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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

March 12, 2015

**WELL WORK PERMIT**

**Horizontal 6A Well**

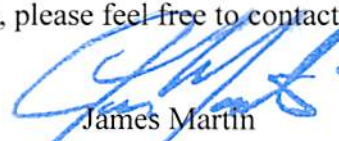
This permit, API Well Number: 47-1706706, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 515939

Farm Name: COGAR, ARDEN & CAROL

**API Well Number: 47-1706706**

**Permit Type: Horizontal 6A Well**

Date Issued: 03/12/2015

**Promoting a healthy environment.**

**12/12/2025**

## PERMIT CONDITIONS

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

### CONDITIONS

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

12/12/2025

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Production Company 306686 017 7 526  
Operator ID County District Quadrangle

2) Operator's Well Number: 515939 Well Pad Name: OXF44

3) Farm Name/Surface Owner: Arden & Carol Cogar Public Road Access: 52/3

4) Elevation, current ground: 1,170.0 Elevation, proposed post-construction: 1,170.0

5) Well Type: (a) Gas ☒ Oil ☐ Underground Storage ☐  
Other ☐

(b) If Gas: Shallow ☒ Deep ☐  
Horizontal ☐

6) Existing Pad? Yes or No: Yes

DCW  
12-23-2014

7) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):

Target formation is Marcellus at a depth of 6579 with the anticipated thickness to be 54 feet and anticipated target pressure of 2951 PSI

8) Proposed Total Vertical Depth: 6579

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 10,647

11) Proposed Horizontal Leg Length: 2,880

12) Approximate Fresh Water Strata Depths: 4, 93, 130, 244, 285, 328, 596, 919, & 1139

13) Method to Determine Fresh Water Depth: By offset wells

14) Approximate Saltwater Depths: 1,821

15) Approximate Coal Seam Depths: None Reported

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

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: \_\_\_\_\_

Received  
Office of Oil & Gas  
JAN 06 2015

12/12/2025

WW -6B  
(3/13)

API NO. 47 - 017 - 06706  
 OPERATOR WELL NO. 515939  
 Well Pad Name: OXF44

**CASING AND TUBING PROGRAM**

**4701706706**

18)

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill- up (Cu.Ft.)
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	MC-50	54	1,153	1,153	996 C.T.S.
Coal	-	-	-	-	-	-	-
Intermediate	9 5/8	New	MC-50	40	3,031	3,031	1,197 C.T.S.
Production	5 1/2	New	P-110	20	10,647	10,647	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	-	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	* See Note 2	1.21
Coal						
Intermediate	9 5/8	12 3/8	0.395	3,950	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing						
Liners						

**Packers**

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

Note 1: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

Note 2: Reference Variance 2014-17. (Attached)

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Office of Oil & Gas  
JAN 06 2015

12/12/2025

4701706706

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

Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an approximate depth of 5026'. Then kick off the horizontal leg into the Marcellus using a slick water frac.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated treating pressures are expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): ±15.7 ac

22) Area to be disturbed for well pad only, less access road (acres): ±6.2 ac

23) Describe centralizer placement for each casing string.

- Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers – One at the shoe and one spaced every 500'.
- Production: One spaced every 1000' from KOP to Int csg shoe

24) Describe all cement additives associated with each cement type. **Surface (Type 1 Cement):** 0-3% Calcium Chloride

Used to speed the setting of cement slurries.

0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.

**Intermediate (Type 1 Cement):** 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.

**Production:**

**Lead (Type 1 Cement):** 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.

0.3% CFR (dispersant). Makes cement easier to mix.

**Tail (Type H Cement):** 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.

0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.

60 % Calcuim Carbonate. Acid solubility.

0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.

25) Proposed borehole conditioning procedures. **Surface:** Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating

one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5

minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on

and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.

**Intermediate:** Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to enhance hole cleaning use a soap sweep or increase injection rate & foam concentration.

**Production:** Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.

Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

\*Note: Attach additional sheets as needed.



4701706706

December 10, 2014

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

Re: Casing plan on Wells (OXF44)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 1153' KB, below the Fresh Water zone. We will set the 9-5/8" intermediate string at 3031' KB, below the base of the Bayard formation. This casing plan is the same at the previous wells drilled by EQT on this pad.

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

Sincerely,

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

Vicki Roark  
Permitting Supervisor

Enc.

Received  
Office of Oil & Gas  
DEC 18 2014

470 170 6706



west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

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 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "I" 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

Promoting a healthy environment.

Received  
Office of Oil & Gas

March 18, 2014

12/12/2025



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west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
(304) 926-0450  
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Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
dep.wv.gov

**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.b. 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 "I" 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

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James Martin, Chief  
Office of Oil and Gas

Well Schematic  
EQT Production

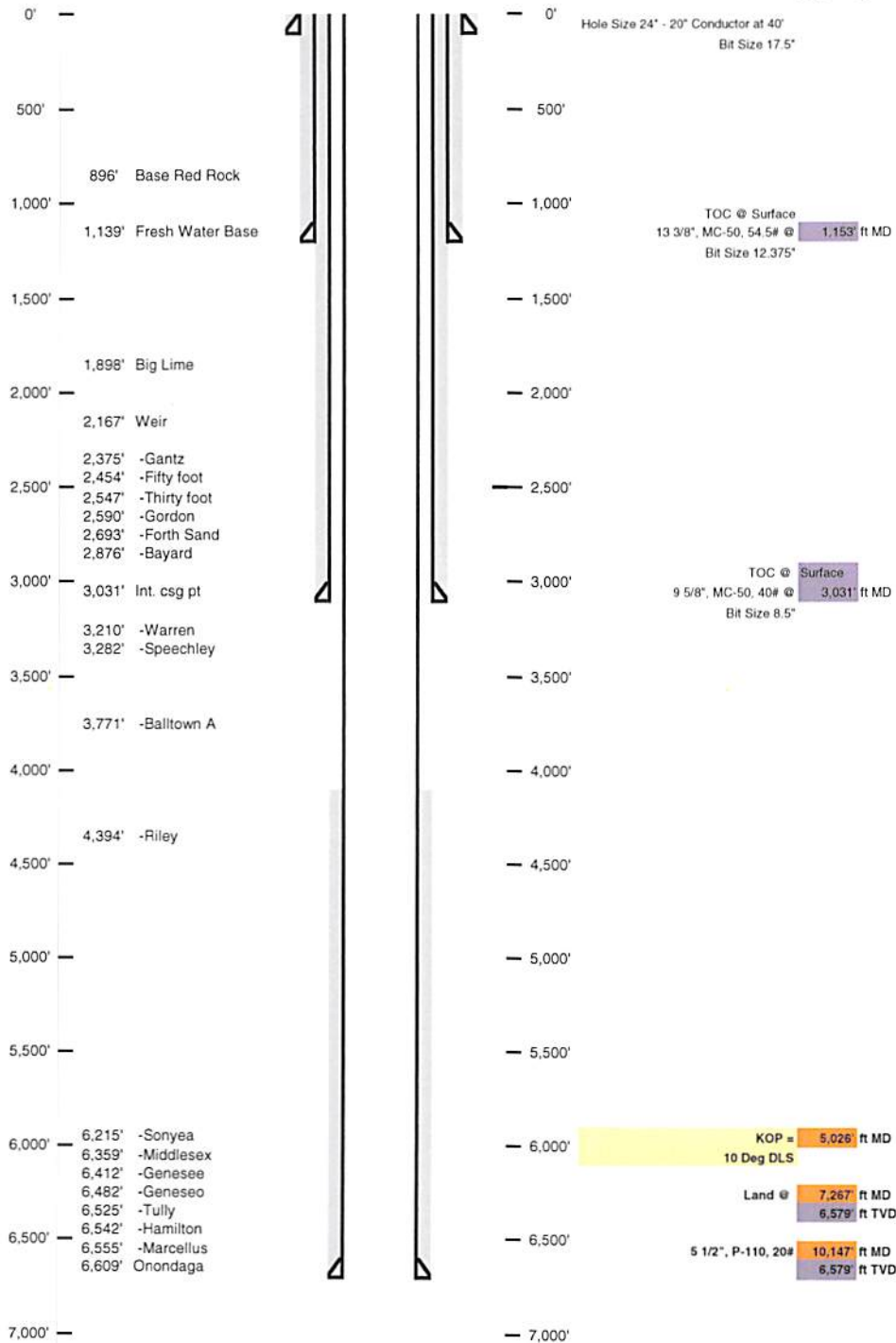
Well Name  
County  
State

515939 (OXF44H6)  
Doddridge  
West Virginia

Elevation KB:  
Target  
Prospect  
Azimuth  
Vertical Section

1183  
Marcellus  
335  
3278

4701706706



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Office of Oil & Gas

DEC 18 2014

12/12/2025

Well 515939 (OXF44H6)

EQT Production

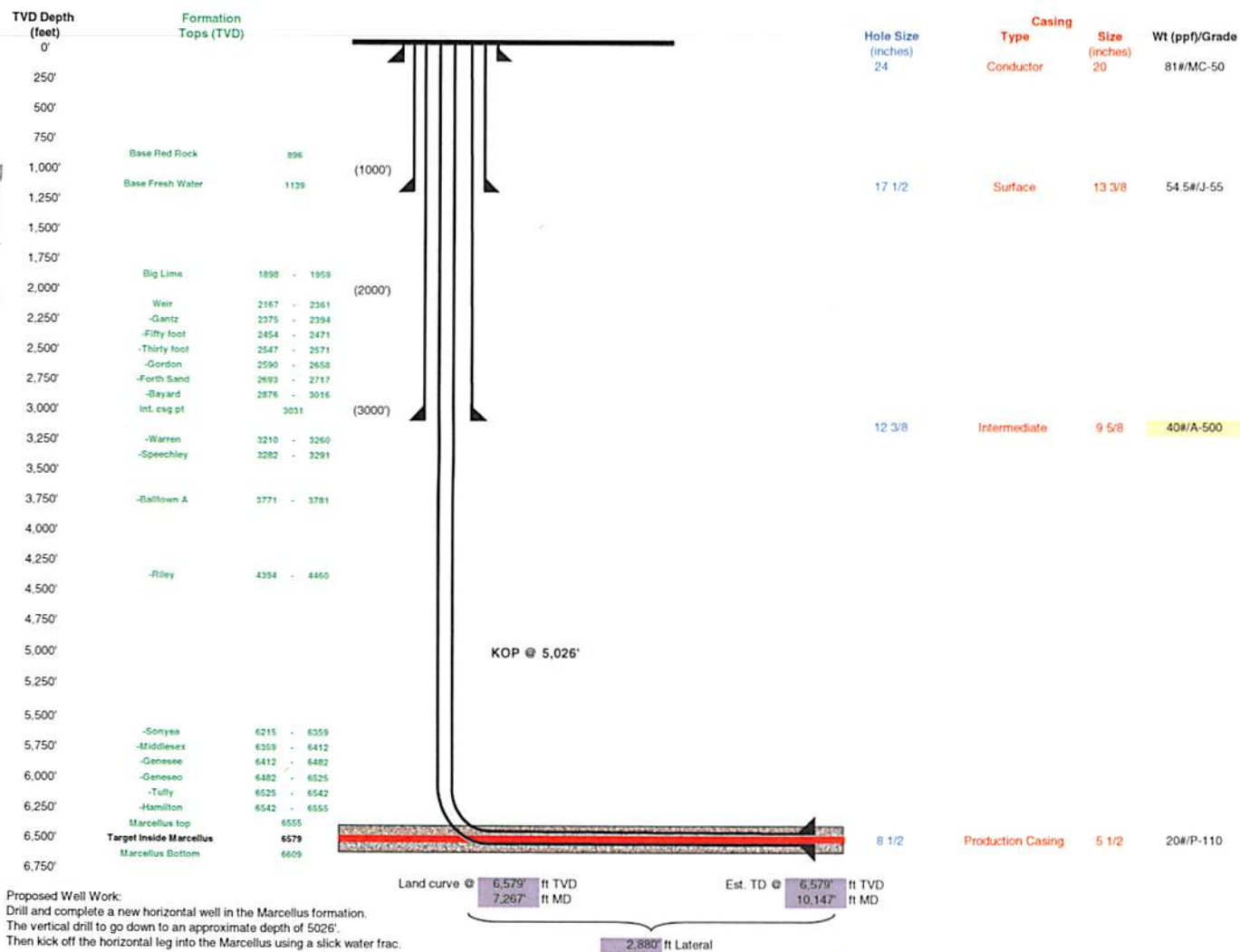
Oxford

Doddridge

West Virginia

Azimuth 335  
Vertical Section 3213

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Office of Oil & Gas  
DEC 18 2014



4701706706

4701706706

WW-9  
(5/13)Page 1 of 2  
API No. 47 - 017 - 06706  
Operator's Well No. 515939STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

## Fluids/Cuttings Disposal &amp; Reclamation Plan

Operator Name EQT Production Company OP Code 306686  
Watershed (HUC10) Tributary of Straight Fork Quadrangle Oxford 7.5  
Elevation 1170.0 County Doddridge District SouthwestDo you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes x No   Will a pit be used? Yes: X No:   If so please describe anticipated pit waste: flowback water & residual solidsWill a synthetic liner be used in the pit? Yes X No    If so, what ml.? 60

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    )

DEN  
12-27-2014Will closed loop system be used? 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? Air, freshwater, oil based, etc.     
   Air is used to drill the top-hole sections of the wellbore,  
   Surface, intermediate, and Pilot hole sections, water based  
   mud is used to drill the curve and lateral.If oil based, what type? Synthetic, petroleum, etc   Additives to be used in drilling medium? MILBAR, Viscosifier, Alkalinity Control, Lime, Chloride Salts, Rate Filtration Control, Deflocculant, Lubricant, Detergent, Defoaming, Walnut Shell, X-Cide, SOLTEX Terra. Of the listed chemicals the following are generally used when drilling on air: lubricant, detergent, defoaming. Water based fluids use the following chemicals: MILBAR, viscosifier, alkalinity control, lime, chloride salts, rate filtration control, deflocculant, lubricant, detergent, defoaming, walnut shell, x-cide, SOLTEX terraDrill 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

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.

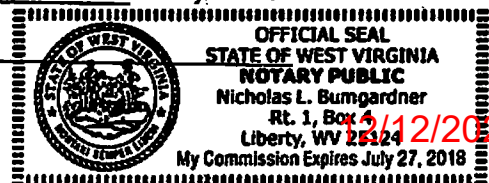
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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) Victoria J. Roark  
Company Official Title Permitting SupervisorReceived  
Office of Oil & Gas

JAN 06 2015

Subscribed and sworn before me this 16 day of DECEMBER, 20 14My commission expires 7/24/2018

Notary Public



12/2025

Proposed Revegetation Treatment: Acres Disturbed ± 15.7 Prevegetation pH 6.5Lime 3 Tons/acre or to correct to pH 6.5

Fertilize type \_\_\_\_\_

Fertilizer Amount 1/3 lbs/acre (500 lbs minimum)Mulch 2 Tons/acre

## Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Douglas AsenComments: Prescribed + Mulch install ETS to W. Dep  
regulationsTitle: Oil & Gas InspectorDate: 12-23-2014

Field Reviewed?

( ✓ )

Yes

( ) No

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Office of Oil & Gas

JAN 06 2015

12/12/2025

<b>EQT Production Water plan</b> <b>Offsite disposals for Marcellus wells</b>
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**CWS TRUCKING INC.**

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

**BROAD STREET ENERGY LLC**

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

**LAD LIQUID ASSETS DISPOSAL INC.**

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

**TRIAD ENERGY**

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

**TRI COUNTY WASTE WATER MANAGEMENT, INC.**

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

**KING EXCAVATING CO.**

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

**Waste Management - Meadowfill Landfill**

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

**Waste Management - Northwestern Landfill**

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

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 Office of Oil & Gas  
 DEC 18 2014

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Where energy meets innovation.™

47-017-06706  
4701706706

# Site Specific Safety Plan

EQT OXF 44 Pad

West Union  
Doddridge County, WV

For Wells:

515939 515940  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date Prepared:

November 26, 2014

EQT Production

Title

Date

WV Oil and Gas Inspector

Title

Date

Received  
Office of Oil & Gas

JAN 06 2015

12/12/2025

# J. LEESON LEASE WELL NO.S WV515939 & WV 515940

1706706

NOTE: SEE SITE PLAN OF OXF44  
FOR COMPLETED GRADING &  
DRAINAGE CONSTRUCTION  
INCLUDING EROSION & SEDIMENT  
CONTROL DETAILS, ETC.

SCALE: 1"=500'

0' 500' 1000'

## Detail Sketch for Proposed Wells WV 515939 & WV 515940

NOTE: SEE SITE PLAN OF OXF44  
FOR COMPLETED GRADING &  
DRAINAGE CONSTRUCTION  
INCLUDING EROSION & SEDIMENT  
CONTROL DETAILS, ETC.

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DEC 18 2014

Pum  
Stati



Professional Energy Consultants  
A DIVISION OF SMITH LAND SURVEYING, INC.

SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.  
WWW.SLSURVEY.COM

DRAWN BY: K.D.W. FILE NO. 6113 DATE 11-20-14 CADD FILE: 611302044REC.dwg

TOPO SECTION OF OXFORD 7.5'  
USGS TOPO QUADRANGLE

12/12/2025  
Not To Scale



**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 Min 1/8 pd	Book/Page
<b>109481</b>				
	Jackson Leeson, et al	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.	Equitable Production-Eastern States, Inc.		LB192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB281/346
	Equitable Production Company	EQT Production Company		CB281/346
<b>114446</b>				
	F. M. Snider, et ux	The Philadelphia Co. of West Virginia		LB32/444
	The Philadelphia Co. of West Virginia	Pittsburgh & West Virginia Gas Co.		DB87/90
	Pittsburgh & West Virginia Gas Co.	Equitable Gas Co.		DB121/257
	Equitable Gas Co.	Equitrans, Inc.		LB155/557
	Equitrans, Inc.	Equitable Production-Eastern States		LB192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB281/346
	Equitable Production Company	EQT Production Co.		CB281/346

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

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

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

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

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Office of Oil & Gas  
DEC 18 2014

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: \_\_\_\_\_

Its: \_\_\_\_\_

Permitting Supervisor

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

Date of Notice Certification: DEC 18 2014

API No. 47 - 017 - 0  
Operator's Well No. 515939  
Well Pad Name: OXF44

**Notice has been given:**

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

State:	<u>WV</u>	UTM NAD 83 Easting:	<u>516,075.00</u>
County:	<u>Doddridge</u>	UTM NAD 83 Northing:	<u>4,332,922.10</u>
District:	<u>Southwest</u>	Public Road Access:	<u>52/3</u>
Quadrangle:	<u>Oxford 7.5</u>	Generally used farm name:	<u>Arden &amp; Carol Cogar</u>
Watershed:	<u>Tributary of Straight Fork</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.

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:

**\*PLEASE CHECK ALL THAT APPLY**

- |  |   |
|--|---|
| <input type="checkbox"/> NOTICE OF SEISMIC ACTIVITY or           | <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED     |
| <input type="checkbox"/> NOTICE OF ENTRY FOR PLAT SURVEY or      | <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED                                      |
| <input checked="" type="checkbox"/> NOTICE OF INTENT TO DRILL or | <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR |
|  | <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)                              |
| <input checked="" type="checkbox"/> NOTICE OF PLANNED OPERATION  |   |
| <input checked="" type="checkbox"/> PUBLIC NOTICE                |   |
| <input checked="" type="checkbox"/> NOTICE OF APPLICATION        |   |

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DEC 18 2014

**OOG OFFICE USE ONLY**

- |  |
|--|
| <input type="checkbox"/> RECEIVED/NOT REQUIRED |
| <input type="checkbox"/> RECEIVED              |
| <input type="checkbox"/> RECEIVED/NOT REQUIRED |
| <input type="checkbox"/> RECEIVED              |
| <input type="checkbox"/> RECEIVED              |
| <input type="checkbox"/> RECEIVED              |

**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.

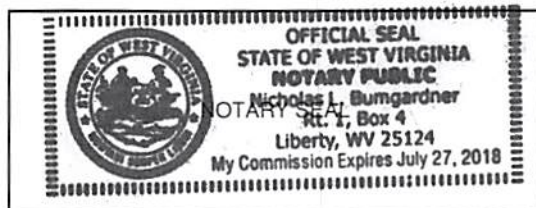
12/12/2025

**Certification of Notice is hereby given:**

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

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

Address: P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0040  
Email: [vroark@eqt.com](mailto:vroark@eqt.com)



Subscribed and sworn before me this 16 day of DECEMBER, 2014

*Nicholas L. Bumgardner* Notary Public

My Commission Expires 7/27/2018

**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](mailto:depprivacyofficer@wv.gov).

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DEC 18 2014

12/12/2025

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: DEC 17 2014 Date Permit Application Filed: DEC 18 2014

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 the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of 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; 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 disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The 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 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 construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field 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 in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be 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 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 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: Arden E. Cogar  
Address: 45 Bennett Ave  
Webster Springs, WV 26288  
0

Name: 0  
Address: 0  
0  
0

☒ SURFACE OWNERS(s) (Road and/or Other Disturbance)

Name: Arden E. Cogar  
Address: 45 Bennett Ave  
Webster Springs, WV 26288  
0

Name: Jimmie and Eileen Burke  
Address: 2048 Straight Fork Rd  
West Union, WV 26456  
See attached for additional road owners

☒ SURFACE OWNER(s) (Impoundments/Pits)

Name: Arden E. Cogar  
Address: 45 Bennett Ave  
Webster Springs, WV 26288  
See attached for additional pit/impoundment owners

☒ COAL OWNER OR LESSEE

Name: Adele McDougal  
Address: 213 High Street  
Harrisville, WV 26362  
0

See attached for additional coal owners.

☐ COAL OPERATOR

Name: 0  
Address: 0  
0  
0

☒ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: Betty M. Ryan  
Address: 4153 Grove Summers Road  
West Union, WV 26456  
See attached for additional water purveyors

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: 0  
Address: 0  
0  
0

\*Please attach additional forms if necessary

12/12/2025

WW6-A

**Additional road or other disturbance owners:**

Coastal Forest Resources Co. ✓  
P.O. Box 709  
Buckhannon, WV 26201

**Additional road or other pit/impoundment owners:**

Coastal Forest Resources Co. ✓  
P.O. Box 709  
Buckhannon, WV 26201

**Additional Coal Owners:**

William Lee Huff ✓  
1108 W. County Rd. 130  
Midland, TX 79706

The Randy E. Huff Descendants Trust B  
C/O Joy Huff, Trustee ✓  
826 Orange Ave  
Coronado, CA 92118

George D. McKain ✓  
4141 S Braeswood Blvd. apt 224  
Houston, TX 77009

Patrick Dean Leggett ✓  
1625 Stonehenge Rd  
Charleston, WV 25314

**Additional Water Purveyors:**

Arden E & Carol L Cogar ✓  
P.O. Drawer 272  
Webster Springs, WV 26288

Costal Forest Resource Co. ✓  
P.O. Box 709  
Buckhannon, WV 26201

Arbee R & Phyllis A Jones (Surv) ✓  
109 River Run Road  
West Union, WV 26456

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DEC 18 2014

12/12/2025

**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](http://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

12/12/2025

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.**

12/12/2025

### **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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DEC 18 2014

12/12/2025

**Notice is hereby given by:**

Well Operator: EQT Production Company  
Telephone: 304-848-0082  
Email: Vroark@eqt.com

Address: 115 Professional Place P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0041

**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](mailto:depprivacyofficer@wv.gov).

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, 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.



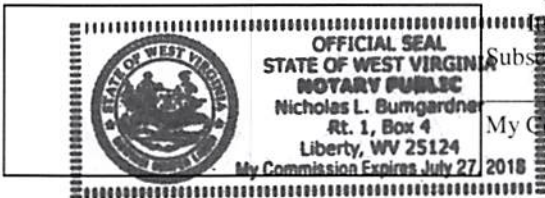
By: Victoria Roark

(S) Permitting Supervisor

Subscribed and sworn before me 16 day of December, 2014

Notary Public

My Commission Expires 7/27/2018



Received  
Office of Oil & Gas  
DEC 18 2014

12/12/2025



Table 1 – Water Source Identification

EQT Well Pad Name: OXF44 Submittal Date: 12/15/14

EQT Well Number: 515939, 515940

Survey / Engineering Company: Smith Surveying

Site Number: 1 Distance from Gas Well (feet): 1900

Surface Owner / Occupant: Utahona Williams

Address: P.O. Box 43, Elkview, WV 25071 Phone #: 304-743-1933

Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): Yes

Coordinates: \_\_\_\_\_ (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 12/12/14 2<sup>nd</sup>: 12/15/14 3<sup>rd</sup>: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_

Comments: Tax map 16, parcel 3 39.149168, -80.921834

Site Number: 1 Distance from Gas Well (feet): 1900

Surface Owner / Occupant: Claudia Williams

Address: 307 Bucknell Rd. Venice, FL 34293 Phone #: 941-497-6247

Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): no

Coordinates: \_\_\_\_\_ (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 12/12/14 2<sup>nd</sup>: 12/15/14 3<sup>rd</sup>: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_

Comments: Tax Map 16, parcel 3 \*NOTE\* Rob Williams, Claudia's son, cars for parcel (941)412-4987 39.149168, -80.921834

Site Number: 2 Distance from Gas Well (feet): 2500

Surface Owner / Occupant: Mary Jo Janschek

Address: 5071 Grove Summer Rd, West Union, WV 26456 Phone #: 304-349-5635

Field Located Date: \_\_\_\_\_ Owner home during survey (Yes/No): \_\_\_\_\_

Coordinates: \_\_\_\_\_ (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 12/12/14 2<sup>nd</sup>: 12/15/14 3<sup>rd</sup>: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_

Comments: Tax map 13, Parcel 69

12/12/2025



## Table 1 – Water Source Identification

EQT Well Pad Name: OXF44 Submittal Date: 12/15/14

EQT Well Number: 515939, 515940

Survey / Engineering Company: Smith Surveying

Site Number: 3 Distance from Gas Well (feet):

Surface Owner / Occupant: Betty M. Ryan

Address: 4153 Grove Summers Rd., New Milton, WV 26411 Phone #:

Field Located Date:  Owner home during survey (yes/no):

Coordinates:  (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>:  2<sup>nd</sup>:  3<sup>rd</sup>:  Date Door Hanger Left:

Comments: certified mailed 12/1/14

Site Number: 4 Distance from Gas Well (feet):

Surface Owner / Occupant: Arden E & Carol L. Cogar

Address: P.O. Drawer 272, Webster Springs, WV 26288 Phone #:

Field Located Date:  Owner home during survey (yes/no):

Coordinates:  (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>:  2<sup>nd</sup>:  3<sup>rd</sup>:  Date Door Hanger Left:

Comments: certified mailed 12/1/14 refused sample 12/16/14

Site Number: 5 Distance from Gas Well (feet):

Surface Owner / Occupant: Coastal Forest Resources, Co.

Address: P.O. Box 709, Buckhannon, WV 26201 Phone #:

Field Located Date:  Owner home during survey (Yes/No):

Coordinates:  (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>:  2<sup>nd</sup>:  3<sup>rd</sup>:  Date Door Hanger Left:

Comments: certified mailed 12/1/14

Received  
Office of Oil & Gas  
DEC 18 2014

12/12/2025



Table 1 – Water Source Identification

EQT Well Pad Name: OXF44 Submittal Date: 12/15/14

EQT Well Number: 515939, 515940

Survey / Engineering Company: Smith Surveying

Site Number: 6 Distance from Gas Well (feet):

Surface Owner / Occupant: Arbee R & Phyllis A. Jones (Surv)

Address: 19 River Run Dr, West Union, WV 26456 Phone #:

Field Located Date:  Owner home during survey (yes/no):

Coordinates:  (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>:  2<sup>nd</sup>:  3<sup>rd</sup>:  Date Door Hanger Left:

Comments: certified mail sent 12/1/14

Site Number:  Distance from Gas Well (feet):

Surface Owner / Occupant:

Address:  Phone #:

Field Located Date:  Owner home during survey (yes/no):

Coordinates:  (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>:  2<sup>nd</sup>:  3<sup>rd</sup>:  Date Door Hanger Left:

Comments:

Site Number:  Distance from Gas Well (feet):

Surface Owner / Occupant:

Address:  Phone #:

Field Located Date:  Owner home during survey (Yes/No):

Coordinates:  (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>:  2<sup>nd</sup>:  3<sup>rd</sup>:  Date Door Hanger Left:

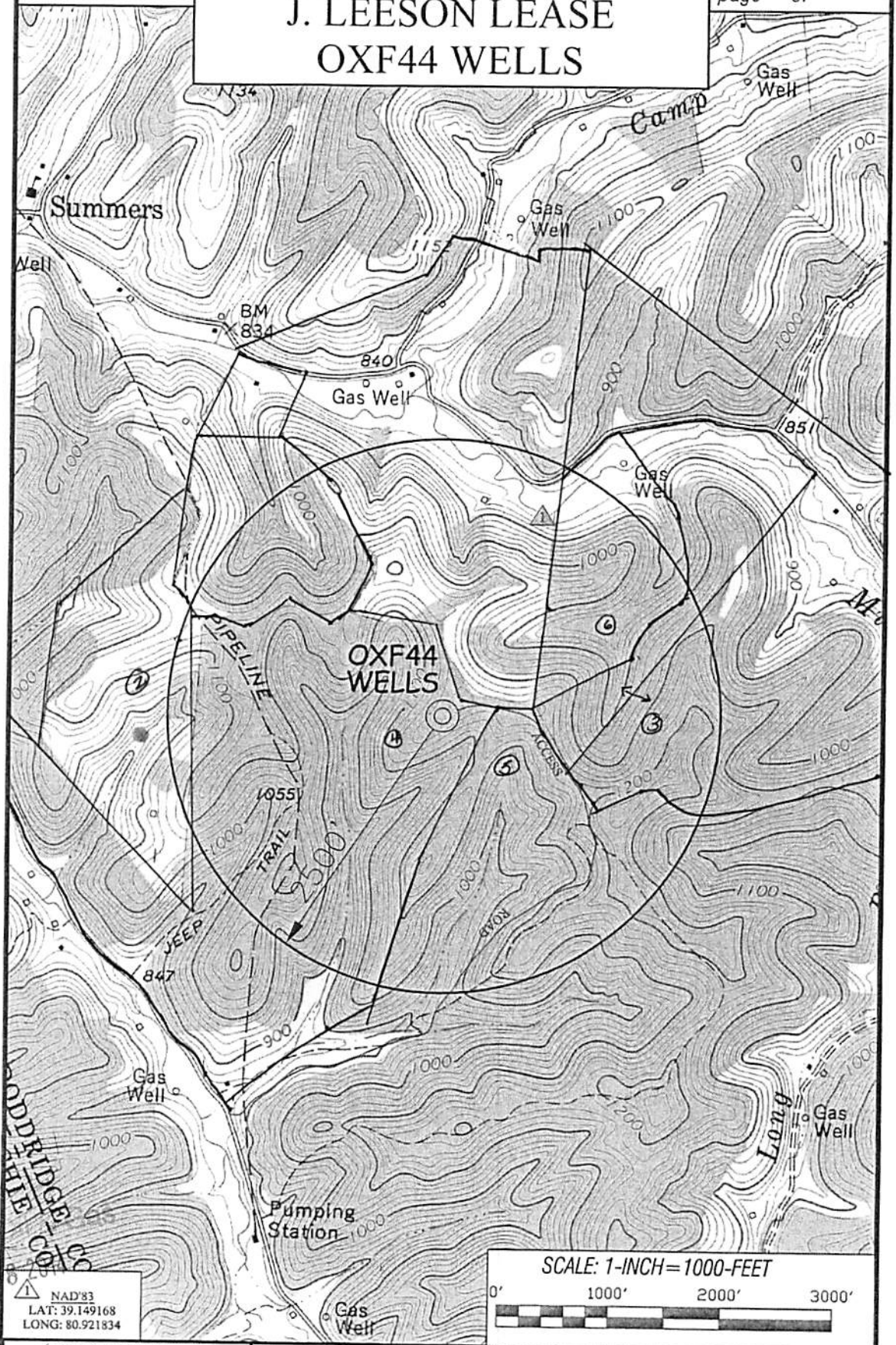
Comments:

12/12/2025

WATER SAMPLES

# J. LEESON LEASE OXF44 WELLS

page of



Received  
Office of  
DEC 18 2015

NAD'83  
LAT: 39.149168  
LONG: 80.921834

SCALE: 1-INCH=1000-FEET



**Professional Energy Consultants**  
A DIVISION OF SMITH LAND SURVEYING, INC.

**SLS**  
SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.

DRAWN BY: K.D.W.  
FILE NO.: 6113  
DATE: 12/12/14  
CADD FILE: 6113024465.dwg

TOPO SECTION OF:		
OXFORD, WV 7.5' QUAD		
DISTRICT	COUNTY	TAX MAP-PARCEL NO.
SOUTHWEST	DODDRIIDGE	16-05

OPERATOR:  
**EQT PRODUCTION COMPANY**  
115 PROFESSIONAL PLACE  
P.O. BOX 280  
BRIDGEPORT, WV 26305

12/12/2025

**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:** 12/5/2014 **Date Permit Application Filed:** 12/15/14

**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:** Arden E Cogar  
**Address:** 45 Bennett Ave  
Webster Springs WV 26288

**Name:** Coastal Forest Resources Co  
**Address:** P.O. Box 709  
Buckhannon, WV 26201

**Notice is hereby given:**

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

State:	<u>WV</u>	UTM NAD 83	Easting	<u>516,075.00</u>
County:	<u>Doddridge</u>		Northing	<u>4,332,922.10</u>
District:	<u>Southwest</u>		Public Road Access:	<u>52/3</u>
Quadrangle:	<u>Oxford 7.5</u>		Generally used farm name:	<u>Arden &amp; Carol Cogar</u>
Watershed:	<u>Tributary of Straight Fork</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx)

**Notice is hereby given by:**

**Well Operator:** EQT Production Company  
**Address:** 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
**Telephone:** 304-848-0076  
**Email:** vroark@eqt.com  
**Facsimile:** 304-848-0041

**Authorized Representative:** Victoria Roark  
**Address:** 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
**Telephone:** 304-848-0076  
**Email:** vroark@eqt.com  
**Facsimile:** 304-848-0041

**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](mailto:depprivacyofficer@wv.gov).

12/12/2025

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

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DELIVERY**

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

Name: Jimmie & Eileen Burke  
Address: 2048 Straight Fork  
West Union WV 26456

Name: \_\_\_\_\_  
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: WV	UTM NAD 83	Easting: 516,075.00
County: Doddridge		Northing: 4,332,922.10
District: Southwest		Public Road Access: 52/3
Quadrangle: Oxford 7.5		Generally used farm name: Arden & Carol Cogar
Watershed: Tributary of Straight Fork		

**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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx)

**Notice is hereby given by:**

Well Operator: EQT Production Company  
Address: 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
Telephone: 304-848-0076  
Email: vroark@eqt.com  
Facsimile: 304-848-0041

Authorized Representative: Victoria Roark  
Address: 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
Telephone: 304-848-0076  
Email: vroark@eqt.com  
Facsimile: 304-848-0041

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12/12/2025

Received  
Office of Oil & Gas  
DEC 18 2014

WW-6A5  
(1/12)

Operator Well No. 515939

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 102 8 1 330

Date of Notice: DEC 17 2014

Date Permit Application Filed: \_\_\_\_\_

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

☒ CERTIFIED MAIL  
RETURN RECEIPT REQUESTED ☐ HAND  
DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Arden E. Cogar  
Address: 45 Bennett Ave  
Webster Springs, WV 26288

Name: Jimmie and Eileen Burke  
Address: 2048 Straight Fork Rd  
West Union, WV 26456

Notice is hereby given:

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

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>516,075.00</u>
County:	<u>Doddridge</u>		Northing:	<u>4,332,922.10</u>
District:	<u>Southwest</u>	Public Road Access:		<u>52/3</u>
Quadrangle:	<u>Oxford 7.5</u>	Generally used farm name:		<u>Arden &amp; Carol Cogar</u>
Watershed:	<u>Tributary of Straight Fork</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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: EQT Production Company  
Telephone: 304-848-0082  
Email: vroark@eqt.com

Address: 115 Professional Place, P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0040

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](mailto:depprivacyofficer@wv.gov).

Received  
Office of Oil & Gas  
DEC 18 2014

12/12/2025

WW-6A5  
(1/12)

Operator Well No. 515939

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: DEC 17 2014 Date Permit Application Filed: DEC 18 2014

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: Coastal Forest Resources Co.  
Address: P.O. Box 709  
Buckhannon, WV 26201

Name: \_\_\_\_\_  
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:

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District:	<u>Southwest</u>	Public Road Access:		<u>52/3</u>
Quadrangle:	<u>Oxford 7.5</u>	Generally used farm name:		<u>Arden &amp; Carol Cogar</u>
Watershed:	<u>Tributary of Straight Fork</u>			

This Notice Shall Include:

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Well Operator: EQT Production Company  
Telephone: 304-848-0082  
Email: vroark@eqt.com

Address: 115 Professional Place, P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0040

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](mailto:depprivacyofficer@wv.gov).

12/12/2025



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

Earl Ray Tomblin  
Governor

Paul A. Mattox, Jr., P. E.  
Secretary of Transportation/  
Commissioner of Highways

December 8, 2014

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

Subject: DOH Permit for the OXF 44 Pad Site, Doddridge County

515939 OXF44H6

515940 OXF44H7

Dear Mr. Martin,

This well site will be accessed from Permit # 04-2014-1228 issued to EQT Production Company for access to the State Road. The well site is located off of Doddridge County Route 52/3 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

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

Cc: Nick Bumgardner  
EQT Production Company  
CH, OM, D-4,  
File

Received  
Office of Oil & Gas

DEC 18 2014

**Anticipated Frac Additives**  
**Chemical Names and CAS numbers**

<b><u>Material</u></b>	<b><u>Ingredient</u></b>	<b><u>CAS Number</u></b>
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

Received  
Office of Oil & Gas  
DEC 18 2014

12/12/2025

# PROJECT INFORMATION

PROJECT NAME: EQT OXF 44  
TAX PARCEL:  
SOUTHWEST DISTRICT, DODDRIDGE COUNTY, WV  
TAX MAP 16  
SURFACE OWNERS:  
COASTAL FOREST RESOURCES  
SOUTHWEST DISTRICT  
DODDRIDGE COUNTY, WV  
TAX MAP 16 PARCEL 8.5  
TOTAL PROPERTY AREA: 1.57 +/- ACRES  
TOTAL DISTURBANCE AREA: 0.97 +/- ACRES  
TAX MAP 16 PARCEL 8.3  
TOTAL PROPERTY AREA: 3.51 +/- ACRES  
TOTAL DISTURBANCE AREA: 2.27 +/- ACRES  
TAX MAP 16 PARCEL 8.2  
TOTAL PROPERTY AREA: 416.81 +/- ACRES  
TOTAL DISTURBANCE AREA: 7.27 +/- ACRES  
JIMMIE BURKE  
SOUTHWEST DISTRICT  
DODDRIDGE COUNTY, WV  
TAX MAP 16 PARCEL 8.1  
TOTAL PROPERTY AREA: 8.88 +/- ACRES  
TOTAL DISTURBANCE AREA: 0.04 +/- ACRES  
ARDEN A CAROL COGAR  
SOUTHWEST DISTRICT  
DODDRIDGE COUNTY, WV  
TAX MAP 16 PARCEL 05  
TOTAL PROPERTY AREA: 352.00 +/- ACRES  
TOTAL DISTURBANCE AREA: 6.57 +/- ACRES  
OIL AND GAS ROYALTY OWNER:  
ADELLE MCCOUGHLIN (AL 2000 +/- ACRES)  
SOUTHWEST DISTRICT  
DODDRIDGE COUNTY, WV  
GRID NORTH AND ELEVATIONS  
ESTABLISHED BY SURVEY  
GRADE GPS

THE EQT OXF 44 SITE ENTRANCE IS LOCATED 2.0 MI +/- NORTHWEST  
OF THE JUNCTION OF CR 52/3 AND CR 62/3. THE WELL PAD IS  
LOCATED 3.2 MILES +/- NORTH OF THE SAME JUNCTION.

LOCATION COORDINATES  
EQT OXF 44 WELL PAD CENTER  
LATITUDE: 39.145387 LONGITUDE: 80.814023 (NAD 83)  
EQT OXF 44 ASSOCIATED FLOWBACK PIT CENTER  
LATITUDE: 39.144900 LONGITUDE: 80.814907 (NAD 83)  
EQT OXF 44 ACCESS ROAD AT CR 52/3  
LATITUDE: 39.135368 LONGITUDE: 80.820468 (NAD 83)

## GENERAL DESCRIPTION

THE WELL PAD, ACCESS ROAD, ASSOCIATED FLOWBACK PIT, AND ASSOCIATED  
IMPOUNDMENT ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL  
MARCELLUS SHALE GAS WELLS.

## SITE DISTURBANCE COMPUTATIONS

WELL PAD AREA = 8.2 +/- ACRES  
ACCESS ROAD = 9.5 +/- ACRES  
TOTAL SITE DISTURBANCE AREA = 15.7 +/- ACRES

## ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MMA-106) FROM  
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO  
COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

## MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATING OF UTILITIES PRIOR TO  
THIS PROJECT DESIGN. TICKET #1433991057. IN ADDITION, MISS UTILITY WILL BE CONTACTED  
PRIOR TO START OF THE PROJECT.

## ENVIRONMENTAL NOTES

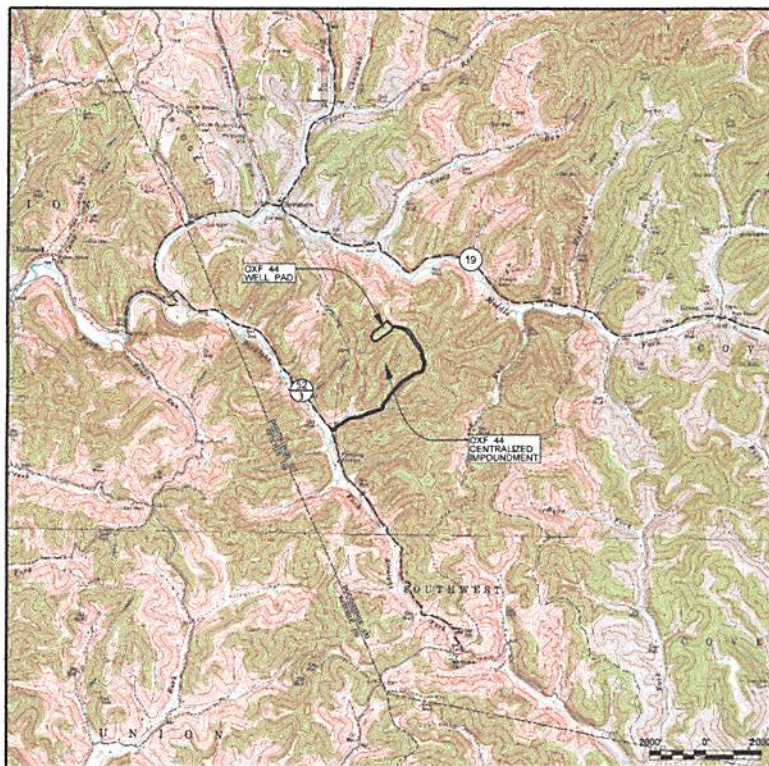
A WETLAND DELINEATION WAS PERFORMED BY POTESTA & ASSOCIATES ON 4/20/11,  
9/3/2014, 9/17/2014, AND 11/20/2014 TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT  
ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF  
ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL  
PROTECTION (WVDEP). THE DECEMBER 8TH, 2014 REPORT FOR OXF 44 PREPARED BY  
POTESTA & ASSOCIATES, INC. SUMMARIZES THE RESULTS OF THE FIELD DELINEATION.  
THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF  
THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE  
USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFORESAIDED  
AGENCIES BE CONSULTED IN AN EFFORT TO OBTAIN WRITTEN CONFIRMATION OF THE  
DELINEATION DESCRIBED BY THIS REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE  
PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE  
PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY  
PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM  
CROSSINGS.

## GEOTECHNICAL NOTES

A SUBSURFACE INVESTIGATION HAS NOT BEEN PERFORMED AS OF 1/14/14. THE  
ENGINEER AND SURVEYOR ARE NOT RESPONSIBLE FOR UNFORESEEN SUBSURFACE  
IRREGULARITIES CAUSING ADDITIONAL WORK OR ADDITIONAL CONSTRUCTION MEASURES  
REQUIRED BEYOND THOSE STANDARD PRACTICES SHOWN ON THIS PLAN AS A RESULT OF  
ANY OTHER GEOTECHNICAL COMPLICATIONS ENCOUNTERED DURING CONSTRUCTION.

# EQT OXF 44 SITE PLAN MODIFICATION EQT PRODUCTION COMPANY (PROPOSED WELL NO. WV515939 (H6) AND WV515940 (H7))

SITUATE ON THE WATERS OF UNNAMED TRIBUTARIES  
TO STRAIGHT FORK IN SOUTHWEST DISTRICT,  
DODDRIDGE COUNTY, WV



OXFORD QUADRANGLE  
WEST VIRGINIA  
7.5 MINUTE SERIES

MISS Utility of West Virginia  
1-800-355-4444  
West Virginia State Law  
(Section XV, Chapter 24-2)  
Requires that you call two  
business days before you dig in  
the state of West Virginia.  
IT'S THE LAW

## RESTRICTIONS NOTES

1. THERE ARE INTERMITTENT/PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE PROJECT LOD. THERE ARE WETLANDS WITHIN 100 FEET OF THE LOD.
2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE PAD AND LOD.
3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 100 FEET OF THE PAD AND LOD.
4. THERE ARE NO KNOWN EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELLS(S) BEING DRILLED. STANTEC AND SMITH LAND SURVEYING ARE NOT RESPONSIBLE FOR ANY EXISTING WATER WELL OR DEVELOPED SPRING DISCOVERED DURING CONSTRUCTION.
5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE PAD.
6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE PAD.



API # 1706706  
API # 1706707

## LIST OF DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	OVERALL PLAN SHEET INDEX
4-9	ACCESS ROAD AND WELL SITE LAYOUT
10-12	WELL PAD AND EXISTING FLOWBACK PIT SECTIONS
13-15	ACCESS ROAD PROFILES AND TYPICAL SECTIONS
16-20	ACCESS ROAD SECTIONS
21-25	RECLAMATION PLAN
26-29	CONSTRUCTION DETAILS
30	CONSTRUCTION QUANTITIES

## LEGEND

EX. INDEX CONTOUR	--- 1550 ---	PROP. INDEX CONTOUR	--- 1550 ---
EX. INTERMEDIATE CONTOUR	--- 1550 ---	PROP. INTERMEDIATE CONTOUR	--- 1550 ---
EX. BOUNDARY LINE	---	PROP. CUT LINE	---
EX. EDGE OF ROAD PAVEMENT	---	PROP. FILL LINE	---
EX. APPROVED LIMIT OF DISTURBANCE	---	PROP. LIMITS OF DISTURBANCE	---
EX. GUARDRAIL	---	ENVIRONMENTAL ASSESSMENT AREA OF DELINEATION	---
EX. FENCELINE	---	PROP. WELL HEAD	---
EX. GATE	---	PROP. CONTAINMENT BERM	---
EX. OVERHEAD UTILITY	---	PROP. ROAD CENTERLINE	---
EX. OVERHEAD UTILITY RW	---	PROP. CULVERT	---
EX. UTILITY POLE	---	PROP. RIP-RAP OUTLET PROTECTION	---
EX. GUY WIRE	---	PROP. COMPOST FILTERSOCK	---
EX. TELEPHONE LINE	---	PROP. ROCK CONSTRUCTION ENTRANCE	---
EX. GASLINE	---	X-SECTION GRID INDEX	---
EX. GASLINE RW	---	X-SECTION GRID INTERMEDIATE	---
EX. WATERLINE	---	X-SECTION PROPOSED GRADE	---
EX. WATER WELL	---	X-SECTION EXISTING GRADE	---
EX. GAS WELL	---		
EX. TREELINE	---		
EX. REFERENCE TREE	---		
EX. DELINEATED STREAM	---		
EX. DELINEATED WETLAND	---		
EX. BUILDING	---		

## OPERATOR

EQT PRODUCTION COMPANY  
OPERATOR ID: 306686  
P.O. BOX 280  
BRIDGEPORT, WV 26630  
PHONE: (304) 348-3870

## ENGINEER

STANTEC CONSULTING, INC.  
111 ELKINS STREET  
FAIRMONT, WV 26554  
PHONE: (304) 367-9401

## SURVEYOR

SMITH LAND SURVEYING, INC.  
12 VANHORN DRIVE  
PO BOX 150  
GLENNVILLE, WV 26031  
PHONE: (304) 462-5634

Electronic version of these plans may be viewed at: Q:\OIL GAS\SAY FILES\REVIEWS



Professional Energy Consultants  
A DIVISION OF STANTEC CONSULTING, INC.



THIS DOCUMENT WAS  
PREPARED BY:  
STANTEC  
EQT PRODUCTION COMPANY

TITLE SHEET  
EQT OXF 44  
SOUTHWEST DISTRICT  
DODDRIDGE COUNTY, WV

DATE: 12/10/2014  
SCALE: AS SHOWN  
DESIGNED BY: BJA  
FILE NO: SLS-42020  
SHEET 1 OF 30  
REV

**APPROVED  
WVDEP OOG**  
3/9/2015

ENVIRONMENTAL ASSESSMENT  
AREA OF DELINEATION

CENTER OF FLOWBACK PIT  
LAT/LONG (NAD 83)  
39 144030 W  
80 814907 W

LIMIT OF DISTURBANCE

WETLAND WL 1A

FS-17 (18')

FS-18 (18')

RIPRAP (D<sub>50</sub> = 6" MIN)

SUMP DRAIN FINISH  
GRADE ELEV = 1171.0

FS-22 (18')

EXISTING PIPELINE  
RIGHT-OF-WAY

CONTAINMENT BERM

FS-19 (12')

FS-20 (12')

FS-21 (12')

EXISTING CELLAR  
BOXES ELEV 1170.5

EX GAS  
METER

CENTER OF WELL PAD  
LAT/LONG (NAD 83)  
39 143367 N  
80 814223 W

RIS PAD  
ELEV = 1171.7

EXISTING STOCKPILE ESTIMATED  
STORAGE VOLUME = 8,895 CY  
APPROXIMATELY 3,775 CY REMOVED  
FOR PROPOSED WELL PAD  
CONSTRUCTION

EXISTING PIPELINE  
(APPROXIMATE LOCATION)

EXISTING PIPELINE  
(APPROXIMATE LOCATION)

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213+00

214+00

215+00

216+00

217+00

218+00

219+00

220+00

221+00

222+00

47-07-06706

# PROJECT INFORMATION

PROJECT NAME: EQT OXF 44

TAX PARCEL:  
SOUTHWEST DISTRICT, DODDGE COUNTY, WV  
TAX MAP 18

## SURFACE OWNERS:

COASTAL FOREST RESOURCES  
SOUTHWEST DISTRICT  
DODDGE COUNTY, WV  
TAX MAP 18 PARCEL 8.5  
TOTAL PROPERTY AREA: 1.57 +/- ACRES  
TOTAL DISTURBANCE AREA: 0.97 +/- ACRES

BETTY M. RYAN  
SOUTHWEST DISTRICT  
DODDGE COUNTY, WV  
TAX MAP 18 PARCEL 8  
TOTAL PROPERTY AREA: 217.00 +/- ACRES  
TOTAL DISTURBANCE AREA: 0.05 +/- ACRES

TAX MAP 18 PARCEL 8.3  
TOTAL PROPERTY AREA: 3.51 +/- ACRES  
TOTAL DISTURBANCE AREA: 0.55 +/- ACRES

TAX MAP 18 PARCEL 8.1  
TOTAL PROPERTY AREA: 42.00 +/- ACRES  
TOTAL DISTURBANCE AREA: 0.20 +/- ACRES

TAX MAP 18 PARCEL 8.2  
TOTAL PROPERTY AREA: 416.61 +/- ACRES  
TOTAL DISTURBANCE AREA: 7.27 +/- ACRES

JIMMIE BURKE  
SOUTHWEST DISTRICT  
DODDGE COUNTY, WV  
TAX MAP 18 PARCEL 8.1  
TOTAL PROPERTY AREA: 9.88 +/- ACRES  
TOTAL DISTURBANCE AREA: 0.04 +/- ACRES

ARDEN & CAROL COGAR  
SOUTHWEST DISTRICT  
DODDGE COUNTY, WV  
TAX MAP 18 PARCEL 05  
TOTAL PROPERTY AREA: 252.00 +/- ACRES  
TOTAL DISTURBANCE AREA: 6.57 +/- ACRES

OIL AND GAS ROYALTY OWNER:  
ADELE MCDONOUGH, ET AL (2000 +/- ACRES)  
SOUTHWEST DISTRICT  
DODDGE COUNTY, WV

## SITE LOCATION

THE EQT OXF 44 SITE ENTRANCE IS LOCATED 2.0 MI +/- NORTHWEST  
OF THE JUNCTION OF CR 523 AND CR 623. THE WELL PAD IS  
LOCATED 3.2 MILES +/- NORTH OF THE SAME JUNCTION.

## LOCATION COORDINATES

EQT OXF 44 WELL PAD CENTER  
LATITUDE: 39.14587 LONGITUDE: 80.814023 (NAD 83)  
EQT OXF 44 ASSOCIATED FLOWBACK PIT CENTER  
LATITUDE: 39.144800 LONGITUDE: 80.814907 (NAD 83)  
EQT OXF 44 ACCESS ROAD AT CR 523  
LATITUDE: 39.135368 LONGITUDE: 80.820488 (NAD 83)

## GENERAL DESCRIPTION

THE WELL PAD, ACCESS ROAD, ASSOCIATED FLOWBACK PIT, AND ASSOCIATED  
IMPOUNDMENT ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL  
MARCELLUS SHALE GAS WELLS.

## SITE DISTURBANCE COMPUTATIONS

WELL PAD AREA = 6.2 +/- ACRES  
ACCESS ROAD = 9.5 +/- ACRES  
TOTAL SITE DISTURBANCE AREA = 15.7 +/- ACRES

## ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MA-109) FROM  
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO  
COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

## MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTED FOR THE LOCATING OF UTILITIES PRIOR TO  
THIS PROJECT DESIGN. TICKET #1433991057. IN ADDITION, MISS UTILITY WILL BE CONTACTED  
PRIOR TO START OF THE PROJECT.

## ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED BY POTESTA & ASSOCIATES ON 4/20/11,  
8/20/14, 8/17/2014, AND 11/20/2014 TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT  
ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF  
ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL  
PROTECTION (WVDEP). THE DECEMBER 8TH, 2014 REPORT FOR OXF 44 PREPARED BY  
POTESTA & ASSOCIATES, INC. SUMMARIZES THE RESULTS OF THE FIELD DELINEATION.  
THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF  
THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE  
USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFORESAIDED  
AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE  
DELINEATION DESCRIBED BY THIS REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE  
PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE  
PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY  
PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM  
CROSSINGS.

## GEOTECHNICAL NOTES

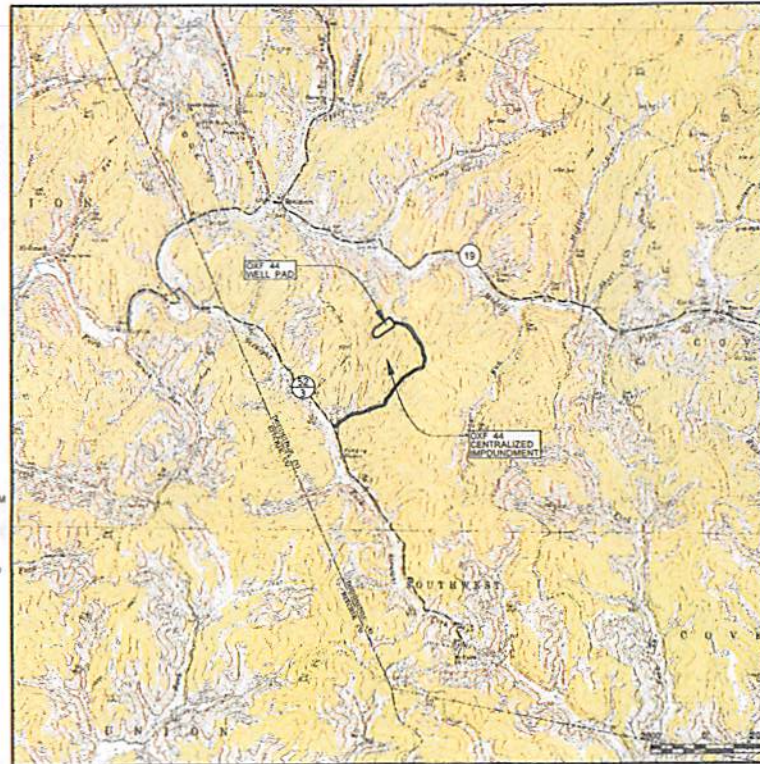
A SUBSURFACE INVESTIGATION HAS NOT BEEN PERFORMED AS OF 11/14/14. THE  
ENGINEER AND SURVEYOR ARE NOT RESPONSIBLE FOR UNFORSEEN SUBSURFACE  
IRREGULARITIES CAUSING ADDITIONAL WORK OR ADDITIONAL CONSTRUCTION MEASURES  
REQUIRED BEYOND THOSE STANDARD PRACTICES SHOWN ON THIS PLAN AS A RESULT OF  
ANY OTHER GEOTECHNICAL COMPLICATIONS ENCOUNTERED DURING CONSTRUCTION.

# EQT OXF 44 SITE PLAN MODIFICATION

## EQT PRODUCTION COMPANY

(PROPOSED WELL NO. WV515939 (H6)  
AND WV515940 (H7))

SITUATE ON THE WATERS OF UNNAMED TRIBUTARIES  
TO STRAIGHT FORK IN SOUTHWEST DISTRICT,  
DODDGE COUNTY, WV



OXFORD QUADRANGLE  
WEST VIRGINIA  
7.5 MINUTE SERIES

## RESTRICTIONS NOTES

1. THERE ARE INTERMITTENT/EPHEMERAL/PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE PROJECT LEO. THERE ARE WETLANDS WITHIN 100 FEET OF THE LEO.
2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE PAD AND LEO.
3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE PAD AND LEO.
4. THERE ARE NO KNOWN EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELLS/ BEING DRILLED. STANTEC AND BATH LAND SURVEYING ARE NOT RESPONSIBLE FOR ANY EXISTING WATER WELL OR DEVELOPED SPRING DISCOVERED DURING CONSTRUCTION.
5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE PAD.
6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE PAD.

MISS Utility of West Virginia  
1-800-345-4948  
West Virginia State Law  
(Section 20V, 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	
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1	TITLE SHEET
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16-20	ACCESS ROAD SECTIONS
21-25	RECLAMATION PLAN
26-29	CONSTRUCTION DETAILS
30	CONSTRUCTION QUANTITIES

LEGEND	
EX INDEX CONTOUR	--- 1250 ---
EX INTERMEDIATE CONTOUR	--- 1350 ---
EX BOUNDARY LINE	---
EX EDGE OF ROAD PAVEMENT	---
EX APPROVED LIMIT OF DISTURBANCE	---
EX GUARDRAIL	---
EX FENCELINE	---
EX GATE	---
EX OVERHEAD UTILITY	---
EX OVERHEAD UTILITY RW	---
EX UTILITY POLE	---
EX GUY WIRE	---
EX TELEPHONE LINE	---
EX GASLINE	---
EX GASLINE RW	---
EX WATERLINE	---
EX WATER WELL	---
EX GAS WELL	---
EX TREELINE	---
EX REFERENCE TREE	---
EX DELINEATED STREAM	---
EX DELINEATED WETLAND	---
EX BUILDING	---
PROP INDEX CONTOUR	---
PROP INTERMEDIATE CONTOUR	---
PROP CUT LINE	---
PROP FILL LINE	---
PROP LIMITS OF DISTURBANCE	---
ENVIRONMENTAL ASSESSMENT AREA OF DELINEATION	---
PROP WELL HEAD	---
PROP CONTAINMENT BERM	---
PROP ROAD CENTERLINE	---
PROP CULVERT	---
PROP RIP-RAP OUTLET PROTECTION	---
PROP COMPOST FILTERSOCK	---
PROP ROCK CONSTRUCTION ENTRANCE	---
X-SECTION GRID INDEX	---
X-SECTION GRID INTERMEDIATE	---
X-SECTION PROPOSED GRADE	---
X-SECTION EXISTING GRADE	---

Received  
Office of Oil & Gas

JAN 06 2015

## OPERATOR

EQT PRODUCTION COMPANY  
OPERATOR ID: 30686  
P.O. BOX 280  
BRIDGEPORT, WV 26330  
PHONE: (204) 348-3870

## ENGINEER

STANTEC CONSULTING, INC.  
111 ELKINS STREET  
FARMINGTON, WV 26034  
PHONE: (204) 347-9451

## SURVEYOR

SMITH LAND SURVEYING, INC.  
12 VANHORN DRIVE  
PO BOX 150  
GLENVILLE, WV 26031  
PHONE: (204) 462-5834

DATE: 12/10/2014

SCALE AS SHOWN

DESIGNED BY: RAN

FILE NO. SLS-8036

SHEET 1 OF 30

REV

TITLE SHEET  
EQT OXF 44  
SOUTHWEST DISTRICT  
DODDGE COUNTY, WV

Professional Energy Consultants  
SLS  
SOUTHWEST DISTRICT  
DODDGE COUNTY, WV

Stantec  
CONSULTING  
ENGINEERS  
ARCHITECTS  
PLANNERS  
ENVIRONMENTAL  
SCIENTISTS

OXF-44 SITE AS-BUILT  
EQT PRODUCTION COMPANY

SITUATE ON THE WATERS OF TRIBUTARY OF STRAIGHT FORK IN  
SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA.

ORIG NORTH AND  
SURVEYED ELEVATIONS  
SHOWN HEREON WERE  
ESTABLISHED BY DOP'S  
SURVEY CRACK



## SHEET INDEX

- 1 - COVER SHEET
- 2 - ACCESS ROAD
- 3 - ACCESS ROAD
- 4 - ACCESS ROAD
- 5 - ACCESS ROAD
- 6 - ACCESS ROAD, PAD & FLOWBACK PIT
- 7 - ACCESS ROAD PROFILE

SHEET 2

SHEET 3

SHEET 4

SHEET 7

SHEET 5

OXF-44 LOCATION COORDINATES

```

ACCESS ROAD
LATITUDE 39.135589 LONGITUDE -80.826685 (NAD 27)
LATITUDE 4309322.7 LONGITUDE 823054.2 (UTM NAD 83)

WELL PAD
LATITUDE 39.145112 LONGITUDE -80.814273 (NAD 27)
LATITUDE 4309967.9 LONGITUDE 823268.6 (UTM NAD 83)

COMPLETION PIT
LATITUDE 39.142902 LONGITUDE -80.813028 (NAD 27)
LATITUDE 4309703.1 LONGITUDE 822834.4 (UTM NAD 83)

ASSOCIATED IMPROVEMENT
LATITUDE 39.144607 LONGITUDE -80.815083 (NAD 27)
LATITUDE 4309818.9 LONGITUDE 823435.3 (UTM NAD 83)

```

**LEGEND**

- 
- - - - - AS-BUILT LIMITS OF DISTURBANCE  
 - - - - - LIMITS OF DISTURBANCE  
 ~~~~~ BRUSH FILE  
 ——— CENTERLINE OF DRAIN  
 ——— PROPERTY LINE  
 ——— EDGE OF GRAVEL  
 ——— EXISTING CURB/VENT (JOB HISTORY)  
 ——— COMPOST FILTER ROCK (JOB HISTORY)  
 ——— SUPER SALT FENCE  
 R/R R/P  
 ——— TOP OF BENCH  
 ——— GRAVEL  
 ——— AS-BUILT 2' CONTOURS  
 ○ PROPOSED WELL LOCATIONS  
 ○ PERMITTED WELL LOCATION

#### SURVEY NOTE

I. THE CERTIFICATION OF THIS DRAWING APPLIES ONLY TO THE TOPOGRAPHIC MAPPING AS GENERATED FROM THE FIELD DATA OBTAINED AT THE TIME OF THE FIELD SURVEYS ON D40274, D50974, D60974, D80974, D90974, D00974, D10974, D20974, D30974, D40974, D50974, D60974, D70974, D80974, D90974 AND F00274.



Received  
Office of Oil & Gas

JAN 06 2006  
200 400 600

Professional Energy Consultants  
A QUINCY SMITH AND ASSOCIATES, INC.

**Professional Energy Consultants**  
A DIVISION OF SATHLUND-SATHLUND, INC.

**SLS**

**SURVIVORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.**

www.slsurvivors.com

(704) 462-1616

THIS DOCUMENT WAS  
PREPARED BY:  
SMITH LAND  
SURVEYING, INC  
FOR EQT

**OXF-44 SITE  
AS-BUILT**

|                     |
|---------------------|
| DATE: 11/05/14      |
| SCALE: 1"=200'      |
| DESIGNED BY: K.E.S. |
| FILE NO. 8228       |
| SHEET: 1 OF 8       |