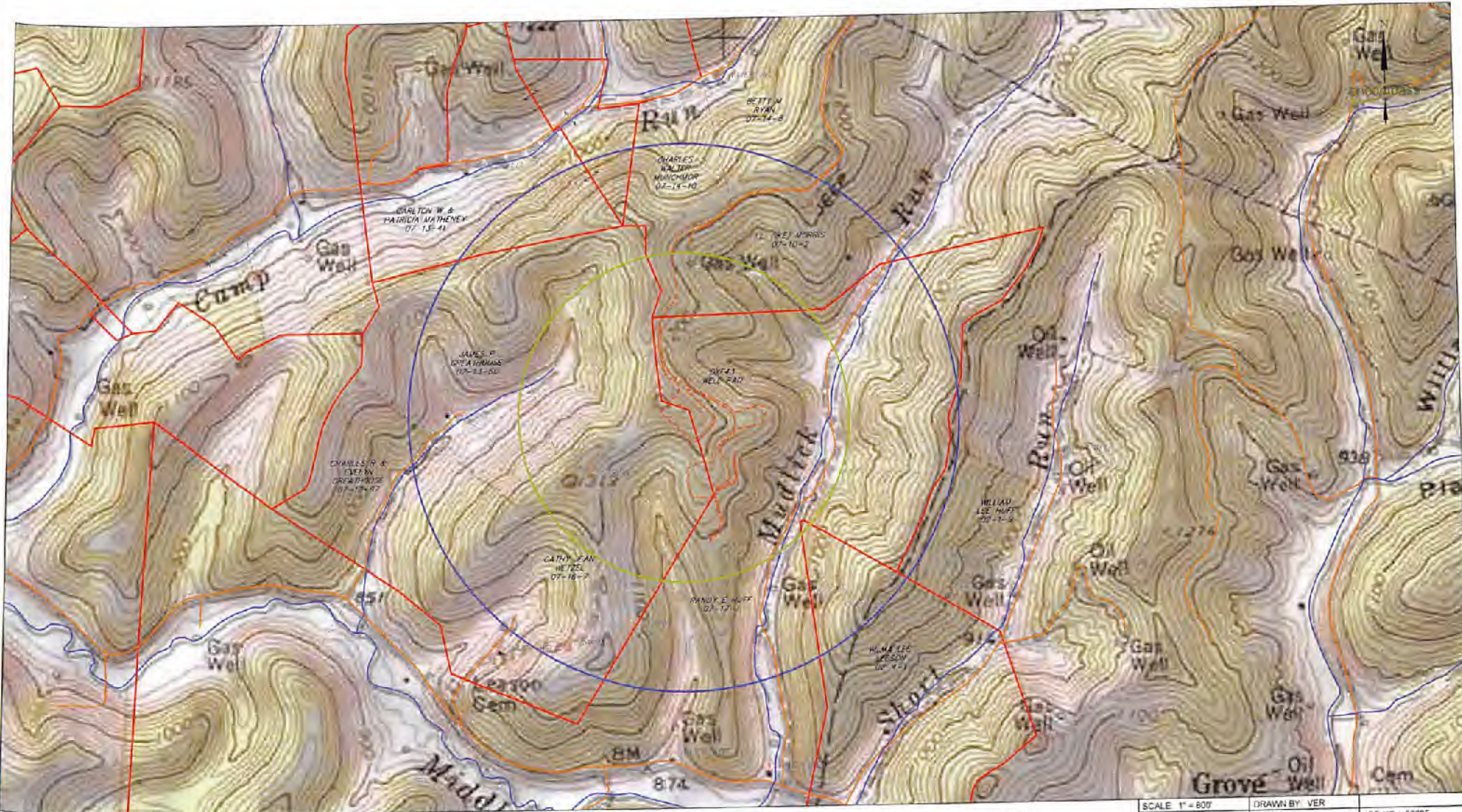
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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

SCALE 1" = 800'
DATE: 05/15/2017

DRAWN BY: VER
REV DATE: _____
JOB NO. 60835

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



REV D
SHEET: 1 OF 1

67,800-1

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 4/20/17 **Date Permit Application Filed:** 6/20/17

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

HAND DELIVERY **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

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

Notice is hereby provided to the SURFACE OWNER(s):

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

Notice is hereby given:

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

State: <u>WV</u>	UTM NAD 83 Easting: <u>517909.91</u>
County: <u>Doddridge</u>	Northing: <u>4334226.638</u>
District: <u>Southwest/Cove</u>	Public Road Access: <u>RT20</u>
Quadrangle: <u>Oxford</u>	Generally used farm name: <u>Cathy Wetzel</u>
Watershed: <u>Middle Fork Hughes River</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: <u>EQT Production Company</u>	Authorized Representative: <u>Victoria Roark</u>
Address: <u>115 Professional Place PO Box 280</u>	Address: <u>115 Professional Place PO Box 280</u>
<u>Bridgeport WV 26330</u>	<u>Bridgeport WV 26330</u>
Telephone: <u>304-848-0076</u>	Telephone: <u>304-848-0076</u>
Email: <u>vroark@eqt.com</u>	Email: <u>vroark@eqt.com</u>
Facsimile: <u>304-848-0041</u>	Facsimile: <u>304-848-0041</u>

Oil and Gas Privacy Notice:

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

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Surface Owners:

Cathy Jean Wetzel et al
322 Zacks Run Road
Mount Clare WV 26408

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Environmental Protection

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Surface Owners (road or other disturbance):

The Randy E Huff Decedent's Trust B
C/O Joye E Huff Trustee
826 Orange Ave
Coronado CA 92118

William Lee Huff
1108 W County Road 130
Midland TX 79706

I.L. Morris
PO Box 397
Glenville WV 26351

Mathew Copeland
3 Earl Dr
Cape May NJ 08204

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

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Environmental Protection
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Surface Owners (Pits or impoundments):

The Randy E Huff Decedent's Trust B
C/O Joye E Huff Trustee
826 Orange Ave
Coronado CA 92118

William Lee Huff
1108 W County Road 130
Midland TX 79706

✓

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Environmental Protection

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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: 4/20/17 Date Permit Application Filed: 4/20/17

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED HAND 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 Name: see attached
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: <u>WV</u>	UTM NAD 83	Easting: <u>517909.91</u>
County: <u>Doddridge</u>		Northing: <u>4334226.638</u>
District: <u>Southwest/Cove</u>	Public Road Access: <u>RT20</u>	
Quadrangle: <u>Oxford</u>	Generally used farm name: <u>Cathy Wetzel</u>	
Watershed: <u>Middle Fork Hughes River</u>		

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: <u>EQT Production Company</u>	Address: <u>115 Professional Place PO Box 280</u>
Telephone: <u>304-848-0076</u>	<u>Bridgeport WV 26330</u>
Email: <u>vroark@eqt.com</u>	Facsimile: <u>304-848-0041</u>

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas

JUN 21 2017

17-06849

Surface Owners:

Cathy Jean Wetzel et al
322 Zacks Run Road
Mount Clare WV 26408

7016 3560 0000 4644 0974

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee	\$	
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	
Total	\$	

Total Cathy Jean Wetzel et al
Sent 322 Zacks Run Road
Street Mount Clare WV 26408
City, State

Postmark: BRIDGEPORT MD JUN 20 2017

OXF43H3Z permit 28430

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



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Office of Oil and Gas

JUN 21 2017

WV Department of
Environmental Protection

09/22/2017

Surface Owners (road or other disturbance):

The Randy E Huff Decedent's Trust B
C/O Joye E Huff Trustee
826 Orange Ave
Coronado CA 92118

William Lee Huff
1108 W County Road 130
Midland TX 79706

I.L. Morris
PO Box 397
Glenville WV 26351

Mathew Copeland
3 Earl Dr
Cape May NJ 08204

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

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JUN 21 2017

WV Department of
Environmental Protection

09/22/2017

17-06849

Surface Owners (Pits or impoundments):

The Randy E Huff Decedent's Trust B
C/O Joye E Huff Trustee
826 Orange Ave
Coronado CA 92118

William Lee Huff
1108 W County Road 130
Midland TX 79706

7016 3560 0000 4644 1025
PTOL

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OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$

Total \$ Randy E Huff Decedent's Trust B

Sent To \$ C/O Joye E Huff

Street 826 Orange Ave

City, St Coronado CA 92118

Postmark Here
BRIDGEPORT MO
JUN 20 2017
26330-USPS

OXF43H32 permit app

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 3560 0000 4644 1032
PTOL

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$

Total \$ William Lee Huff

Sent To \$ 1108 W County Rd 130

Street Midland TX 79706

City, St

Postmark Here
BRIDGEPORT MO
JUN 20 2017
26330-USPS

OXF43H32 permit app

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Office of Oil and Gas

JUN 21 2017

WV Department of
Environmental Protection

09/22/2017



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Jim Justice
Governor

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

Reissued May 8, 2017

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
OXF43H23	OXF43H24	OXF43H25
OXF43H26	OXF43H27	OXF43H28
OXF43H29	OXF43H30	OXF43H31
OXF43H32 17-017-06849 ✓	OXF43H33	OXF43H35
OXF43H36	OXF43H37	OXF43H38

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

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Office of Oil and Gas

JUN 21 2017

WV Department of
Environmental Protection
09/22/2017

17-06849

Anticipated Frac Additives
Chemical Names and CAS numbers

<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

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JUN 21 2017

WV Department of
Environmental Protection
05/22/2017

SITE CONSTRUCTION, RECLAMATION, AND EROSION & SEDIMENT CONTROL PLANS

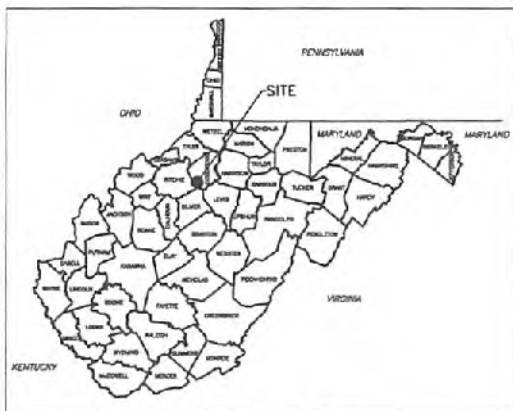
FOR

OXF-43 WELL PAD

SOUTHWEST TAX DISTRICT, DODDRIDGE COUNTY, WV

APPROVED
WVDEP OOG

N/SJ 3/18/2016



COUNTY MAP
NOT TO SCALE

CENTER OF WELL PAD
(NAD83)
LAT: N39°09'25.83"
39.157175
LON: W80°47'53.27"
W80.792576



USGS OMA: OXFORD, WV

VICINITY MAP
SCALE = 1"=2000'

AFFECTED TAX PARCELS:

RANDY E. HUFF DECEDENTS TRUST B. ET AL.
LOT 4
APN: 7-17-1
D.B. 247 P. 256

WETZEL, CATHY JEAN, ET AL.
APN: 07-16-7

MORRIS, I. L.
APN: 07-10-2

COPELAND, MATTHEW H.
APN: 07-10-1

LIST OF DRAWINGS

- 1 COVER SHEET
- 2-7 NOTES AND DETAILS
- 8-9 OVERALL SITE PLAN
- 10-23 EXISTING CONDITIONS PLAN
- 24-37 EROSION AND SEDIMENT CONTROL PLAN
- 38-51 SITE CONSTRUCTION PLAN
- 52-70 PROFILES AND CROSS SECTIONS
- 71-73 RECLAMATION PLAN

FOR REVIEW ASSOCIATE BY									
SUBMITTER	BRIAN D. SPRAY, PE	DESIGN IN CHARGE	DAVE BOSS	DRAWN BY	DAVE BOSS	CHECKED BY	DAVE BOSS	DATE	3/18/2016
COVER SHEET FOR OXF-43 WELL PAD SOUTHWEST TAX DISTRICT, DODDRIDGE COUNTY, WV									
DATE	JUNE 8, 2015								
SHEET NO.	1 OF 23								
DWG. NO.	092812027								

WEST VIRGINIA 811

CALL BEFORE YOU DIG! Dial 811 or 800.245.4848

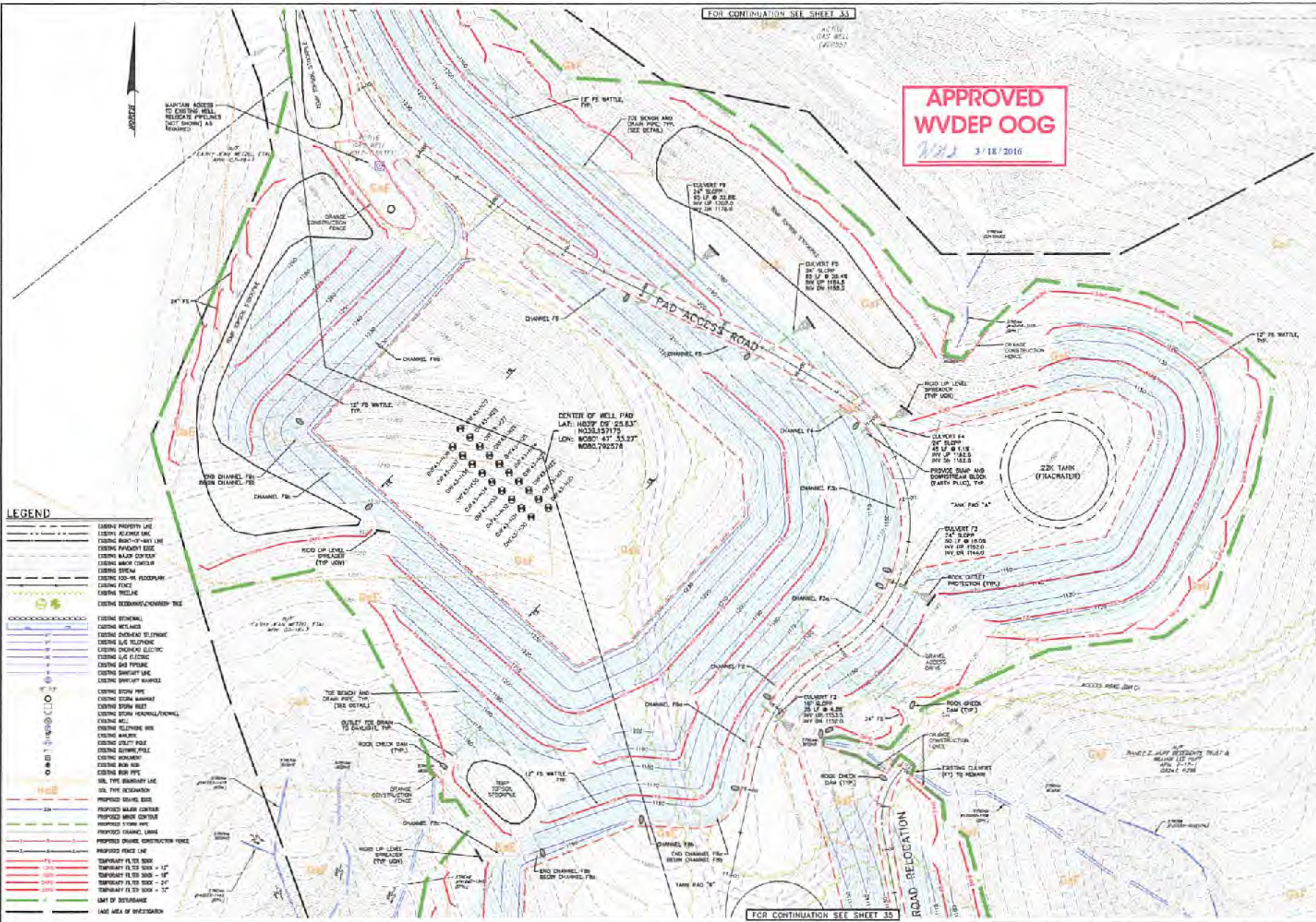
Miss Utility of West Virginia

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES. ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848. DESIGN PHASE TICKET #1502099897, DATE: 1/20/2015.

FOR CONTINUATION SEE SHEET 33

45712
045 2611
443357

**APPROVED
WVDEP OOG**
3/18/2016



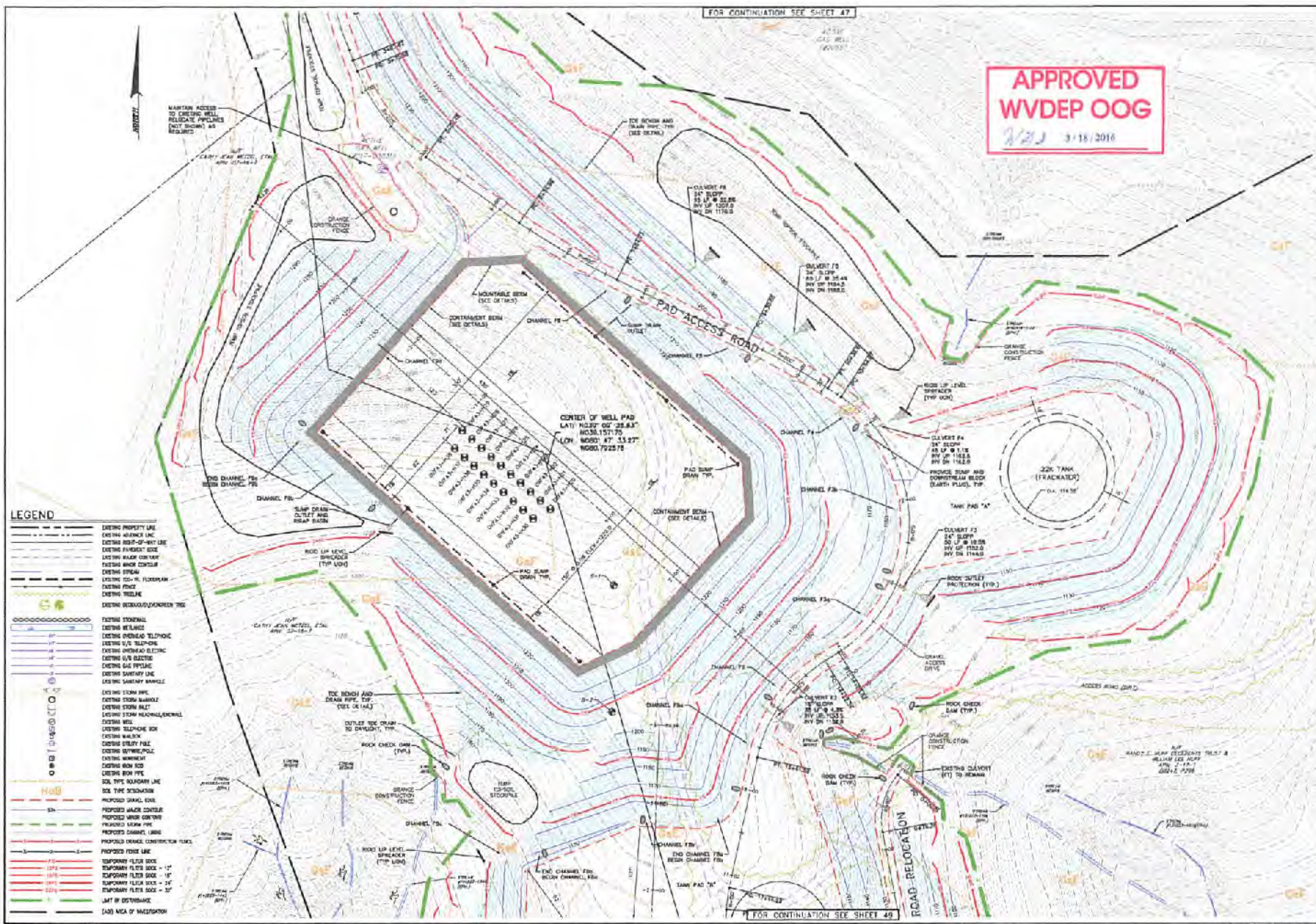
LEGEND

- EXISTING PROPERTY LINE
- EXISTING ALUMINA LINE
- EXISTING 80'-0" W-WAY LINE
- EXISTING PARADISE EDGE
- EXISTING MAJOR CENTERLINE
- EXISTING SLEW
- EXISTING 100'-0" FLOODPLAIN
- EXISTING TRENCH
- EXISTING BEDROCK/CHOKER-TRAIL
- EXISTING BOUNDARY
- EXISTING METALICE
- EXISTING OVERHEAD TELEPHONE
- EXISTING GAS TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS ELECTRIC
- EXISTING GAS PIPELINE
- EXISTING SANITARY LINE
- EXISTING SEWERAGE MAINLINE
- EXISTING STORM MAIN
- EXISTING STORM MAIN/SEWER
- EXISTING SEWER
- EXISTING UTILITY POLE
- EXISTING SWAMP, POLE
- EXISTING ROYAL
- EXISTING ROW AND
- EXISTING ROW FENCE
- SOIL TYPE BOUNDARY LINE
- PROPOSED STAGING AREA
- PROPOSED MAJOR CENTERLINE
- PROPOSED MAJOR CENTERLINE
- PROPOSED STAGING AREA
- PROPOSED CHANNEL LINING
- PROPOSED CHANNEL CONSTRUCTION FENCE
- PROPOSED FENCE LINE
- TEMPORARY FLOOD SOAK
- TEMPORARY FLOOD SOAK - 12"
- TEMPORARY FLOOD SOAK - 18"
- TEMPORARY FLOOD SOAK - 24"
- TEMPORARY FLOOD SOAK - 30"
- LIMIT OF DISTURBANCE
- LAND AREA OF INVESTIGATION

	FOR REVIEW APPROVED BY: WVDEP			
MANAGER	SPECIALIST	DESIGNER	CHECKER	DATE
EQI EQI CORPORATION 115 BUSINESS CENTER BLVD PROFESSIONAL BUILDING ONE BRIDGEPORT, WEST VIRGINIA, 26330 SCALE: 1"=40'				
RETTEW RETTEW ASSOCIATES, INC. 6000 Stonehenge Rd., Suite 100 CHARLOTTE, NORTH CAROLINA 28217 Phone (704) 544-7777 FAX (704) 544-7778 www.rettew.com				
EROSION AND SEDIMENT CONTROL PLAN FOR OXF-43 WELL PAD SOUTHWEST DAM DISTRICT BOONVILLE COUNTY, WV				
DATE: JUNE 8, 2015				
SHEET NO. 34 OF 73				
DWG NO. 092015027				

FOR CONTINUATION SEE SHEET 35

NOT FOR CONSTRUCTION/NOT FOR BIDDING



DATE:	JUNE 18, 2016
SHEET NO.	45 OF 13
DWG. NO.	092612027
<p>SITE CONSTRUCTION PLAN FOR OXF-43 WELL PAD</p>	
<p>REVIEW EOT CORPORATION 115 BRIDGEPORT, WESLEYAN, VIRGINIA, 24180 8000 Stonebriar Way Phone: (540) 442-1272 www.eot.com</p>	
<p>MANAGER: BRAD J. SPERRY, P.E. DRAWN BY: MARK W. BOGGS, P.E. CHECKED BY: MARK W. BOGGS, P.E. SCALE: AS SHOWN</p>	
<p>FOR WATER ACQUISITION BY: EOT CORPORATION</p>	

NOT FOR CONSTRUCTION, NOT FOR BIDDING

17-06849

47-017-06849

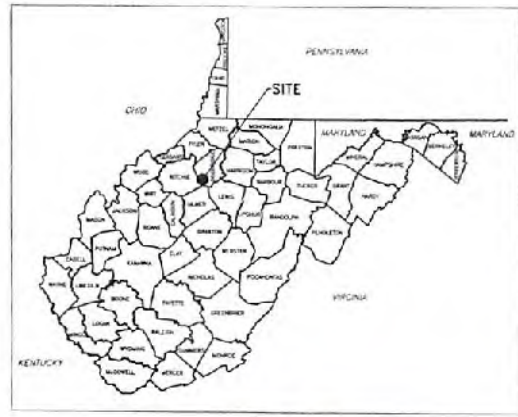
SITE CONSTRUCTION, RECLAMATION, AND EROSION & SEDIMENT CONTROL PLANS

FOR

OXF-43 WELL PAD

SOUTHWEST TAX DISTRICT, DODDRIDGE COUNTY, WV

Jul Ann 6/26/17



CENTER OF WELL PAD (NAD83)
 LAT: N39°09'25.83"
 39.157175
 LON: W80°47'53.27"
 W80.792576



AFFECTED TAX PARCELS:

- RANDY E. HUFF DECEDENT'S TRUST B, ET AL
LOT 4
APN: 7-12-1
D.B. 247 P. 295
- WETZEL, CATHY JEAN, ET AL
APN: 07-16-7
- CREATHOUSE, CHARLES R. & EVELYN G.
APN: 07-13-66
- MORRIS, I. L.
APN: 07-10-2
- CORLAND, MATTHEW H.
APN: 07-10-1

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WEST VIRGINIA 811
 CALL BEFORE YOU DIG!
 Dial 811 or 800.245.4848
 811 is the heart of West Virginia.

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848 DESIGN PHASE TICKET #1502098887, DATE 1/20/2015

DATE	JUNE 8, 2015	
SHEET NO.	1 OF 73	
DWG. NO.	09282027	
PROJECT	OXF-43 WELL PAD	
LOCATION	SOUTHWEST TAX DISTRICT, DODDRIDGE COUNTY, WV	
SCALE	AS NOTED	
DESIGNED BY	BRAND D. SPRAY, PE	
CHECKED BY	DAVE BOSS	
DRAWN BY	DAVE BOSS	
DATE	06/26/17	
PROJECT NO.	09282027	
DATE	06/26/17	
REVISION		
NO.	DATE	DESCRIPTION
1	8-05-15	REVISED EXISTING UTILITIES
2	8-25-15	REVISED EXISTING UTILITIES
3	8-25-15	REVISED EXISTING UTILITIES
4	8-25-15	REVISED EXISTING UTILITIES

EQT CORPORATION
 115 PROFESSIONAL PLACE
 PROFESSIONAL BUILDING ONE
 BRIDGEPORT, WEST VIRGINIA 26033

REVIEW
 REVIEW ASSOCIATES, INC.
 5000 Rte. 100, Suite 200
 Pittsburgh, PA 15201
 Phone: 412.321.1111
 Fax: 412.321.1112
 Email: info@reviewinc.com, www.reviewinc.com

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 Office of Oil and Gas
 JUL 6 2017
 WV Department of
 Environmental Protection

17-06849