



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

Thursday, April 23, 2020
WELL WORK PERMIT
Horizontal 6A / Drilling Deeper

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 516230
47-017-06741-00-00

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: 516230
Farm Name: CATHY JEAN WETZEL, ET AL
U.S. WELL NUMBER: 47-017-06741-00-00
Horizontal 6A Drilling Deeper
Date Issued: 4/23/2020

Promoting a healthy environment.

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: 516230 Well Pad Name: OXF43

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

4) Elevation, current ground: 1,229' (As-Built) Elevation, proposed post-construction: 1,229' (As-Built)

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

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6,647', 57', 2,951 psi

8) Proposed Total Vertical Depth: 6,657'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 12,057'

11) Proposed Horizontal Leg Length: 4,059'

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

13) Method to Determine Fresh Water Depths: Offset wells: 017-01623, 017-03817, 017-03831, 017-03828, 017-03832

14) Approximate Saltwater Depths: None expected - if encountered will be below 945'

15) Approximate Coal Seam Depths: 321'-322'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

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

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

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DAS
3-19-2020

WW-6B
(04/15)

API NO. 47-077-06741 **4701706741**
 OPERATOR WELL NO. 516230
 Well Pad Name: OXF43

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	26	New	A-500	85.6	40	40	49 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	605	559	624 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	P-110	40	5418	5288	2179 ft^3 / CTS
Production	5 1/2	New	P-110 CYHP	20	12057	12057	500' above intermediate casing
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination.	
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	26	30	.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	7900	3160	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	.361	14360	10112	Class A/H	1.04 - 2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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DAR
3-19-2020

WW-6B
(10/14)

API NO. 47- 017 - 06741
 OPERATOR WELL NO. 516230
 Well Pad Name: OXF43

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Continue drilling and complete a horizontal well in the Marcellus Formation. The well has been drilled to an approximate depth of 5430'. EQT is proposing to continue operations by kicking off and drilling the curve. Drill the lateral in the Marcellus. Cement casing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): N/A- site built

22) Area to be disturbed for well pad only, less access road (acres): N/A - site built

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: Calcium Chloride. Used to speed the setting of cement slurries
 Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.
 Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

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: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

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*Note: Attach additional sheets as needed.

DAF
 3-19-2020

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well
OXF43H30

516238(OXF43H30)

Drilling Objectives: Marcellus
County: Doddridge
Quad: Oxford
Elevation: 1242 KB
Surface location Northing: 241902.39 Easting: 1633402.15
Landing Point Northing: 241820.78 Easting: 1629095.40
Toe location Northing: 250051.23 Easting: 1625527.70
Recommended Azimuth 0 Degrees

TVD: 6647
 Recommended LP to TD: 0,000'

Recommended Gas Tests: 1800, 2050, 2600, Intm Csg. Pt., 3400, 4900, 5250, KOP. (Gas test at any mine void)
 Gas test during any trip or significant downtime while drilling the lateral section.

ESTIMATED FORMATION TOPS

Determined from OXF43 and OXF45 Pilot Hole Logs

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	382		FW @ 70,221,307,382, .	21	41
Waynesburg A	321	322	Coal	No past, present, or permitted mining.	123	179
Maxton	1084	1124	Sandstone	No SW present in shallow offset wells.	181	211
Big Lime	1960	2028	Limestone		266	411
Big Injun	2072	2104	Sandstone	Storage is NOT of concern at this location	361	451
Weir	2246	2372	Sandstone		462	532
Top Devonian	2446				561	716
Gantz	2446	2528	Silty Sand		706	829
Fifty foot	2528	2585	Silty Sand		956	1073
Thirty foot	2626	2662	Silty Sand			Base of Red Rock
Gordon	2668	2717	Silty Sand			
Forth Sand	2768	2835	Silty Sand			
Bayard	2948	3019	Silty Sand			
Warren	3282	3348	Silty Sand			
Speechley	3348	3853	Silty Sand			
Balltown A	3853	4211	Silty Sand			
Riley	4451	4827	Silty Sand			
Benson	4827	4921	Silty Sand			
Alexander	5129	5222	Silty Sand			
Int. csg pt	5272			Base of Offset Well Perforations at 5207' TVD		
Elks	5222	6305	Gray Shales and Silts			
Sonyea	6305	6455	Gray shale			
Middlesex	6455	6445	Shale			
Genesee	6445	6554	Gray shale interbedded			
Genesee	6554	6596	Black Shale			
Tully	6596	6609	Limestone			
Hamilton	6609	6627	Gray shale with some			
Marcellus	6627	6683	Black Shale			
Purcell	6658	6661	Limestone			
-Lateral Zone	6647			Start Lateral at 6647'		
Cherry Valley	6667	6670	Limestone			
Onondaga	6683		Limestone			

Target Thickness	57 feet
Max Anticipated Rock Pressure	2951 PSI

Comments:
 Note that this is a TVD prog for a horizontal well (azimuth of 0 degrees; target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.
 Intermediate casing point is recommended 50' beneath the Alexander to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.
 The estimated landing point TVD is 6647'; rig geologist may adjust landing point. After the well is landed, drill to reported bed dips/ geologists' recommendation. The geologic structure is unknown at this time.

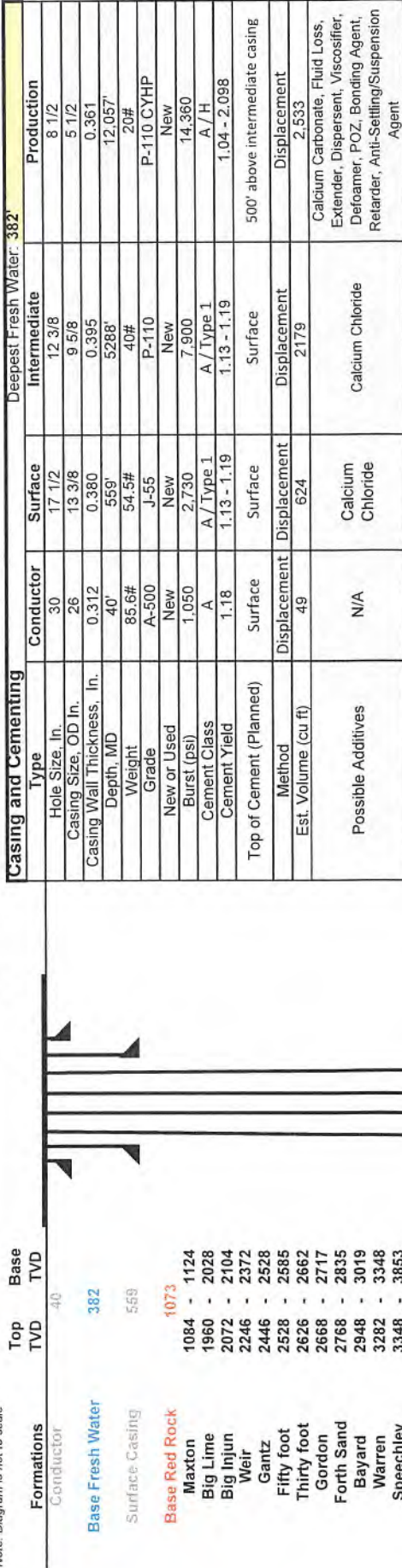
RECOMMENDED CASING POINTS

Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:	532	150' below freshwater
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:	5272	50' below Alexander
Production:	CSG OD	5 1/2	CSG DEPTH:	@ TD	

Well 516230(OXF43H22)
EQT Production
 Oxford Quad
 Doddridge County, WV

Azimuth 335
 Vertical Section 4881
 Enertia # 516230(OXF43H22)

Note: Diagram is not to scale



KOP @ 2103'

Formations	Top TVD	Base TVD
Conductor	40	
Base Fresh Water	382	
Surface Casing	559	
Base Red Rock	1073	
Maxton	1084	1124
Big Lime	1960	2028
Big Injun	2072	2104
Weir	2246	2372
Gantz	2446	2528
Fifty foot	2528	2585
Thirty foot	2626	2662
Gordon	2668	2717
Forth Sand	2768	2835
Bayard	2948	3019
Warren	3282	3348
Speechley	3348	3853
Balltown A	3853	4211
Riley	4451	4827
Benson	4827	4921
Alexander	5129	5222
Intermediate Casing	5288	
Sonyea	6305	6455
Middlesex	6455	6445
Genesee	6445	6554
Genesee	6554	6596
Tully	6596	6609
Hamilton	6609	6627
Marcellus	6627	6683
Production Casing	6647	
Onondaga	6683	

Land curve @ 6,647' TVD
 7,998' MD

Est. TD @ 6,647' TVD
 12,057' MD

4,059' Lateral

Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 2103'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

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4701706741

March 18, 2020

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

Re: Casing on 516230

Dear Mr. Brewer,

The 13-3/8" surface casing has been set at 559' KB, 177' below the deepest fresh water. The 9-5/8" intermediate string has been set at 5,288' KB, 66' below the base of the Alexander formation.

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Zavatchan', is written over a light blue circular stamp.

John Zavatchan
Landman - Permitting

Enc.

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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

March 18, 2014

Nabors Completion & Production Services Company
1380 Route 286 Hwy E #121
Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

- Type I (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.

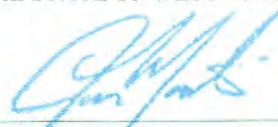
ORDER

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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WW-9
(4/16)

API Number 47 - 017 - 06741
Operator's Well No. 516230

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Middle Fork Hughes River Quadrangle Oxford

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

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

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? See Attached

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

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

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

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

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

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

Company Official Signature [Signature]
Company Official (Typed Name) John Zavatchan
Company Official Title Project Specialist - Permitting

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Subscribed and sworn before me this 18th day of March, 2020

[Signature] Notary Public

My commission expires October 25, 2023

Commonwealth of Pennsylvania - Notary Seal
Olivia Pishioneri, Notary Public
Allegheny County
My commission expires October 25, 2023
Commission number 1359968
Member, Pennsylvania Association of Notaries

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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EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed No additional disturbance Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
KY-31	40
Alsike Clover	5
Annual Rye	15

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

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: _____

[Handwritten Signature]

Comments: _____

Title: Oil & Gas Inspector

Date: 3-19-2020

Field Reviewed? Yes No

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EQT Production Water Plan												
Offsite Disposals for Unconventional Wells												
Facility Name	Address	Address 2	City	State	Zip	Phone	County	State	Permit Number			
CWS Trucking Co.	P.O. Box 391		Williamstown	WV	26187	740-516-3586	Noble	OH	3390			
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	OH	43215	740-516-5381	Washington	OH	8462			
LAD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	WV	USEPA WV 0014			
Triad Energy	PO Box 430		Reno	OH	45773	740-516-6021 740-374-2940	Noble	OH	4037			
Tri County Waste Water Management, Inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178 724-499-5647	Greene	PA	TC-1009			
King Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101		Lawrence	PA	PAR000029132			
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	WV	16330	304-326-6027	Harrison	WV	SWF-1032-98 Approval #100785WV			
Waste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	WV	26104	304-428-0602	Wood	WV	SWF-1025 WV-0109400			
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	OH	43903	740-543-4389	Jefferson	OH	06-08438			
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road		McClellandtown	PA	15458	724-437-7336	Fayette	PA	100419			
Westmoreland Sanitary Landfill	901 Tyrol Boulevard		Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277			
Austin Master Services	801 North 1st Street		Martins Ferry	OH	43935	740-609-3800	Belmont	OH	2014-541			
Belmont Solids Control	77505 Cadiz-New Athens Road		Cadiz	OH	43907	740-942-1739	Harrison	OH	2015-511			
Diversified Resources	3111 Braun Rd.		Belpre	OH	45714	740-401-0413	Washington	OH				
Buckeye Brine	23986 Airport Road		Coshocton	OH	43812	740-610-1512 724-591-4393	Coshocton	OH	34-031-27177 34-031-27178 34-031-27241			
Central Environmental Services	28333 West Belpre Pike		Coolville	OH	45723	304-488-0701	Athens	OH				
Nuverra - Nichols	10555 Veto Road		Belpre	OH	45714	330-232-5041	Washington	OH	34-119-2-8776			
Nuverra - Goff	9350 East Pike Road		Norwich	OH	43767	330-232-5041	Muskingum	OH	34-167-2-3862			
Nuverra - Wolf	5480 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-1893			
Nuverra - Pander	5310 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-3795			
Nuverra - AnnaRock D-1	35405 River Road		Fowler	OH	44418	330-232-5041	Trumbull	OH	34-155-2-2403			

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4701706741

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

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Site Specific Safety and Environmental Plan

EQT

OXF43 Pad

West Union

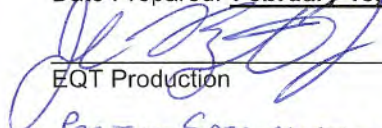
Doddridge County, WV

For Wells:

516228 516229 516230 516231 516232 516233 516234

516235 516238 516240 OXF43H32 OXF43H34 OXF43H35

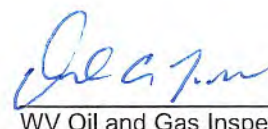
Date Prepared: February 18, 2019



EQT Production

PROJECT SPECIALIST - PERMITTING
Title

3/12/20
Date



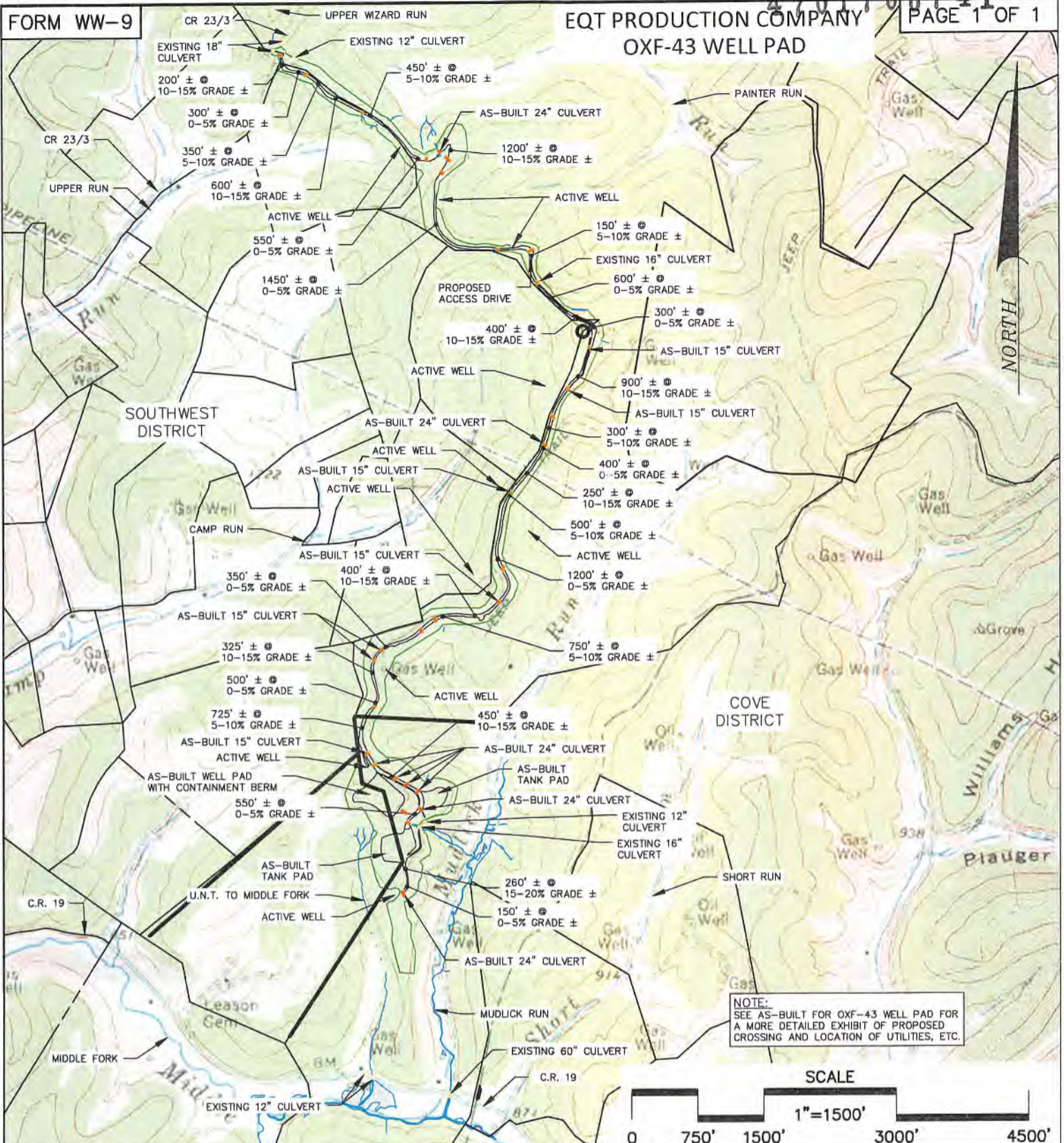
WV Oil and Gas Inspector

Oil & Gas Inspector
Title

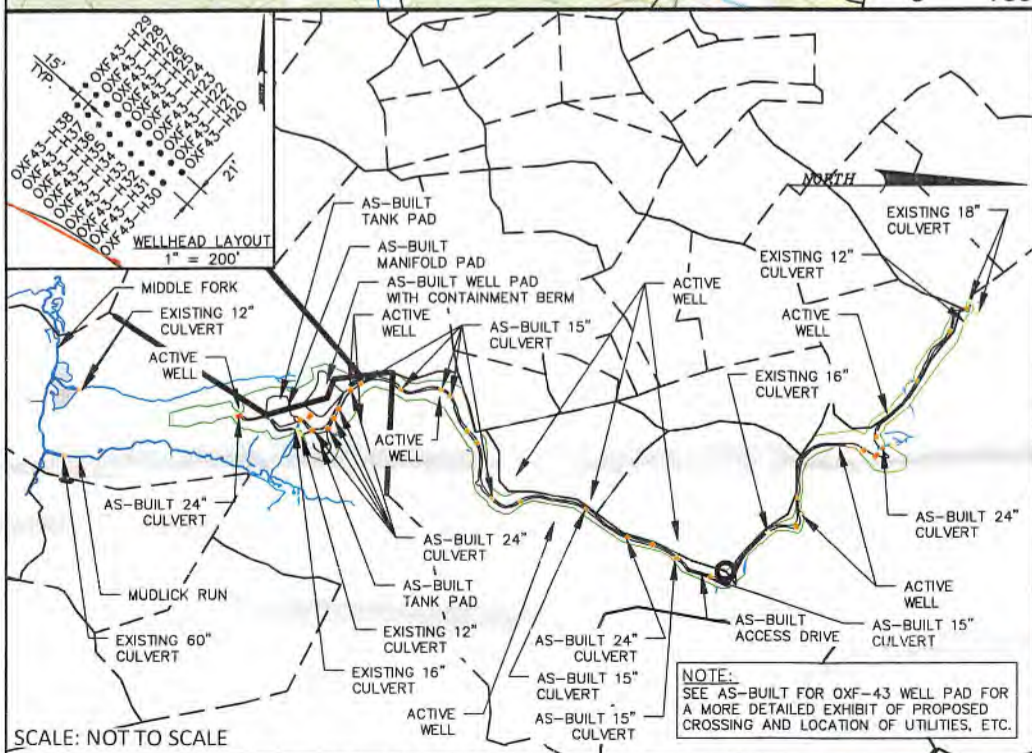
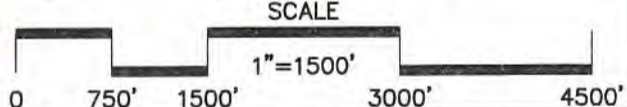
3-18-2020
Date

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Environmental Protection

OXF-43 WELL PAD



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



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

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

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

TEMPORARY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT AND STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

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

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

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

CONSTRUCTION AND RECLAMATION PLAN
OXF-43 WELL PAD

SOUTHWEST TAX DISTRICT

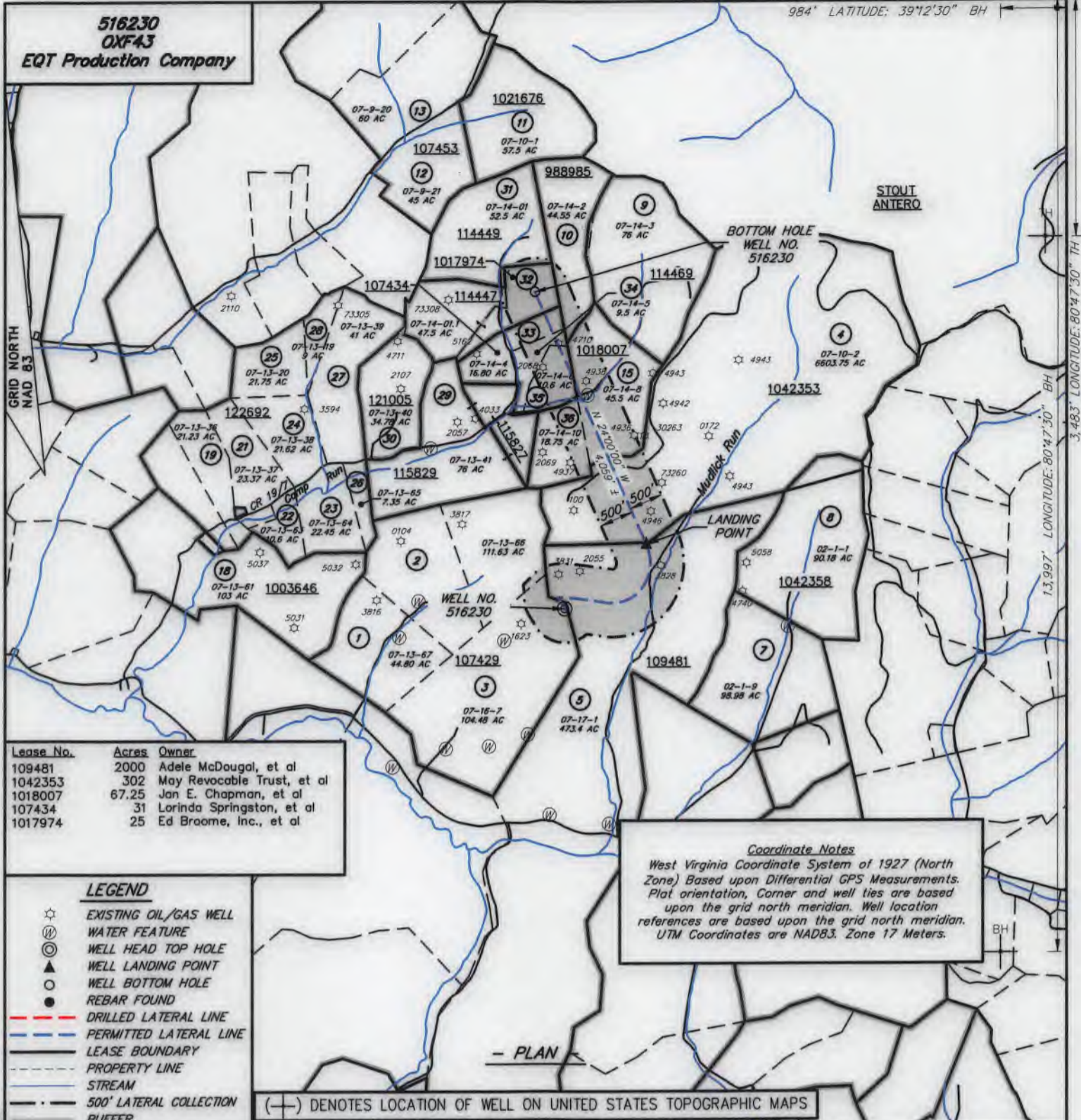
DODDRIDGE COUNTY, WV



RETTEW
RETTEW Associates, Inc.
One Robinson Plaza,
Suite 200
6600 Steubenville Pike,
Pittsburgh, PA 15205

DRAWN BY: DAW
DATE: 4/27/18
SCALE: AS NOTED

Handwritten signature and date: 3-19-2020



Lease No.	Acres	Owner
109481	2000	Adele McDougal, et al
1042353	302	May Revocable Trust, et al
1018007	67.25	Jan E. Chapman, et al
107434	31	Lorinda Springston, et al
1017974	25	Ed Broome, Inc., et al

LEGEND

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

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

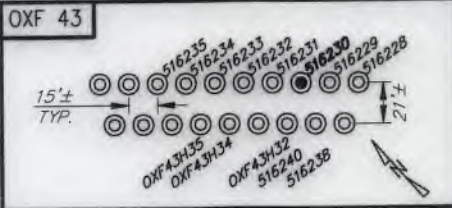
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

DATE: MARCH 11, 20 20
OPERATORS WELL NO.: 516230
API WELL NO.:
47 017 06741
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'

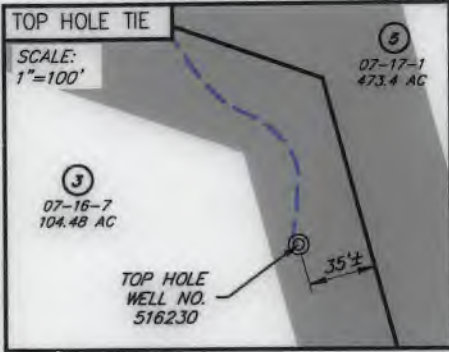
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Pl., P.O. Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

516230
OXF43
EQT Production Company



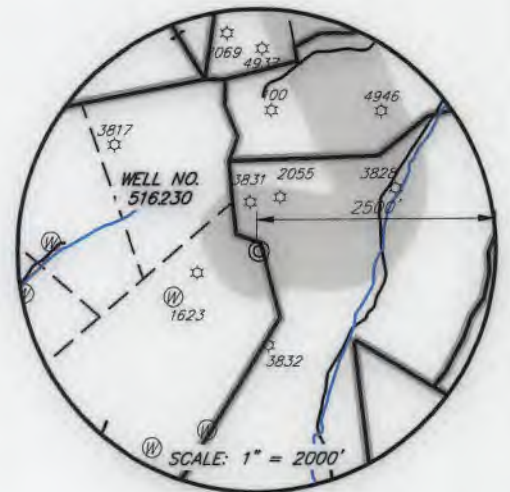
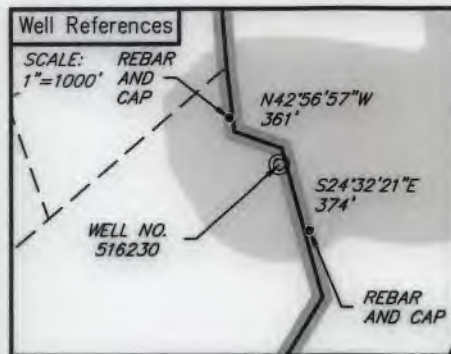
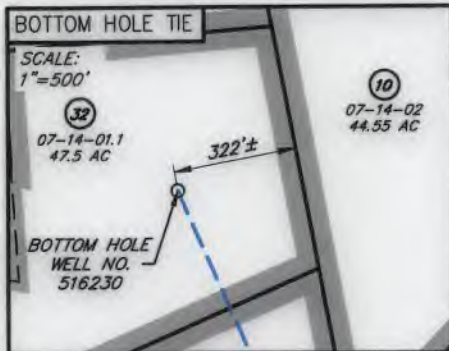
516230 - Well Point Coordinates

Top Hole Coordinates		
NAD 27 S.P.C. (Ft.)	N: 241,933.047	E: 1,633,399.443
NAD 27 GEO	LAT: 39.157006	LONG: 80.792815
NAD 83 UTM 17N (M)	N 4,334,230.0	E: 517,915.8
NAD 83 S.P.C. (Ft.)	N 241,968.4	E: 1,601,958.6
Landing Point Coordinates		
NAD 27 S.P.C. (Ft.)	N: 242,885.767	E: 1,634,610.508
NAD 27 GEO	LAT: 39.159669	LONG: 80.788593
NAD 83 UTM 17N (M)	N 4,334,526.4	E: 518,279.9
NAD 83 S.P.C. (Ft.)	N 242,921.1	E: 1,603,169.7
Bottom Hole Coordinates		
NAD 27 S.P.C. (Ft.)	N: 246,593.622	E: 1,632,959.727
NAD 27 GEO	LAT: 39.169784	LONG: 80.794602
NAD 83 UTM 17N (M)	N 4,335,647.6	E: 517,758.2
NAD 83 S.P.C. (Ft.)	N 246,628.9	E: 1,601,518.8



NO.	SURFACE OWNER
3	CATHY JEAN WETZEL, ET AL
4	I L (IKE) MORRIS
5	RANDY E. & WILLIAM LEE HUFF
15	WALTER RIESENBERG, ET AL
32	MICHAEL D. & SUSAN H. ZORN
33	WILLIAM A. ARMENTROUT & SANDRA MATHENY
34	WALTER RIESENBERG, ET AL
35	WALTER RIESENBERG, ET AL

NO.	ADJACENT OWNER
10	WILLIAM A. ARMENTROUT & SANDRA MATHENY
31	MICHAEL D. & SUSAN H. ZORN
36	WALTER RIESENBERG, ET AL



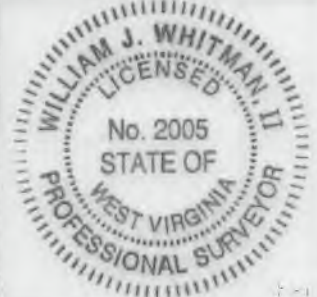
LEGEND

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



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[Signature]



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

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

DATE MARCH 11, 20 20
OPERATORS WELL NO. 516230
API WELL NO. 47 017 06741
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: 3/11/2020 CAD FILE: OXF 43_WELL PLAT-2020-03-10.DWG

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

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

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

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

See Attached

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

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

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

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

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

WW-6A1 attachment

Operator's Well No.

516230

OXF43H22

<u>Lease No. Grantor, Lessor, etc.</u>	<u>Grantee, Lessee, etc.</u>	<u>Royalty Book/Page</u>
107429	<u>Franklin Maxwell Heirs L.P. (current royalty owner)</u>	**
W. Brent Maxwell, et al (original lessor)	Fisher Oil Co.	LB23/337
Fisher Oil Co.	The Philadelphia Company of West Virginia	LB32/120
The Philadelphia Company of West Virginia	Pittsburgh & West Virginia Gas Company	DB87/90
Pittsburgh & West Virginia Gas Co.	Equitable Gas Company	DB121/303
Equitable Gas Company	Equitrans, Inc.	LB154/475
Equitrans, Inc.	Equitrans, L.P.	DB329/645
Equitrans, L.P.	Equitable Production-Eastern States, Inc.	LB 192/19
Equitable Production-Eastern States, Inc.	Equitable Production Company	CB281/346
Equitable Production Company	EQT Production Company	CB281/346
109481	<u>Adele McDougal, et al (current royalty owner)</u>	**
Jackson Leeson, et al (original lessor)	The Philadelphia Co. of West Virginia	LB21/76
The Philadelphia Co. of West Virginia	Pittsburgh & West Virginia Gas Co.	DB87/90
Pittsburgh & West Virginia Gas Co.	Equitable Gas Company	DB121/303
Equitable Gas Company	Equitrans, Inc.	LB154/475
Equitrans, Inc.	Equitrans, L.P.	DB329/645
Equitrans, L.P.	Equitable Production-Eastern States, Inc.	LB 192/19
Equitable Production-Eastern States, Inc.	Equitable Production Company	CB281/346
Equitable Production Company	EQT Production Company	CB281/346
1042353	<u>May Revocable Trust, et al (current royalty owner)</u>	**
S.W. Stout, et ux., et al. (Original Lessor)	The Carter Oil	LB 14/135
The Carter Oil	Hope Natural Gas Company	LB 42/411
Hope Natural Gas Company	Consolidated Gas Supply Corporation	DB 143/345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	LB 135/583
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	DB 328/398
CNG Transmission Corporation	CNG Development Company	DB 139/41
CNG Development Company	CNG Producing Company	CB 1096/124 (Delaware)
CNG Producing Company		CB 82/07
Dominion Exploration and Production Inc	Dominion Exploration & Production, Inc.	(Delaware)
CONSOL Energy Holdings LLC VI	Consol Energy Holdings LLC VI	DB 293/252
CONSOL Gas Company	CONSOL Gas Company	DB 293/252
CNX Gas Company LLC	CNX Gas Company LLC	DB 292/469
Antero Resources	Antero Resources	DB 387/180
	EQT Production Company	DB 429/585
1018007	<u>Jan E. Chapman, et al. (current royalty owner)</u>	**
Jan E. Chapman	EQT Production Company	DB 467/576
107434	<u>Lorinda Springston, et al (current royalty owner)</u>	**
Alexander Adams, et ux, et al.	Sidney W. Jones	LB 22/268
Sidney W. Jones	Fisher Oil Co. & C.D. Harrington	LB 22/434
Fisher Oil Co. & C.D. Harrington	Philadelphia Company of WV	LB 24/64
Philadelphia Company of WV	Pittsburgh & WV Gas Company	LB 32/253
Pittsburgh & WV Gas Company	Equitable Gas Company	DB 125/473
Equitable Gas Company	Equitrans, Inc.	DB 154/475
Equitrans, Inc.	Equitrans, LP	DB 329/645

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Environmental Protection

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Equitrans, LP
Equitable Production-Eastern States, Inc.
Equitable Production Company

Equitable Production - Eastern States, Inc.
Equitable Production Company
EQT Production Company

DB 192/19
CB 281/346
CB 281/346

1017974 Ed Broome, Inc., et al (current royalty owners)

Carlton M. Matheny & Patricia M. Matheny, et al.

EQT Production Company

**

DB 431/60

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

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4701706741



Where energy meets innovation.™

EQT Production Company
400 Woodcliff Drive
Canonsburg, PA 15317
www.eqt.com

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

March 19, 2020

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

Re: 516230 Gas Well
Permit Number 47-017-06741
Southwest District, Doddridge County

Dear Mr. Brewer,

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Zavatchan'.

John Zavatchan
Landman - Permitting

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WV Department of
Environmental Protection

WW-6AC
(1/12)

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

Date of Notice Certification: 03/18/2020

API No. 47- 017 - 06741
Operator's Well No. 516230
Well Pad Name: OXF43

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>517915.8</u>
County: <u>Doddridge</u>		Northing: <u>4334230.0</u>
District: <u>South West/Cove</u>	Public Road Access: <u>Rt. 20</u>	
Quadrangle: <u>Oxford</u>	Generally used farm name: <u>Cathy Jean Wetzel, et. al.</u>	
Watershed: <u>Middle Fork Hughes River</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p 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 checked="" type="checkbox"/> RECEIVED</p>
--	--

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Office of Oil and Gas
MAR 19 2020

Required Attachments:

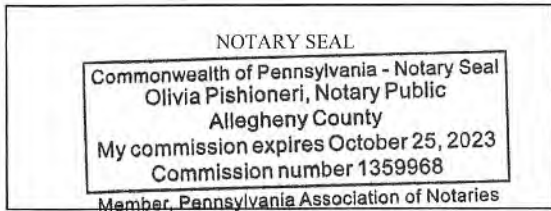
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

WV Department of
Environmental Protection

Certification of Notice is hereby given:

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

Well Operator:	<u>EQT Production Company</u>	Address:	<u>400 Woodcliff Drive</u>
By:	<u>John Zavatchan</u>		<u>Canonsburg, PA 15317</u>
Its:	<u>Project Specialist - Permitting</u>	Facsimile:	<u>724-743-4681</u>
Telephone:	<u>724-746-9073</u>	Email:	<u>jzavatchan@eqt.com</u>



Subscribed and sworn before me this 19th day of March 2020
Olivia Pishioneri Notary Public
 My Commission Expires October 25, 2023

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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 MAR 19 2020
 WV Department of
 Environmental Protection

WW-6A
(9-13)

API NO. 47- 017 - 06741
OPERATOR WELL NO. 516230
Well Pad Name: OXF43

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: 12/19/2019 Date Permit Application Filed: 12/19/2019

Notice of:

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

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

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

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

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

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

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

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

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

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

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

*Please attach additional forms if necessary

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Surface Owners:

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

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

WILLIAM LEE HUFF
826 ORANGE AVENUE
CORONADO , CA 92118

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

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

I.L. MORRIS
PO BOX 397
GLENVILLE, WV

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

MATHEW H. COPELAND
1500 HAYSTACK LANE
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SANDRA MATHENY ARMENTROUT AND WILLIAM A. ARMENTROUT
851 MACE ST.
ELKVIEW, WV 25071

WILLIAM LEE HUFF
826 ORANGE AVENUE
CORONADO , CA 92118

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4701706741

Coal Owner

Adele McDougal
213 W. High Street
Harrisville WV 26362

Franklin Maxwell Heirs Ltd Partnership #1
P.O.Box 2395
Buchannon WV 26201

Katherine Foster Leggett
1625 Stonehenge Rd
Charleston WV 25314

Lois L McKain
4141 S. Braeswood Blvd. Apt 224
Houston TX 77009

Master Mineral Holdings II LP
P.O.Box 10886
Midland TX 79702

William Lee Huff c/o Joye E Huff
826 Orange Ave.
Coronado CA 92118

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WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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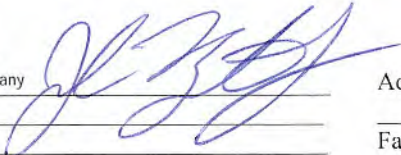
WV Department of
Environmental Protection

WW-6A
(8-13)

4701706741
API NO. 47- 017 - 06741
OPERATOR WELL NO. 516230
Well Pad Name: OXF43

Notice is hereby given by:

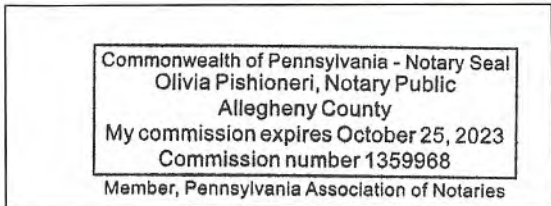
Well Operator: EQT Production Company
Telephone: 724-746-9073
Email: jzavatchan@eqt.com



Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Facsimile: 724-743-4681

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 deprivacyofficer@wv.gov.



Subscribed and sworn before me this 19th day of March 2020.
Olivia Pishioneri Notary Public
My Commission Expires October 25, 2023

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WV Department of
Environmental Protection

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: 10/25/2019 **Date Permit Application Filed:** 12/19/2019

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 List Name: _____
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: West Virginia UTM NAD 83 Easting: 517915.83
County: Doddridge Northing: 4334229.97
District: Southwest / Cove Public Road Access: Rt. 20
Quadrangle: Oxford Generally used farm name: Cathy Jean Wetzel, et. al.
Watershed: Middle Fork Hughes River

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(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: EQT Production Company Authorized Representative: John Zavatchan
Address: 400 Woodcliff Drive Address: 400 Woodcliff Drive
Canonsburg, PA 15317 Canonsburg, PA 15317
Telephone: 724-746-9073 Telephone: 724-746-9073
Email: jzavatchan@eqt.com Email: jzavatchan@eqt.com
Facsimile: 724-743-4681 Facsimile: 724-743-4681

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

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

WILLIAM LEE HUFF
826 ORANGE AVENUE
CORONADO , CA 92118

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

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MOUNT CLARE , WV 26408

I.L. MORRIS
PO BOX 397
GLENVILLE, WV

Janice S. McCormack
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851 MACE ST.
ELKVIEW, WV 25071

WILLIAM LEE HUFF
826 ORANGE AVENUE
CORONADO , CA 92118

**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: 12/18/2019 **Date Permit Application Filed:** 12/19/2019

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

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

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

Name: See Attached List Name: _____
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>West Virginia</u>	UTM NAD 83	Easting:	<u>517915.8</u>
County:	<u>Doddridge</u>		Northing:	<u>4334230.0</u>
District:	<u>South West/Cove</u>	Public Road Access:		<u>Rt. 20</u>
Quadrangle:	<u>Oxford</u>	Generally used farm name:		<u>Cathy Jean Wetzel, et. al.</u>
Watershed:	<u>Middle Fork Hughes River</u>			

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>400 Woodcliff Drive</u>
Telephone:	<u>724-746-9073</u>		<u>Canonsburg, PA 15317</u>
Email:	<u>jzavatchan@eqt.com</u>	Facsimile:	<u>724-743-4681</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:

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WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III
Secretary of Transportation/
Commissioner of Highways

November 7, 2019

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

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

Subject: DOH Permit for the OXF43 Well Site, Doddridge County

OXF43H20	OXF43H21	OXF43H22	OXF43H23	OXF43H24
OXF43H25	OXF43H26	OXF43H27	OXF43H28	OXF43H29
OXF43H30	OXF43H31	OXF43H32	OXF43H33	OXF43H34
OXF43H35	OXF43H36	OXF43H37		

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 County Rt. 23/3 SLS in Doddridge County.

This operator is in compliance with §22-6A-20 of the WV Code. 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 October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: John Zavatchan
EQT Production Company
CH, OM, D-4
File

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Office of Oil and Gas
MAR 19 2020
WV Department of
Environmental Protection

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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MAR 19 2020
WV Department of
Environmental Protection

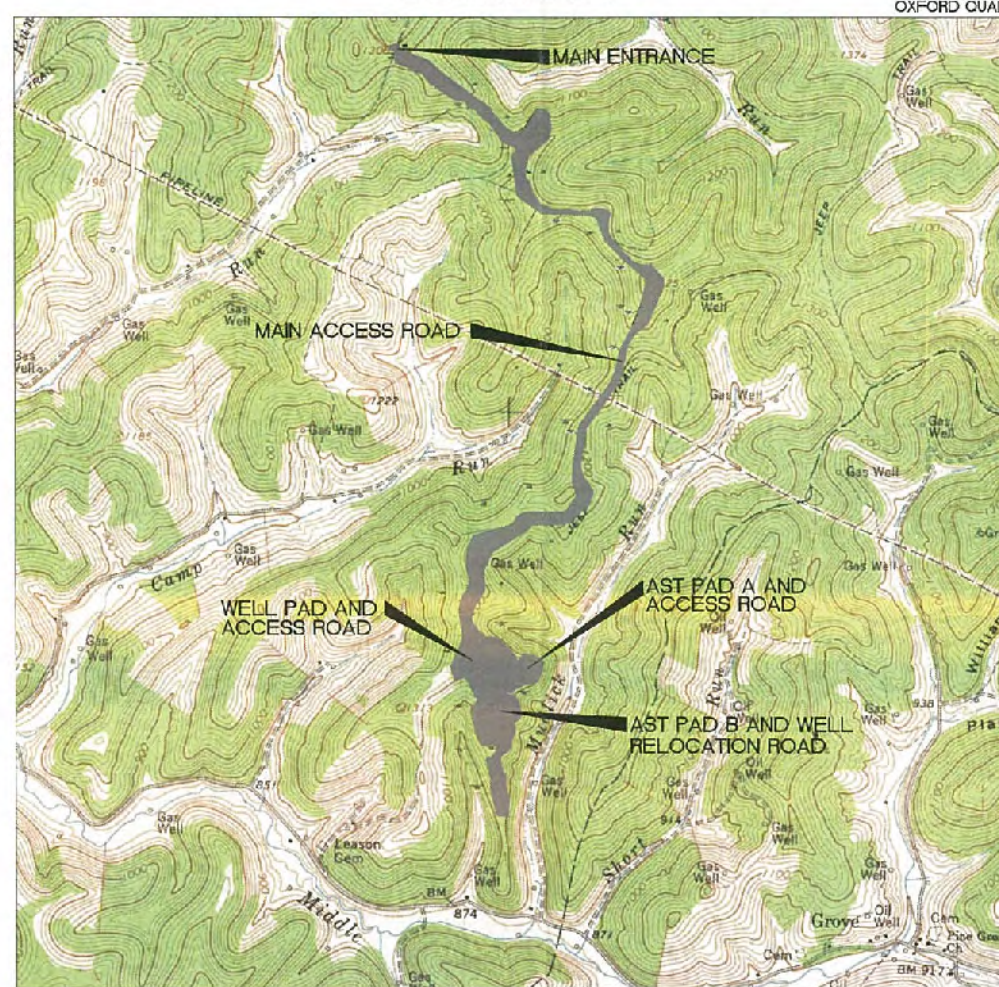
OXF43 AS-BUILT SITE PLAN EQT PRODUCTION COMPANY

PERMITTED WELLS: API# 47-017-06739, 47-017-06740, 47-017-06741, 47-017-06742,
47-017-06743, 47-017-06744, 47-017-06745, 47-017-06746, 47-017-06747, 47-017-06748
AND 47-017-06749

PROPOSED WELL NUMBERS: OXF43H28, OXF43H29, OXFH33, OXF43H34, OXF43H35,
OXF43H36, OXF43H37, AND OXF43H38

SITUATE ON WATERS OF MIDDLE FORK OF THE SOUTH FORK OF HUGHES RIVER IN
SOUTHWEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

LOCATION MAP



PROJECT INFORMATION

PROJECT NAME: 8452 OXF 43 AS-BUILT

SURFACE OWNERS:

RANDY E. HUFF DECEDENTS TRUST B, ET AL
LOT 4
APN# 17-17
D.B. 247 PG. 206

WETZEL, CATHY JEAN, ET AL
APN# 07-19-7
D.B. 277 PG. 165

GREATHOUSE, CHARLES R. & CRYELYN G.
APN# 07-13-01
D.B. 332 PG. 340

MORRIS, I. L.
APN# 07-13-2
D.B. 230 PG. 397

COPELAND, MATHEW H.
APN# 07-10-1
D.B. 357 PG. 5

OIL AND GAS ROYALTY OWNER:

FRANKLIN MAXWELL HEARST
DISTRICT(S): SOUTHWEST / COVE
DODDRIDGE COUNTY, WV
TOTAL PROPERTY AREA: 2852 ACRES

LOCATION COORDINATES

OXF43 SITE ENTRANCE
LATITUDE: 39.180252 LONGITUDE: -80.797044 (NAD 83)
NORTHING: 4,335,795.7 EASTING: 617,529.7 (UTM NAD 83 METERS)

OXF43 CENTER OF WELL PAD
LATITUDE: 39.157175 LONGITUDE: -80.792576 (NAD 83)
NORTHING: 4,334,230.2 EASTING: 617,521.1 (UTM NAD 83 METERS)

SITE DISTURBANCE COMPUTATIONS

MAIN ACCESS ROAD = 36.92 ACRES
WELL PAD AND ACCESS ROAD = 11.16 ACRES
AS1 PAD A AND ACCESS ROAD = 6.37 ACRES
AS1 PAD B AND WELL RELOCATION ROAD = 9.09 ACRES

GENERAL DESCRIPTION

THE OXF 43 PAD AND AS1 PADS ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS

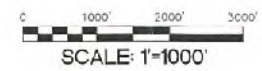
**WVDEP OOG
ACCEPTED AS-BUILT**

WJL 1/29/2019

SURVEY NOTE

1. THE CERTIFICATION OF THIS DRAWING APPLIES ONLY TO THE TOPOGRAPHIC MAPPING AS DERIVED FROM THE FIELD DATA OBTAINED AT THE TIME OF THE FIELD SURVEY ON 11-17-15, 11-25-15, 12-23-15, 12-14-16, 12-19-16, 12-20-16, 01-11-16, 02-25-16, 02-11-16, 02-25-16, 02-10-17, 07-05-17, 07-05-17, 07-18-17, 08-01-17, 08-08-17, AND 02-09-18

MISS Utility of West Virginia
1-800-246-4848
West Virginia State Law
(Section XIV, Chapter 24-C)
Requires that you call two business days before you dig in the state of West Virginia.
IT'S THE LAW!



LIST OF DRAWINGS

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

LOD by property owner

Property Owner	Parcel #	LOD (Acres)	Wooded Area (Acres)
Randy E. Huff Decedents Trust B (owns half)	7-17-1	23.58	21.5
William Lee Huff (owns half)			
Wetzel, Cathy Jean, ET AL	7-16-7	8.12	7.8
Morris, I.L.	7-10-2	41.66	34.7
Copeland, Matthew H.	7-10-1	4.30	3.7
Total Area		77.67	67.6

LOD by project area

Description	LOD (Acres)	Wooded Area (Acres)
Main Access Road, Sta. 0+00 to 13+44.27	45.93	35.4
Pad Access Road, Sta. 0+00 to 17+00	5.05	4.8
Existing Well Road Rehabilitation 0+00 to 4+00, 15+00 to 24+27	3.32	2.9
Well Pad	8.34	7.7
Tank Pad A	3.27	3.2
Tank Pad B	4.47	3.5
Waste and Spill	7.23	7.0
Total Area	77.67	67.5

LEGEND

- PROPERTY LINES
- LIMITS OF DISTURBANCE
- EX ROAD EDGE OF GRAVEL/DIRT
- EX ROAD CENTERLINE
- EX DITCHLINE
- EX CULVERT
- EX GASLINE
- RIG FOOTPRINT
- EDGE OF GRAVEL PAD
- EDGE OF BERM
- ORANGE CONSTRUCTION FENCE
- 12" COMPOST FILTER SOCK
- 18" COMPOST FILTER SOCK
- 24" COMPOST FILTER SOCK
- TOP BERM
- GRAVEL
- RIP RAP
- ROCK CONSTRUCTION ENTRANCE
- ORIGINAL GROUND 2' CONTOURS
- AS-BUILT 2' CONTOURS
- AS-BUILT WELL LOCATIONS
- PROPOSED WELL LOCATIONS
- ADJACENT WELL LOCATIONS
- MATCHLINE
- EX FENCING
- EX GATE
- EX STRUCTURE
- EX PIPELINE MARKER
- EX OVERHEAD UTILITY
- EX POWER POLE
- EX GUY WIRE
- EX CASLINE

REVISION	DATE	DESCRIPTION	BY
1	03/23/18	AS-BUILT UPDATE	ALH

SLS

Land & Energy Development
www.slsenergy.com

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OXF43 AS-BUILT SITE PLAN

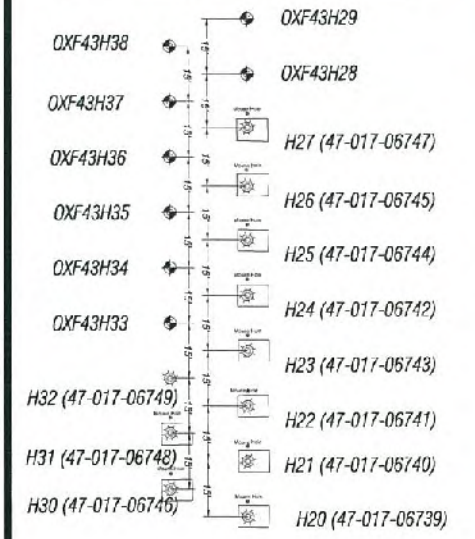
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DATE: 10/03/2017	EQT	SCALE: 1"=1000'	DESIGNED BY: T.N.
FILE NO: 8452	SHEET: 1 OF 16	DATE: 03/23/18	

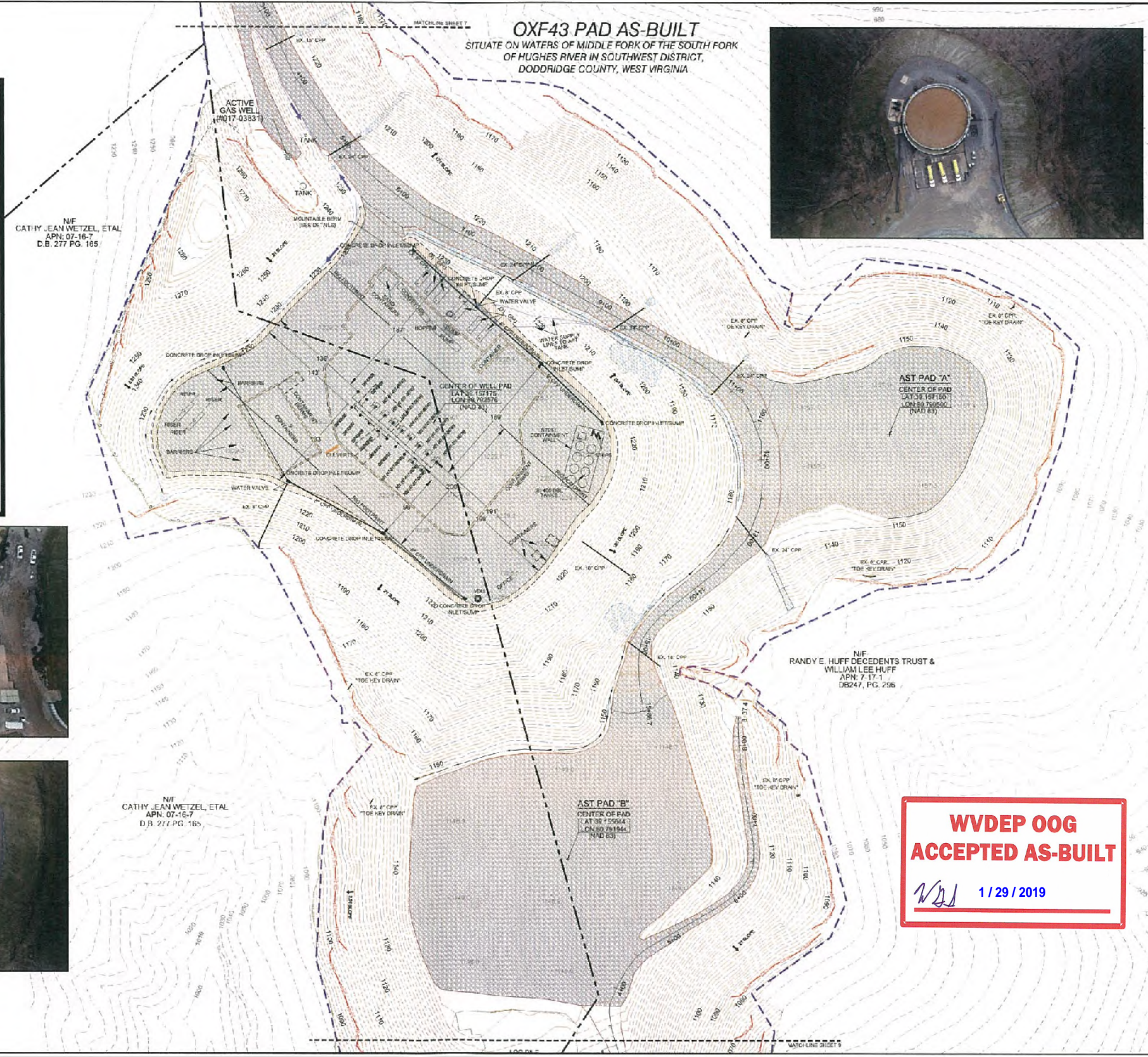
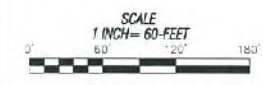
July 14/18

GRID NORTH AND SURVEYED ELEVATIONS SHOWN HEREON WERE ESTABLISHED BY DGPS SURVEY GRADE.

WELL ELEVATION DETAIL



SCALE - 1" = 20'



**WVDEP OOG
ACCEPTED AS-BUILT**

WJL 1/29/2019

REVISION	DATE	DESCRIPTION	BY
1	04/23/18	AS BUILT UPDATE	KUH

EOT
Where energy meets innovation.

SLS
Land & Energy Development
P.O. Box 101, Hurricane, West Virginia 26037

THIS DOCUMENT WAS PREPARED BY SLS LAND & ENERGY DEVELOPMENT FOR EOT

**OXF43
PAD AS-BUILT**

THIS DOCUMENT WAS PREPARED BY SLS LAND & ENERGY DEVELOPMENT FOR EOT PRODUCTION COMPANY

DATE: 04-06-2018
SCALE: 1"=60'
DESIGNED BY: TW
FILE NO: 8458
SHEET: 10 OF 15
B02 OF 13 (of 13) 5/16/18 10:16:18 AM