

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

API 47-017-06746 County Doddridge District Southwest/Cove  
Quad Oxford Pad Name OXF43 Field/Pool Name N/A  
Farm name Cathy Jean Wetzel, et. la. Well Number OXF43 30H (516238)  
Operator (as registered with the OOG) EQT Production Company  
Address 2400 Ansys Drive, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,334,220.6 Easting 517,916.8  
Landing Point of Curve Northing 4,334,847.4 Easting 518,800.8  
Bottom Hole Northing 4,335,985.2 Easting 518,268.5

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

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)

Synthetic Oil Based Mud 12.8 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 02/19/2020 Date drilling commenced 06/25/2017 Date drilling ceased 08/16/2020  
Date completion activities began \_\_\_\_\_ Date completion activities ceased \_\_\_\_\_  
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 85,236,322,397,454 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 336 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**Reviewed**

Reviewed by:  
SDW

**12/24/2021**

API 47-017 - 06746 Farm name Cathy Jean Wetzel, et. la. Well number OXF43 30H (516238)

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	553'	NEW	J-55 54.5#	200'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	5476'	NEW	HCEI P110 47#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5 1/2"	13,100'	NEW	P-110 HP 20#	N/A	N
Tubing							
Packer type and depth set		Open Hole Packer set at 3174'					

Comment Details Production Cement job has a calculated TOC of 3797' 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	120	15.6	1.20	144	0	8+
Surface	CLASS A	520	15.6	1.20	624	0	8
Coal							
Intermediate 1	HALCEM	735 / 1090	15.6	1.24 / 1.18	2197	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2099	15.2	1.04	2183	3797'	8+
Tubing							

Drillers TD (ft) 13,117' MD Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 1027' 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' TO SURFACE \_\_\_\_\_  
 INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE \_\_\_\_\_  
 PRODUCTION: ON SHOE TRACK AND EVERY JOINT TO 3709' \_\_\_\_\_

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 \_\_\_\_\_





API 47- 017 - 06746 Farm name Cathy Jean Wetzel, et. Ia. Well number OXF43 30H (516238)

Drilling Contractor Patterson UTI (Rig 277)  
Address 207 Carlton Dr City Eighty Four State PA Zip 15330

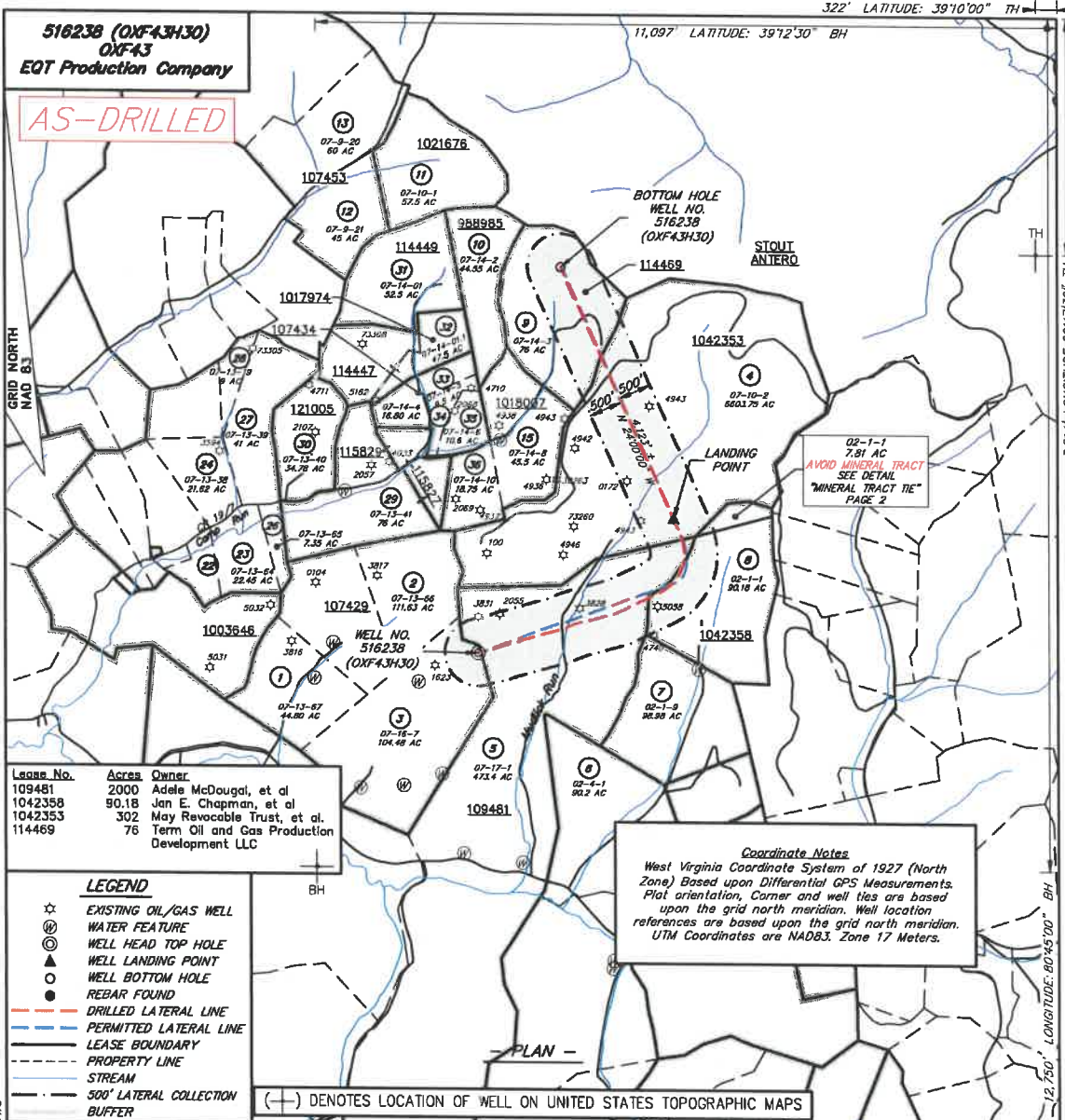
Logging Company Scientific Drilling International  
Address 124 Vista Drive City Charleroi State PA Zip 15022

Logging Company Gyrodatta  
Address 73 Noblestown Rd City Carnegie State PA Zip 15106

Cementing Company BJ Services  
Address 4000 Town Center Blvd. City Canonsburg State PA Zip 15317

Well# OXF43 30H 516238 Final Formations API# 47-017-06746				
Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
Sand/Shale	1	1	336	336
Waynesburg A	336	336	337	337
Sand/Shale	337	337	1,099	1,099
Maxton	1,099	1,099	1,139	1,139
Sand/Shale	1,139	1,139	1,975	1,961
Big Lime	1,975	1,961	2,043	2,027
Sand/Shale	2,043	2,027	2,087	2,069
Big Injun	2,087	2,069	2,119	2,099
Sand/Shale	2,119	2,099	2,261	2,235
Weir	2,261	2,235	2,387	2,356
Sand/Shale	2,387	2,356	2,461	2,427
Gantz	2,461	2,427	2,543	2,506
Fifty foot	2,543	2,506	2,600	2,560
Sand/Shale	2,600	2,560	2,641	2,600
Thirty foot	2,641	2,600	2,677	2,634
Sand/Shale	2,677	2,634	2,683	2,640
Gordon	2,683	2,640	2,732	2,687
Sand/Shale	2,732	2,687	2,783	2,737
Forth Sand	2,783	2,737	2,850	2,801
Sand/Shale	2,850	2,801	2,963	2,910
Bayard	2,963	2,910	3,034	2,978
Sand/Shale	3,034	2,978	3,297	3,231
Warren	3,297	3,231	3,363	3,294
Speechley	3,363	3,294	3,868	3,781
Balltown A	3,868	3,781	4,226	4,126
Sand/Shale	4,226	4,126	4,466	4,356
Riley	4,466	4,356	4,842	4,717
Benson	4,842	4,717	4,936	4,808
Sand/Shale	4,936	4,808	5,144	5,008
Alexander	5,144	5,008	5,237	5,098
Elks	5,237	5,098	7,380	6,329
Sonyea	7,380	6,329	7,856	6,490
Middlesex	7,856	6,490	7,967	6,528
Genesee	7,967	6,528	8,265	6,617
Geneseo	8,265	6,617	8,436	6,663
Tully	8,436	6,663	8,527	6,685
Hamilton	8,527	6,685	8,658	6,706
Marcellus	8,658	6,706	13,117	6,731

12/24/2021



Lease No.	Acres	Owner
109481	2000	Adele McDougal, et al
1042358	90.18	Jan E. Chapman, et al
1042353	302	May Revocable Trust, et al
114469	76	Term Oil and Gas Production Development LLC

- 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

**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.

*Handwritten 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 20, 20 20  
 OPERATORS  
 WELL NO. 516238 (OXF43H30)  
 API WELL NO.  
47 017 06746  
 STATE COUNTY PERMIT

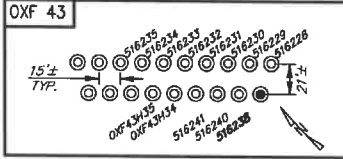
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION, ELEVATION: 1229' (As-Built Pad) WATERSHED: Middle Fork Hughes River QUADRANGLE: OXFORD  
 DISTRICT: SOUTH WEST / COVE COUNTY: DODDRIDGE  
 SURFACE OWNER: Cathy Jean Wetzel, ET AL ACREAGE: 104.48± AC  
 ROYALTY OWNER: Franklin Maxwell Heirs L. P. LEASE NO.: 107429 ACREAGE: 255± AC  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,647'  
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow  
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Pl., P.O. Box 280  
Canonsburg, PA 15317 Bridgeport, WV 26330

WWW.ENCOMPASSSERVICES.COM PLOT DATE: 8/26/2020 CAD FILE: OXF\_43\_WELL\_PLAT-2020-08-20.DWG

12/24/2021

516238 (OXF43H30)  
OXF43  
EQT Production Company

AS-DRILLED



**516238 (OXF43H30) Well Point**

**Coordinates**

**Top Hole Coordinates**

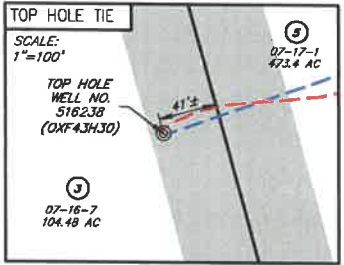
NAD 27 S.P.C. (Ft.)	N: 241,902.390	E: 1,633,402.140
NAD 27 GEO	LAT: 39.137008	LONG: 80.726730
NAD 83 UTM 17N (M)	N: 4,334,220.6	E: 517,916.8
NAD 83 S.P.C. (Ft.)	N: 241,937.7	E: 1,601,961.3

**Landing Point Coordinates**

NAD 27 S.P.C. (Ft.)	N: 243,910.550	E: 1,636,337.410
NAD 27 GEO	LAT: 39.162637	LONG: 80.762381
NAD 83 UTM 17N (M)	N: 4,334,847.4	E: 518,800.8
NAD 83 S.P.C. (Ft.)	N: 243,946.0	E: 1,604,856.6

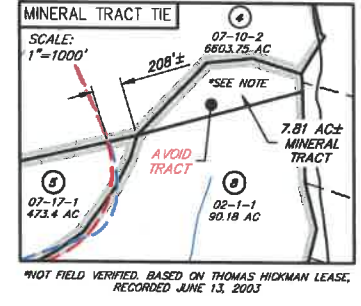
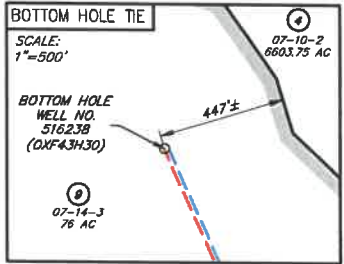
**Bottom Hole Coordinates**

NAD 27 S.P.C. (Ft.)	N: 247,673.680	E: 1,636,652.760
NAD 27 GEO	LAT: 39.172901	LONG: 80.788512
NAD 83 UTM 17N (M)	N: 4,335,985.2	E: 518,768.5
NAD 83 S.P.C. (Ft.)	N: 247,703.0	E: 1,605,212.9

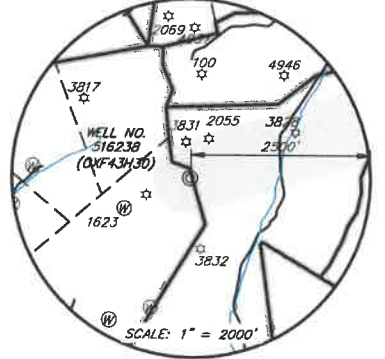
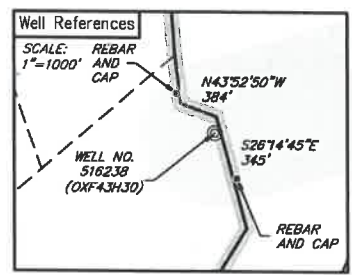


NO.	SURFACE OWNER
3	CATHY JEAN WETZEL, ET AL
4	I L (IKE) MORRIS
5	RANDY E. & WILLIAM LEE HUFF
8	ARNOLD DALE ALAN & BRYAN ALAN & DAVID LYNN GEE
9	JANICE S. MCCORMACK

NO.	ADJACENT OWNER
0	NONE



\*NOT FIELD VERIFIED, BASED ON THOMAS HICKMAN LEASE, RECORDED JUNE 13, 2003

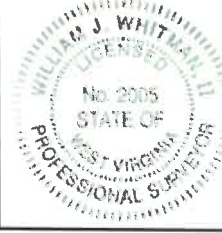


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  - WELL BOTTOM HOLE
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*[Signature]*



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DRAWING NO.: OXF43 Well Plat  
SCALE: 1" = 2000'  
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PROVEN SOURCE OF ELEVATION: GPS

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

DATE AUGUST 20, 20 20  
OPERATORS  
WELL NO. 516238 (OXF43H30)  
API WELL NO. 47 017 06746  
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WWW.ENCOMPASSSERVICES.COM PLOT DATE: 8/26/2020 CAD FILE: OXF\_43\_WELL\_PLAT-2020-08-20.DWG

12/24/2021



## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/3/2021
Job End Date:	5/30/2021
State:	West Virginia
County:	Doddridge
API Number:	47-017-06746-00-00
Operator Name:	EQT Production
Well Name and Number:	OXF43 30H
Latitude:	39.15700810
Longitude:	-80.79262970
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,731
Total Base Water Volume (gal):	9,042,768
Total Base Non Water Volume:	0



### Hydraulic Fracturing Fluid Composition:

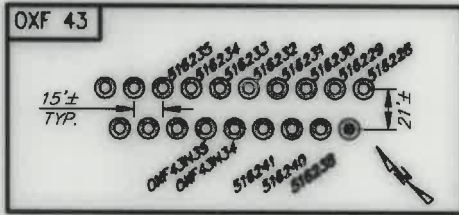
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	EQT	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.36600	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.49600	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	90.00000	0.01200	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00800	None
FR-9800	ChemStream	Friction Reducer	Copolymer of 2-propenamamide	Proprietary	30.00000	0.00500	None
FR-9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00200	None
HCl	US Well Services LLC	Acid	Hydrogen Chloride	7647-01-0	15.00000	0.00100	None
Clearal 268	ChemStream	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00100	None
AI-303	USWS	Acid Corrosion Inhibitor					

PERFORATION RECORD					
Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	05/05/2021	12,996	12,815	40	Marcellus
3	05/05/2021	12,796	12,615	40	Marcellus
4	05/06/2021	12,596	12,415	40	Marcellus
5	05/06/2021	12,396	12,215	40	Marcellus
6	05/06/2021	12,187	12,015	40	Marcellus
7	05/06/2021	11,982	11,801	40	Marcellus
8	05/06/2021	11,783	11,605	40	Marcellus
9	05/06/2021	11,587	11,409	40	Marcellus
10	05/07/2021	11,391	11,213	40	Marcellus
11	05/07/2021	11,195	11,017	40	Marcellus
12	05/07/2021	10,993	10,821	40	Marcellus
13	05/07/2021	10,797	10,625	40	Marcellus
14	05/07/2021	10,607	10,429	40	Marcellus
15	05/07/2021	10,411	10,233	40	Marcellus
16	05/07/2021	10,215	10,037	40	Marcellus
17	05/07/2021	10,019	9,860	40	Marcellus
18	05/08/2021	9,842	9,661	40	Marcellus
19	05/08/2021	9,642	9,461	40	Marcellus
20	05/08/2021	9,442	9,421	40	Marcellus
21	05/08/2021	9,242	9,061	40	Marcellus
22	05/08/2021	9,042	8,861	40	Marcellus
23	05/08/2021	8,842	8,661	40	Marcellus

Please insert additional copies of this page if additional rows/stages are needed.

516238 (OXF43H30)  
OXF43  
EQT Production Company

AS-DRILLED



**516238 (OXF43H30) Well Point Coordinates**

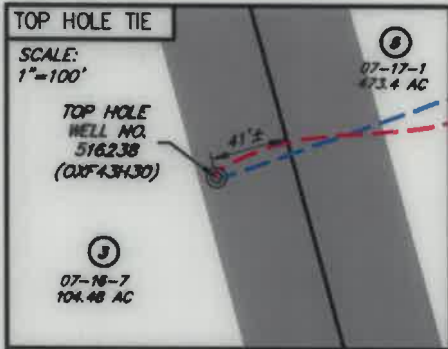
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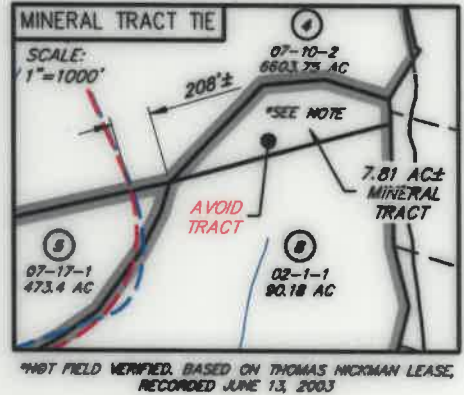
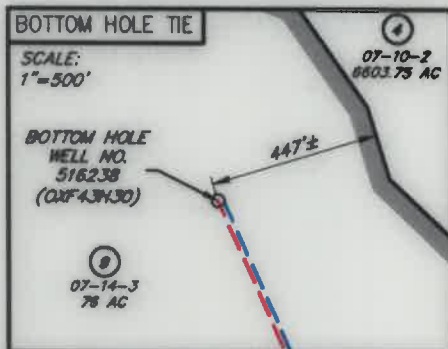
  

Bottom Hole Coordinates		
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NAD 83 UTM 17N (M)	N: 4,335,965.2	E: 518,268.5
NAD 83 S.P.C. (Pr.)	N: 247,789.0	E: 1,603,211.9

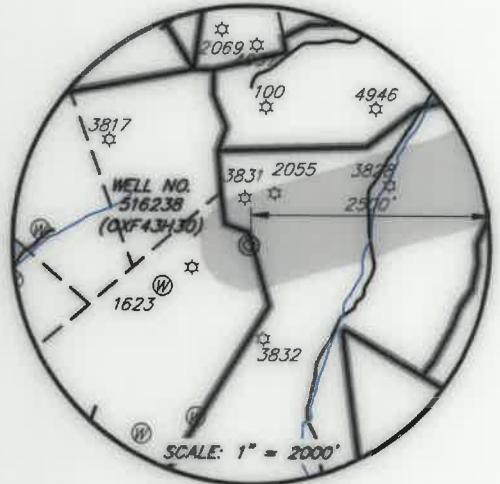
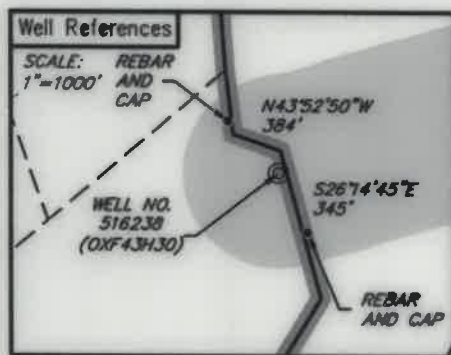


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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

DATE: AUGUST 20, 2020  
OPERATORS: 516238 (OXF43H30)  
WELL NO.: 516238 (OXF43H30)  
API WELL NO.: 47 017 06746  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION, ELEVATION: 1229' (As-Built Pad) WATERSHED: Middle Fork Hughes River QUADRANGLE: OXFORD  
DISTRICT: SOUTH WEST / COVE COUNTY: DODDRIDGE DATE: 12/24/2021  
SURFACE OWNER: Cathy Jean Wetzel, ET AL ACREAGE: 104.48± AC  
ROYALTY OWNER: Franklin Maxwell Heirs L. P. LEASE NO.: 107429 ACREAGE: 255± AC  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,647'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow  
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Pl., P.O. Box 280  
Canonsburg, PA 15317 Bridgeport, WV 26330

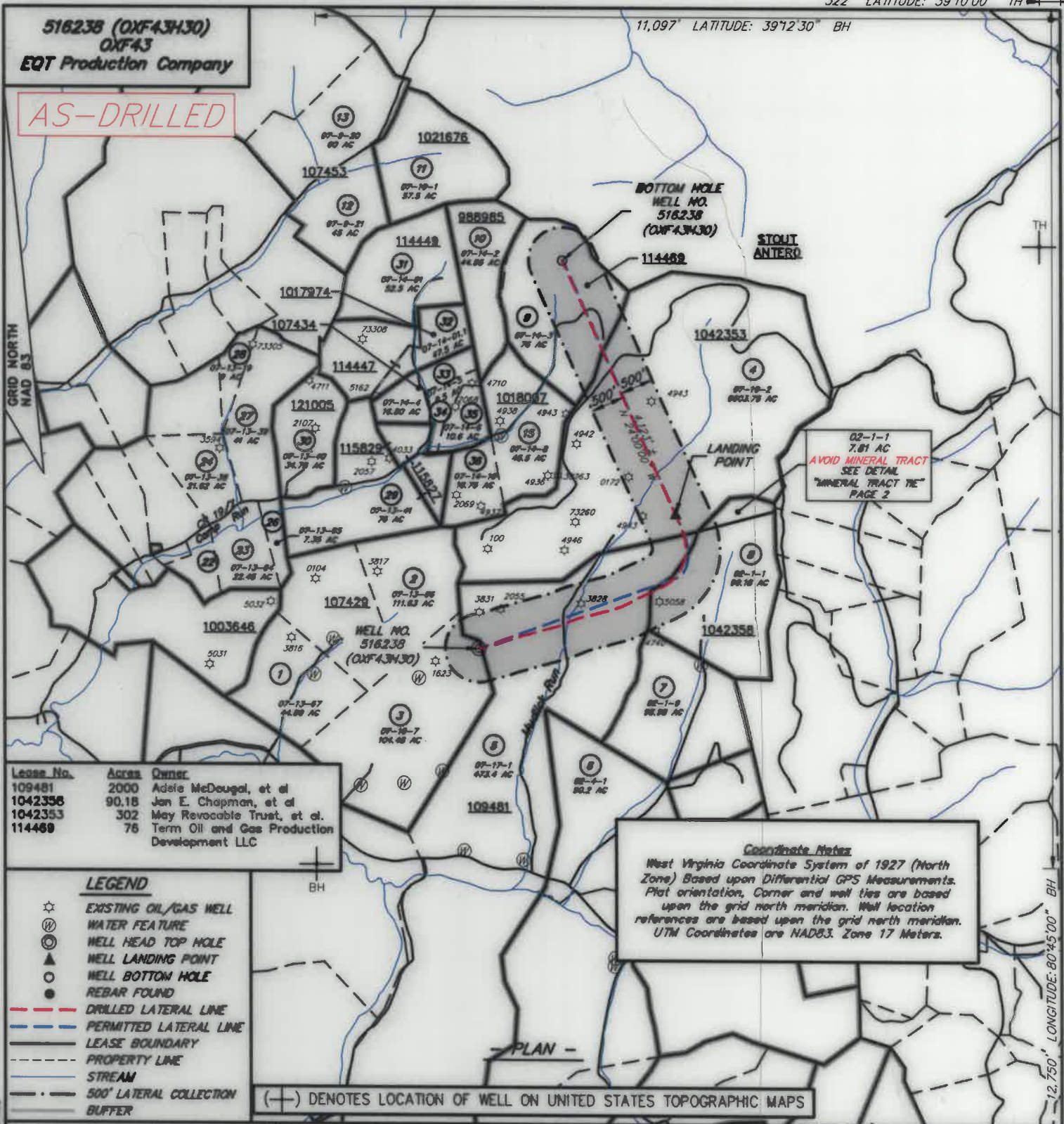
516238 (OXF43H30)  
OXF43  
EQT Production Company

AS-DRILLED

GRID NORTH  
NAD 83

3,514' LONGITUDE: 80°47'30" TH

12,750' LONGITUDE: 80°45'00" BH



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

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