



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

Tuesday, June 12, 2018
PERMIT MODIFICATION APPROVAL
Horizontal 6A / Horizontal 6A Well - 1

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit Modification Approval for 516233
47-017-06744-00-00

Lease added because of proximity

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

A handwritten signature in blue ink, appearing to read "James A. Martin", is positioned to the right of the typed name and title.

Operator's Well Number: 516233
Farm Name: WETZEL, CATHY
U.S. WELL NUMBER: 47-017-06744-00-00
Horizontal 6A Horizontal 6A Well - 1
Date Modification Issued: June 12, 2018

Promoting a healthy environment.

06/15/2018



47-017 06744 mod

October 4, 2017

Laura Adkins
West Virginia Department of Environmental Protection
601 57th Street SE
Charleston, WV 25304

Re: Modification of 47-017-06744

Dear Ms. Adkins,

Attached is a modification for the above API number. Because of the proximity, an additional lease # 109481 has been added to the 6A1 form.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Regional Land Supervisor

Enc.

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WV 516233
EQT Production Company
Franklin Maxwell Heirs L. P.
255 Acres ±

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

NO.	ADJACENT OWNER
4	MORRIS I L IKE
7	HUFF WILLIAM LEE
36	CHARLES WALTER MUNCHMORE

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.	SURFACE OWNER
1	CHARLES R & EVELYN GREATHOUSE GAPN
2	JAMES P GREATHOUSE
3	CATHY JEAN WETZEL ETAL
5	HUFF RANDY E DECEDENT'S BETTY M. RYAN
14	EDWARD DALE PRUNTY
17	EDRA LOUISE GRIMM
18	RANDALL L & KELLY GRIMM
21	RANDALL L & KELLY GRIMM
22	RANDALL L & KELLY GRIMM
23	UNITED STATES OF AMERICA
24	GREGORY L & ROXANNA J MORGAN
25	GREGORY L & ROXANNA J MORGAN
26	UNITED STATES OF AMERICA
27	EDWARD & GINA BASSETT
28	EDWARD & GINA BASSETT
29	CARLTON W & PATRICIA MATHENY
30	MARIAN G ZORN

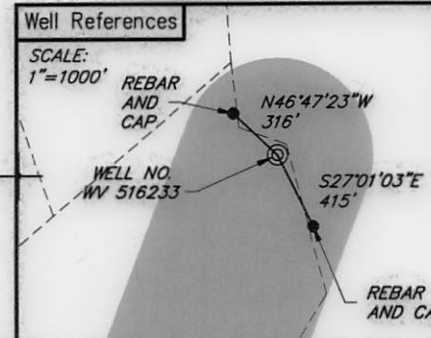
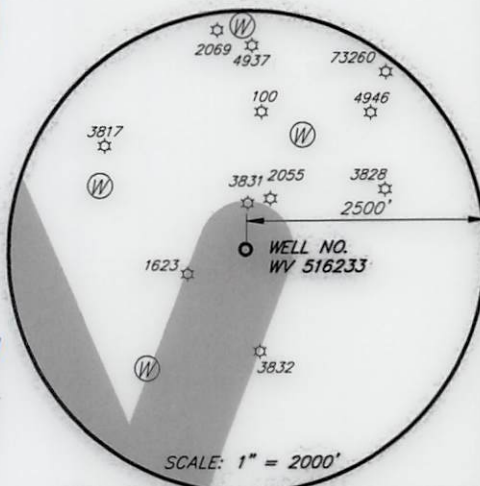
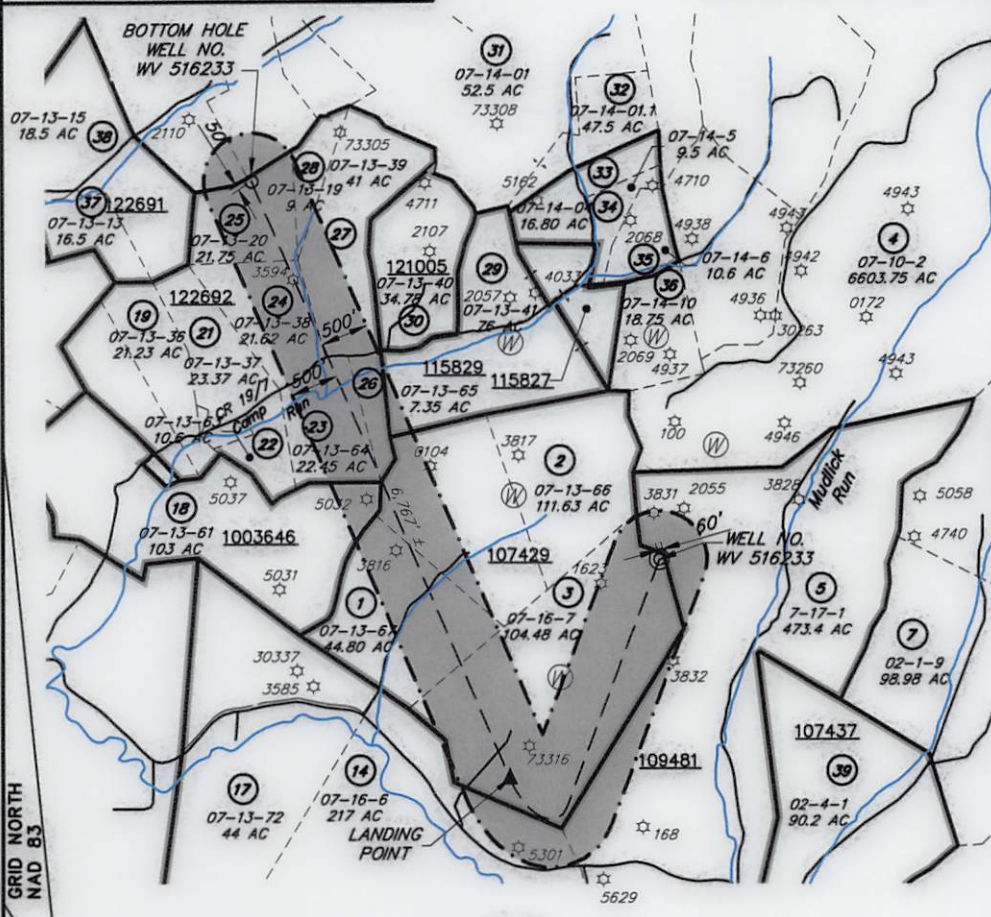
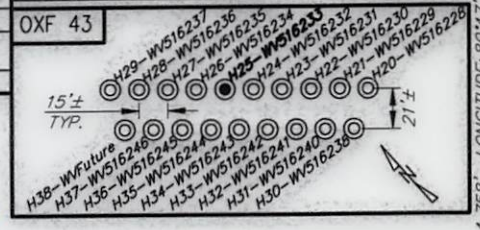
WV 516233 Well Point Coordinates

Top Hole Coordinates			
NAD 27 S.P.C. (Ft.)	N: 241,963.119	E: 1,633,365.966	
NAD 27 GEO	LAT: 39.157087	LONG: 80.792934	
NAD 83 UTM 17N (M)	N 4,334,239.0	E: 517,905.5	
NAD 83 S.P.C. (Ft.)	N 241,998.5	E: 1,601,925.1	

Landing Point Coordinates			
NAD 27 S.P.C. (Ft.)	N: 239,692.095	E: 1,631,797.798	
NAD 27 GEO	LAT: 39.150791	LONG: 80.798348	
NAD 83 UTM 17N (M)	N 4,333,539.1	E: 517,439.3	
NAD 83 S.P.C. (Ft.)	N 239,727.4	E: 1,600,357.0	

Bottom Hole Coordinates			
NAD 27 S.P.C. (Ft.)	N: 245,899.290	E: 1,629,106.950	
NAD 27 GEO	LAT: 39.167724	LONG: 80.808154	
NAD 83 UTM 17N (M)	N 4,335,416.4	E: 516,588.0	
NAD 83 S.P.C. (Ft.)	N 245,934.5	E: 1,597,666.1	

Lease No.	Acres	Owner
122692	200	Jonathan D. Casto, et al
109841	2000	Adele McDougal, 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: AUGUST 22, 20 17
 OPERATORS WELL NO. WV 516233
 API WELL NO. 47
 STATE COUNTY PERMIT 017 06944

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 06/15/2018
 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
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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

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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: Regional Land Supervisor

4701706744 MOD

WW-6A1 attachment

Operator's Well No.

516233

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 Oil Co.		LB24/64
	The Philadelphia Oil Co.	The Philadelphia Co. of West Virginia		DB87/90
	The Philadelphia Co. of West Virginia	Equitable Gas Co.		LB95/88
	Equitable Gas Co.	Equitrans, Inc.		LB154/475
	Equitrans, Inc.	Equitable Production-Eastern States, Inc.		LB 192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB281/346
	Equitable Production Company	EQT Production Co.		CB281/346
122692	Jonathan D Casto, et al (current royalty owner)		**	
	R. J. Gaston, et al (original lessor)	Carter Oil Co.		LB36/362
	Carter Oil Co.	Hope Natural Gas Co.		LB42/410
	Hope Natural Gas Co.	Pittsburgh & WV Gas Co.		LB53/82
	Pittsburgh & WV Gas Co.	Equitable Gas Co.		DB121/303
	Equitable Gas Co.	Equitrans, Inc.		LB154/475
	Equitrans, Inc.	Equitable Production-Eastern States, Inc.		LB192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB281/346
	Equitable Production Company	EQT Production Co.		CB281/346
109481	Adele McDougal et al (current 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.		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.

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