

Reviewed

*Julian 8/29/18*

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 516235

API: 47 - 017 - 06747

Submission:  Initial  Amended

Notes: w/o FB

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

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API 47-017-06747 County DODDRIDGE District SOUTH WEST / COVE  
Quad OXFORD Pad Name OXF43 Field/Pool Name N/A  
Farm name FRANKLIN MAXWELL HEIRS L.P. Well Number 516235

Operator (as registered with the OOG) EQT Production Company  
Address 115 Professional Place, PO Box 280 City Bridgeport State WV Zip 26330

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,334,245.0 Easting 517,898.6  
Landing Point of Curve Northing 4,334,242.5 Easting 517,630.2  
Bottom Hole Northing 4,335,559.1 Easting 517,060.6

Elevation (ft) 1229 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other w/o FB  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s) Water Base Mud 12.6 ppg, aliphatic based non-aqueous drilling fluid, barium sulfate, calcium chloride, organophylic clay, quaternary ammonium clay, gilsonite, blended emulsifier, wetting agent, blended graphite, hydrated lime, calcium carbonate, ground walnut shells, fibrous cellulose.

Date permit issued 08/30/2016 Date drilling commenced 08/02/2017 Date drilling ceased 09/17/2017  
Date completion activities began 4/4/2018 Date completion activities ceased 4/20/2018  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 73,224,310,385 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft No shallow SW Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 324 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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API 47-017 - 06747 Farm name FRANKLIN MAXWELL HEIRS L.P. Well number 516235

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	552'	NEW	J-55 54.5#	193'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	5306'	NEW	A-500 40# & P-110 40#	5011' & 3304'	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5 1/2"	12016'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has calculated TOC of 5594' MD, which is greater than 500' TVD above the producing formation. No issues during cement job

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	49	15.6	1.18	57.82	0	8
Surface	CLASS A	520	15.6	1.20	624	0	8
Coal							
Intermediate 1	CLASS A / CLASS A	788 / 1100	15.6 / 15.6	1.18 / 1.18	2228	0	8
Intermediate 2							
Intermediate 3							
Production	Class H / Class H	162 / 616	15.2 / 15.6	1.25 / 2.06	1472	5594'	8
Tubing							

Drillers TD (ft) 12027 MD Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

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Kick off depth (ft) 5830' MD

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

Well cored  Yes  No  Conventional  Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING CONDUCTOR: NONE

SURFACE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE

INTERMEDIATE 1 : ON SHOE TRACK AND EVERY 500' FEET TO SURFACE

PRODUCTION: ON SHOE TRACK AND EVERY JOINT TO 5339'

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

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API 47- 017 - 06747 Farm name FRANKLIN MAXWELL HEIRS L.P. Well number 516235

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6,616'</u> TVD	<u>7,097'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

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Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump  
SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs  
OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  
 Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Savanna Drilling  
Address 125 Industry Road City Waynesburg State PA Zip 15370

Logging Company Gyrodata Inc.  
Address 601 Mayer St. City Bridgeville State PA Zip 15017

Cementing Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company FTS International  
Address 1432 Route 519 City Eighty Four State PA Zip 15330

Please insert additional pages as applicable.

Completed by Bradley Maddox Telephone (412) 395-7053  
Signature  Title Dir Completions Date 07/18/2018

API 47- 017 - 06747 Farm name FRANKLIN MAXWELL HEIRS L.P. Well number 516235

Drilling Contractor Decker Drilling  
Address 11565 State Route 676 City Vincent State OH Zip 45784

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company Scientific Drilling International, Inc.  
Address 124 Vista Drive City Charleroi State PA Zip 15022

Cementing Company BJ Services, LLC  
Address 4000 Town Center Blvd, Suite 210 City Cannonsburg State PA Zip 15317

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Well# 516235 Final Formations API# 47-017-06747-00-00				
Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
SAND / SHALE	1	1	321	321
WAYNESBURG A	321	321	322	322
SAND / SHALE	322	322	1,088	1,088
MAXTON	1,088	1,088	1,128	1,128
SAND / SHALE	1,128	1,128	1,964	1,964
BIG LIME	1,964	1,964	2,032	2,032
SAND / SHALE	2,032	2,032	2,076	2,076
BIG INJUN	2,076	2,076	2,108	2,108
SAND / SHALE	2,108	2,108	2,250	2,250
WEIR	2,250	2,250	2,376	2,376
SAND / SHALE	2,376	2,376	2,450	2,450
GANTZ	2,450	2,450	2,532	2,532
FIFTY FOOT	2,532	2,532	2,589	2,589
SAND / SHALE	2,589	2,589	2,630	2,630
THIRTY FOOT	2,630	2,630	2,666	2,666
SAND / SHALE	2,666	2,666	2,672	2,672
GORDON	2,672	2,672	2,721	2,721
SAND / SHALE	2,721	2,721	2,772	2,772
FORTH SAND	2,772	2,772	2,839	2,839
SAND / SHALE	2,839	2,839	2,953	2,953
BAYARD	2,952	2,952	3,023	3,023
SAND / SHALE	3,023	3,023	3,286	3,286
WARREN	3,286	3,286	3,352	3,352
SPEECHLEY	3,352	3,352	3,857	3,857
BALLTOWN A	3,857	3,857	4,215	4,215
SAND / SHALE	4,215	4,215	4,455	4,454
RILEY	4,455	4,454	4,831	4,829
BENSON	4,831	4,829	4,925	4,923
ALEXANDER	5,133	5,130	5,226	5,222
ELKS	5,226	5,222	6,523	6,281
SONYEA	6,523	6,281	6,701	6,413
MIDDLESEX	6,701	6,413	6,788	6,473
GENESEE	6,788	6,473	6,890	6,537
GENESEO	6,890	6,537	6,890	6,537
TULLY	6,890	6,537	7,040	6,602
HAMILTON	7,040	6,602	7,097	6,616
MARCELLUS	7,097	6,616	12,027	6,711

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- WELL BOTTOM HOLE
- REBAR FOUND
- DRILLED LATERAL LINE
- PERMITTED LATERAL LINE
- LEASE BOUNDARY
- PROPERTY LINE
- STREAM
- 500' LATERAL COLLECTION BUFFER

35	UNKNOWN
36	CHARLES WALTER MUNCHMORE

19	LENA LOUISE GRIMM
26	UNITED STATES OF AMERICA
27	EDWARD & GINA BASSETT
28	EDWARD & GINA BASSETT
29	CARLTON W & PATRICIA MATHENY
30	MARIAN G ZORN

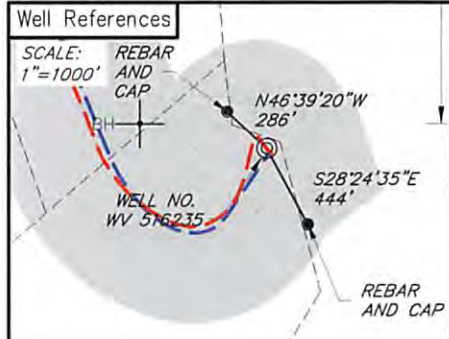
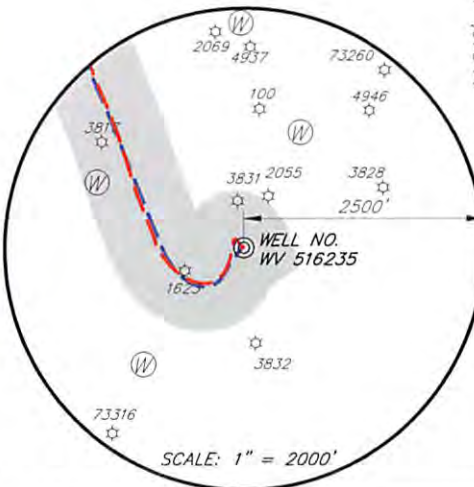
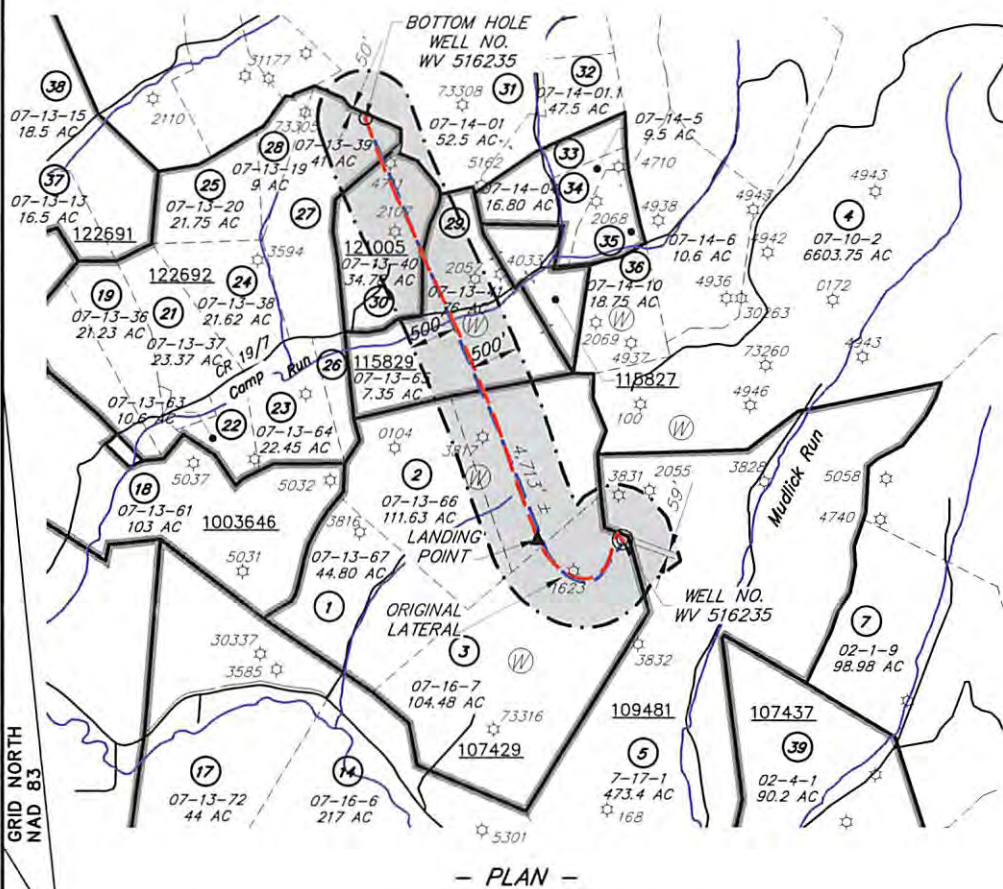
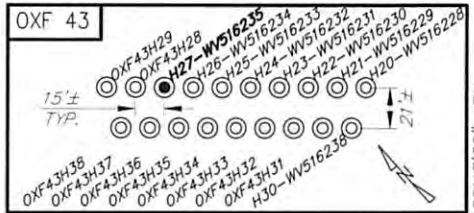
NAD 27 S.P.C. (Ft.)	N: 441,989.121	E: 3,034,462.851
NAD 27 GEO	LAT: 39.157125	LONG: 80.796120
NAD 83 UTM 17N (M)	N 4,334,242.5	E: 517,630.2
NAD 83 S.P.C. (Ft.)	N 242,025.0	E: 1,601,022.0

Bottom Hole Coordinates		
NAD 27 S.P.C. (Ft.)	N: 246,341.542	E: 1,630,665.701
NAD 27 GEO	LAT: 39.169000	LONG: 80.802679
NAD 83 UTM 17N (M)	N 4,335,559.1	E: 517,060.6
NAD 83 S.P.C. (Ft.)	N 246,376.8	E: 1,599,224.8

Lease No.	Acres	Owner
115829	60	Carlton Matheny, et al
121005	36.5	Marian G. Zorn
122692	200	Jonathan D. Casto, et al
109481	2000	Adele McDougal, et al

**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.



(+) 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	OCTOBER 2	20	17
OPERATORS WELL NO.	WV 516235		
API WELL NO.	47	17	06747
STATE	COUNTY	PERMIT	

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  
 DISTRICT: SOUTH WEST / COVE COUNTY: DODDRIDGE  
 SURFACE OWNER: Cathy Wetzel ACREAGE: 104.48± AC  
 ROYALTY OWNER: Franklin Maxwell Heirs L. P. I FASF NO.: 107429 ACRFAFG: 255± AC

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PLOT DATE: 10/2/2017 CAD FILE: OXF 43\_WELL\_PLAT-2017-10-02.DWG

14,249' LONGITUDE: 80°47'30" BH



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**516235 47-017-06747-0000 - Perforations**

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	12/15/2017	11,988	12,016	10	Marcellus
1	4/6/2018	11,828	11,950	32	Marcellus
2	4/6/2018	11,628	11,790	40	Marcellus
3	4/6/2018	11,428	11,590	40	Marcellus
4	4/6/2018	11,228	11,390	40	Marcellus
5	4/7/2018	11,048	11,190	40	Marcellus
5	4/7/2018	11,028	11,090	16	Marcellus
6	4/8/2018	10,828	11,000	40	Marcellus
7	4/8/2018	10,628	10,790	40	Marcellus
8	4/10/2018	10,428	10,590	16	Marcellus
8	4/9/2018	10,338	10,450	40	Marcellus
9	4/10/2018	10,188	10,350	40	Marcellus
10	4/10/2018	9,988	10,150	40	Marcellus
11	4/12/2018	9,788	9,950	40	Marcellus
12	4/13/2018	9,588	9,750	24	Marcellus
12	4/12/2018	9,528	9,570	40	Marcellus
13	4/13/2018	9,326	9,488	24	Marcellus
14	4/14/2018	9,126	9,288	40	Marcellus
15	4/14/2018	8,926	9,088	40	Marcellus
16	4/16/2018	8,726	8,888	40	Marcellus
17	4/16/2018	8,526	8,688	40	Marcellus
18	4/17/2018	8,326	8,488	40	Marcellus
19	4/18/2018	8,126	8,288	40	Marcellus
20	4/19/2018	7,926	8,088	40	Marcellus
21	4/19/2018	7,726	7,888	40	Marcellus
22	4/19/2018	7,526	7,688	40	Marcellus
23	4/20/2018	7,326	7,488	40	Marcellus
24	4/20/2018	7,126	7,288	40	Marcellus
25	4/20/2018	6,926	7,088	40	Marcellus

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**516235 47-017-06747-0000 - Stimulated Stages**

Stage Number	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1.01	4/5/2018	16	7,224	8,554	5,017	0	996	0
1	4/6/2018	93	8,129	9,243	3,528	450,021	7,945	0
2	4/6/2018	81	8,838	9,699	4,774	452,921	9,331	0
3	4/6/2018	83	8,743	9,463	5,085	449,754	9,241	0
4	4/7/2018	93	8,649	9,255	4,854	450,021	8,856	0
5	4/7/2018	65	8,907	9,407	4,941	66,180	6,148	0
5	4/8/2018	80	8,524	9,134	4,912	384,263	7,505	0
6	4/8/2018	100	8,612	9,526	4,944	417,981	7,791	0
7	4/9/2018	97	8,335	9,678	4,958	330,855	7,039	0
8	4/9/2018	94	8,454	9,598	5,015	224,732	6,092	0
8	4/10/2018	74	8,234	9,562	5,411	174,153	5,192	0
9	4/10/2018	100	8,205	9,251	5,683	431,332	8,869	0
10	4/11/2018	91	7,514	10,121	7,169	294,769	8,484	0
11	4/12/2018	90	8,128	9,507	4,600	450,031	9,541	0
12	4/13/2018	79	9,039	9,656	5,268	11,971	3,343	0
12	4/13/2018	96	8,185	8,688	4,335	433,895	8,551	0
13	4/14/2018	100	7,357	7,790	4,819	449,684	8,282	0
14	4/14/2018	98	8,160	8,948	4,020	449,443	10,267	0
15	4/16/2018	100	7,836	9,142	5,089	322,743	9,872	0
16	4/16/2018	93	7,771	9,239	4,398	449,708	10,567	0
17	4/17/2018	99	7,349	7,565	4,848	449,709	8,449	0
18	4/17/2018	97	7,978	9,132	4,792	450,037	9,206	0
19	4/19/2018	100	7,539	8,081	5,247	450,081	8,142	0
20	4/19/2018	100	7,621	7,936	4,930	450,842	7,297	0
21	4/19/2018	100	7,514	8,786	5,626	402,088	6,812	0
22	4/19/2018	98	7,601	8,220	5,288	450,053	9,138	0
23	4/20/2018	86	8,287	9,101	5,171	309,144	9,751	0
24	4/20/2018	93	7,701	7,854	5,573	450,522	7,681	0
25	4/20/2018	99	6,879	7,108	4,258	450,045	8,045	0

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JUL 19 2018

# Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	4/4/2018
Job End Date:	4/20/2018
State:	West Virginia
County:	Doddridge
API Number:	47-017-06747-00-00
Operator Name:	EQT Production
Well Name and Number:	516235
Latitude:	39.15714000
Longitude:	-80.79301000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,711
Total Base Water Volume (gal):	9,594,186
Total Base Non Water Volume:	0

## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	FTS International	Carrier/Base Fluid	Water	7732-18-5	100.00000	87.96482	None
MX-8-2544	Multi-Chem	Bacteria Treatment		Listed Below			

CI-150	FTS International	Acid Corrosion Inhibitor									
Sand (Proppant)	FTS International	Proppant				Listed Below					
						Listed Below					
Other Chemical (s)	Listed Above	See Trade Name (s) List									
MX-5-3886	Multi-Chem	Bacteria Treatment				Listed Below					
FRW-1450	FTS International	Mixture				Listed Below					
CS-1000-SI	FTS International	Scale Inhibitor				Listed Below					
Hydrochloric Acid (15%)	FTS International	Acidizing				Listed Below					
ABP-1	FTS International	Breaker				Listed Below					
HVG-14.0	FTS International	Gelling Agent				Listed Below					

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					Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.									
					Silica Substrate	14808-60-7	100.00000	11.59883	None
					Hydrochloric Acid	7647-01-0	15.00000	0.04138	None
					Calcium Nitrate.4H2O	13477-34-4	100.00000	0.03869	
					Calcium Nitrate.4H2O	13477-34-4	100.00000	0.03869	None
					Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.02791	
					Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.02791	None
					Phosphonic Acid, (Nitrilotris (methylene) Tris	6419-19-8	35.00000	0.00868	None
					Phosphonic Acid, (Nitrilotris (methylene) Tris	6419-19-8	35.00000	0.00868	
					Alcohols, C-11-14-iso, C-13-rich, ethoxylated	78330-21-9	5.00000	0.00465	
					Alcohols, C-11-14-iso, C-13-rich, ethoxylated	78330-21-9	5.00000	0.00465	None
					Sodium Chloride	7647-14-5	100.00000	0.00238	None
					Sodium Chloride	7647-14-5	100.00000	0.00238	
					Phosphonic Acid, (Dimethylamino) Methylene) Bis-	29712-30-9	5.00000	0.00124	
					Phosphonic Acid, (Dimethylamino) Methylene) Bis-	29712-30-9	5.00000	0.00124	None
					Phosphorous Acid	10294-56-1	2.00000	0.00050	None
					Phosphorous Acid	10294-56-1	2.00000	0.00050	
					Raffinates, Sorption Process	64741-85-1	55.00000	0.00045	None
					Raffinates, Sorption Process	64741-85-1	55.00000	0.00045	
					Guar Gum	9000-30-0	50.00000	0.00041	
					Guar Gum	9000-30-0	50.00000	0.00041	None
					Ammonium Persulfate	7727-54-0	95.00000	0.00026	None

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	Isopropanol	67-63-0	30.00000	0.00014	None
	Ethylene Glycol	107-21-1	30.00000	0.00014	None
	Organic Amine Resin Salt	Proprietary	30.00000	0.00014	None
	Sodium Nitrate	7631-99-4	5.00000	0.00012	None
	Sodium Nitrate	7631-99-4	5.00000	0.00012	
	Dimethylformamide	68-12-2	10.00000	0.00005	None
	Aromatic Aldehyde	Proprietary	10.00000	0.00005	None
	Quaternary Ammonium Compound	Proprietary	10.00000	0.00005	None
	Quartz	14808-60-7	4.00000	0.00003	
	Quartz	14808-60-7	4.00000	0.00003	None
	Isotridecanol, ethoxylated	9043-30-5	2.00000	0.00002	None
	Isotridecanol, ethoxylated	9043-30-5	2.00000	0.00002	

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water  
\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%  
\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.  
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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Office of Oil and Gas

JUL 19 2018

WV Department of  
Environmental Protection

09/07/2018

**H27 - WV 516235**  
**OXF43**  
**EQT Production Company**

NO.	ADJACENT OWNER	NO.	SURFACE OWNER
4	MORRIS I L IKE	1	CHARLES R & EVELYN GREATHOUSE GAPN
7	HUFF WILLIAM LEE	2	JAMES P GREATHOUSE
32	MICHAEL D & SUSAN H ZORN	3	CATHY JEAN WETZEL ETAL
33	MATHENY M & PATRICIA M CARLTON	5	HUFF RANDY E DECEDENT'S BETTY M. RYAN
34	CHARLES WALTER MUNCHMORE	14	EDWARD DALE PRUNTY
35	UNKNOWN	18	EDRA LOUISE GRIMM
36	CHARLES WALTER MUNCHMORE	19	RANDALL L GRIMM
		26	UNITED STATES OF AMERICA
		27	EDWARD & GINA BASSETT
		28	EDWARD & GINA BASSETT
		29	CARLTON W & PATRICIA MATHENY
		30	MARIAN G ZORN

**WV 516235 Well Point Coordinates**

Top Hole Coordinates		
NAD 27 S.P.C. (Ft.)	N: 241,983.170	E: 1,633,343.650
NAD 27 GEO	LAT: 39.157141	LONG: 80.793014
NAD 83 UTM 17N (M)	N 4,334,245.0	E: 517,898.6
NAD 83 S.P.C. (Ft.)	N 242,018.5	E: 1,601,902.8

Landing Point Coordinates		
NAD 27 S.P.C. (Ft.)	N: 241,989.727	E: 1,632,462.837
NAD 27 GEO	LAT: 39.157125	LONG: 80.796120
NAD 83 UTM 17N (M)	N 4,334,242.5	E: 517,630.2
NAD 83 S.P.C. (Ft.)	N 242,025.0	E: 1,601,022.0

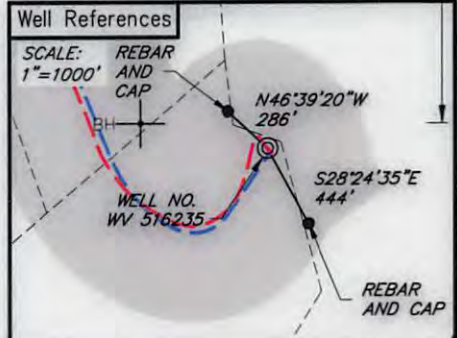
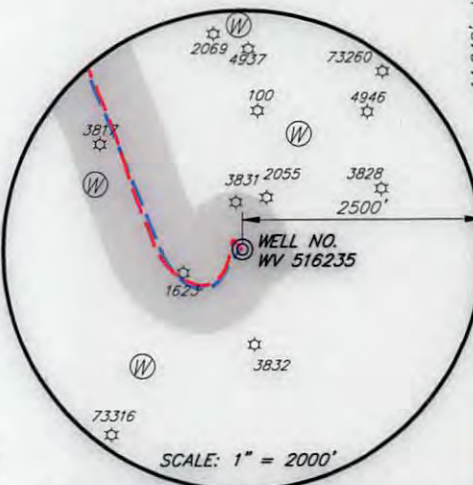
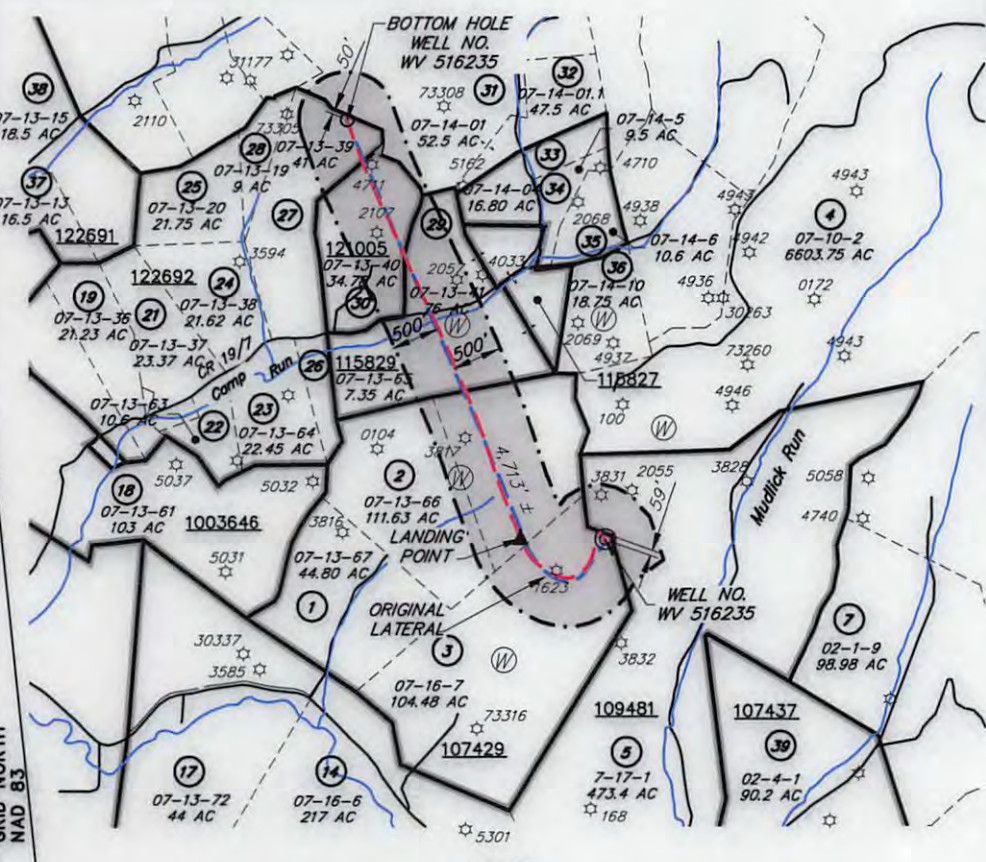
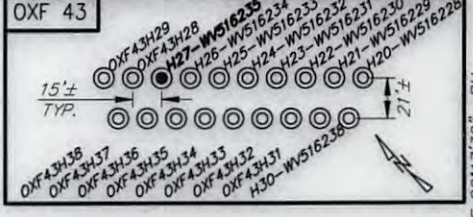
Bottom Hole Coordinates		
NAD 27 S.P.C. (Ft.)	N: 246,341.542	E: 1,630,665.701
NAD 27 GEO	LAT: 39.169000	LONG: 80.802679
NAD 83 UTM 17N (M)	N 4,335,559.1	E: 517,060.6
NAD 83 S.P.C. (Ft.)	N 246,376.8	E: 1,599,224.8

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

**Lease No. Acres Owner**

115829	60	Carlton Matheny, et al
121005	36.5	Marian G. Zorn
122692	200	Jonathon D. Casto, et al
109481	2000	Adele McDougal, et al

**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.



(+) 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 OCTOBER 2, 20 17  
 OPERATORS WELL NO. WV 516235  
 API WELL NO. 47 17 06747  
 STATE COUNTY PERMIT

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 09/07/2018  
 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. Roy  
 ADDRESS: 115 Professional Pl. P.O. Box 280 ADDRESS: 115 Professional Pl. P.O. Box 280  
Bridgeport, WV 26330 Bridgeport, WV 26330