API Number: 17-06709

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

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 within 30 days of commencement of drilling.

west virginia department of environmental protection

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

April 10, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706709, 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: 514179
Farm Name: LOCKE, CHARLES & OSBURN, D
API Well Number: 47-1706709
Permit Type: Horizontal 6A Well
Date Issued: 04/10/2015

Promoting a healthy environment.

API Number: 17-06709

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

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 within 30 days of commencement of drilling.

WW - 6B
(9/13)

4701706709

12/29

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: 514179 Well Pad Name: OXF164

3) Farm Name/Surface Owner : Charles D Locke & Donald & Barbara Osburn Public Road Access: CR 21

4) Elevation, current ground: 1,190.0 Elevation, proposed post-construction: 1,170.5

5) Well Type: (a) Gas • Oil _____ Underground Storage _____

Other _____

(b) If Gas: Shallow • Deep _____

Horizontal •

DCN
1-9-2015

6) Existing Pad? Yes or No: no

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

Target formation is Marcellus at a depth of 6549 with the anticipated thickness to be 58 feet and anticipated target pressure of 2951 PSI

8) Proposed Total Vertical Depth: 6679
9) Formation at Total Vertical Depth: Onondaga
10) Proposed Total Measured Depth: 10,359
11) Proposed Horizontal Leg Length 2,640
12) Approximate Fresh Water Strata Depths: 101, 277, 323, 403
13) Method to Determine Fresh Water Depth: By offset wells
14) Approximate Saltwater Depths: 1,817
15) Approximate Coal Seam Depths: 63, 238
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?
(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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Office of Oil & Gas
JAN 16 2015

4701706709

CASING AND TUBING PROGRAM

18)

TYPE	Size (in)	New or Used	Grade	Weight per 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	996	996	865 C.T.S.
Coal	–	–	–	–	–	–	–
Intermediate	9 5/8	New	MC-50	40	5,203	5,203	2,044 C.T.S.
Production	5 1/2	New	P-110	20	10,359	10,359	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	2,480	* See Note 2	1.21
Coal						
Intermediate	9 5/8	12 3/8	0.395	3,590	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing						
Liners						

DCN
1-9-2015

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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JAN 16 2015

WW - 6B

(3/13)

4701706709

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 6679'.

Tag the Onondaga not more than 100', run logs, then plug back with a solid cement plug to approximately 4207'. Then kick off

the horizontal leg into the Marcellus formation 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): 24.73

22) Area to be disturbed for well pad only, less access road (acres): 11.34

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 cent 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.

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Office of Oil and Gas
DEC 29 2014
WV Department of
Environmental Protection

*Note: Attach additional sheets as needed.

47-01706709

EQT

December 23, 2014

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

Re: Casing on OXF164 (514179)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 996' KB, 50' below the deepest red rock without setting below elevation. This will cover up red rock formations that have given EQT drilling issues in the past. We will set the 9-5/8" intermediate string at 5203' KB, 50' below the base of the Alexander formation on the pilot hole well.

Prior to cementing the 9 5/8" casing, a test will be performed to determine if a deep 9 5/8" casing string is needed. If the test is successful, the remaining wells on the pad will have 9 5/8" casing set at a shallower depth of 2637' KB, 50' below the 30 Foot Sand formation. If the test is unsuccessful, the remaining wells on the pad will have 9 5/8" casing set at the original set depth of 5203' KB. Upon completion of the test, the WV DEP inspector will be notified of the test results and the casing depth for the remaining wells on the pad will be discussed.

Any additional wells on this pad will be dependent on the results of this test.

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

Sincerely,

Vicki Roark
Permitting Supervisor - WV

Received
Office of Oil & Gas
JAN 06 2015

Enc.

4701706709

west virginia department of environmental protection

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
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 "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

Sincerely,

James Peterson by GCS

James Peterson
Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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Office of Oil and Gas
DEC 29 2014
WV Department of
Environmental Protection

4701706709

west virginia department of environmental protection

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
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.h. 4/5/6/8 OF THE	)	
THE OPERATIONAL	)	
REGULATIONS OF CEMENTING OIL	)	
AND GAS WELLS	)	

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

1.) Nabors Completion & Production Services Co. proposes the following cement blend:

- 2% Calcium Chloride (Accelerator)
- 0.25 % Super Flake (Lost Circulation)
- 94% Type "1" Cement
- 5.20 % Water

2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

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Office of Oil and Gas
DEC 29 2014
WV Department of
Environmental Protection

CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief
Office of Oil and Gas

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Office of Oil and Gas

DEC 29 2014

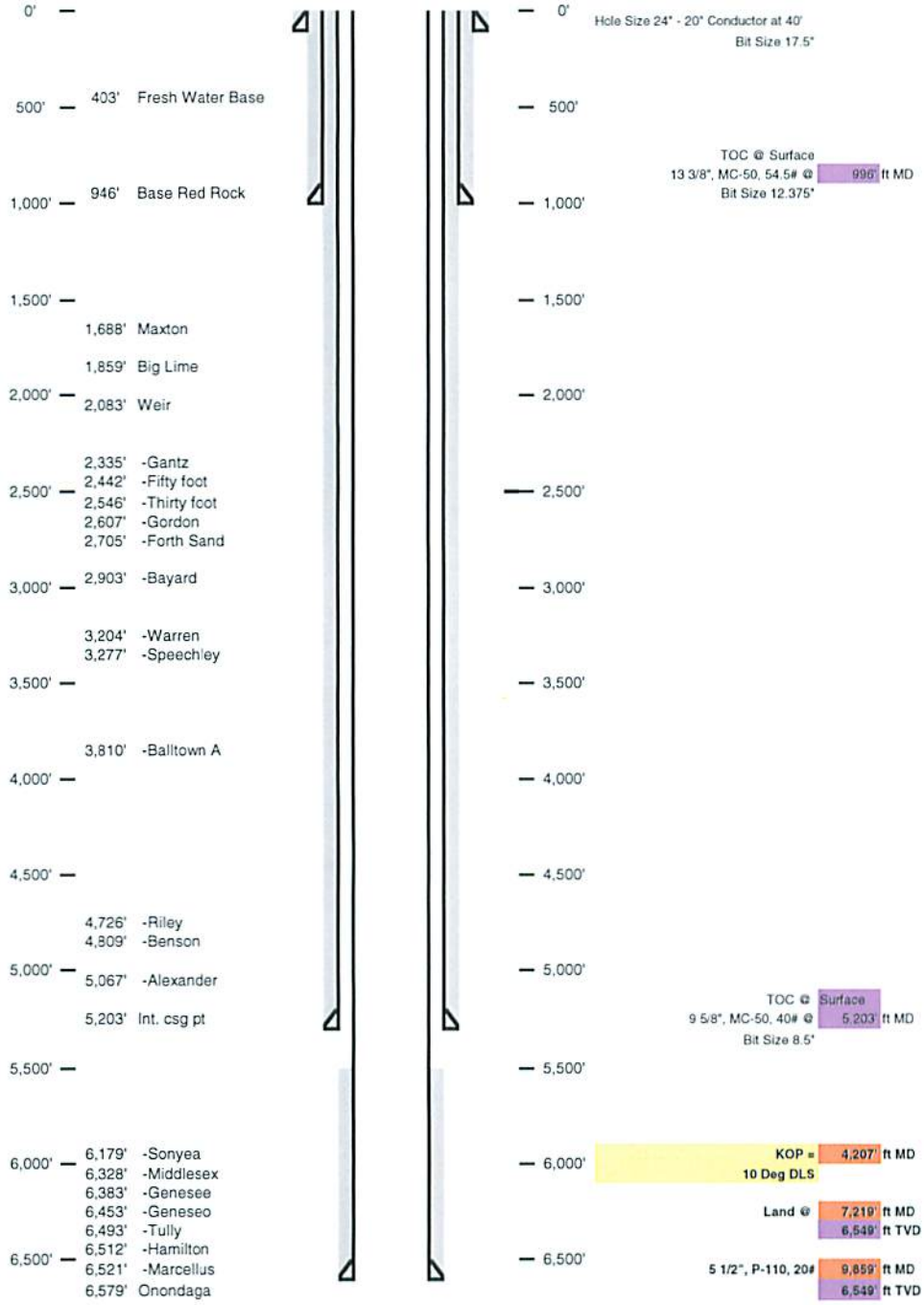
WV Department of
Environmental Protection

4701706709

Well Schematic
EQT Production

Well Name	514179(OXF164H1)
County	Doddridge
State	West Virgina

Elevation KB:	1184
Target	Marcellus
Prospect	
Azimuth	165
Vertical Section	2701



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DEC 28 2014
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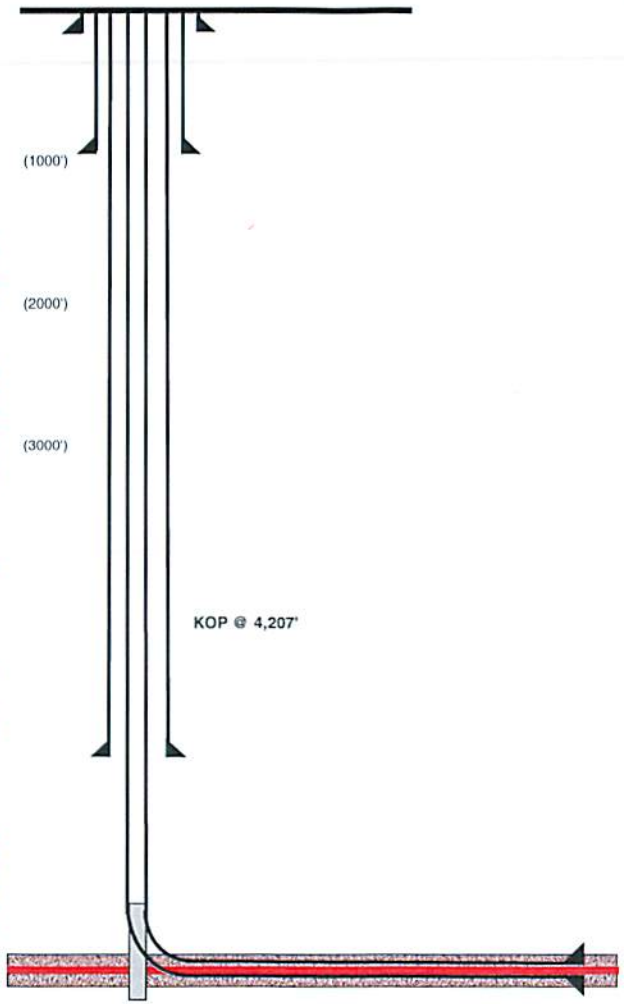
Well 514179(OXF164H1)
EQT Production
Oxford
Doddridge West Virgina

Azimuth 165
Vertical Section 2701

TVD Depth (feet)	Formation Tops (TVD)		
0'			
250'			
	Base Fresh Water	403	
500'			
750'			
	Base Red Rock	946	
1,000'			(1000')
1,250'			
1,500'			
	Maxton	1688 - 1804	
1,750'			
	Big Lime	1859 - 1995	
2,000'	Weir	2083 - 2272	(2000')
2,250'			
	-Gantz	2335 - 2408	
2,500'	-Fifty foot	2442 - 2504	
	-Thirty foot	2546 - 2587	
2,750'	-Gordon	2607 - 2624	
	-Forth Sand	2705 - 2732	
3,000'	-Bayard	2903 - 2927	(3000')
	-Warren	3204 - 3265	
3,250'	-Speechley	3277 - 3370	
3,500'			
3,750'			
	-Balltown A	3810 - 3904	
4,000'			
4,250'			
4,500'			
	-Riley	4726 - 4756	
4,750'			
	-Benson	4809 - 4841	
5,000'	-Alexander	5067 - 5153	
	Int. csg pt	5203	
5,250'			
5,500'			
5,750'	-Sonyea	6179 - 6328	
	-Middlesex	6328 - 6383	
6,000'	-Genesee	6383 - 6453	
	-Geneseo	6453 - 6493	
6,250'	-Tully	6493 - 6512	
	-Hamilton	6512 - 6521	
6,500'	Marcellus top	6521	
	Target Inside Marcellus	**6549**	
6,750'	Marcellus Bottom	6579	
7,000'			



Hole Size (inches)	Casing Type	Size (inches)	Wt (ppf)/Grade
24	Conductor	20	81#/MC-50
17 1/2	Surface	13 3/8	54#/MC-50
12 3/8	Intermediate	9 5/8	40#/MC-50
8 1/2	Production Casing	5 1/2	20#/P-110

Land curve @ 6,549' ft TVD
7,219' ft MD

Est. TD @ 6,549' ft TVD
9,859' ft MD

2,640' ft Lateral

Proposed Well Work:
Drill and complete a new horizontal well in the Marcellus formation.
The vertical drill to go down to an approximate depth of 6679'.
Tag the Onondaga not more than 100', run logs, then plug back with a solid cement plug to approximately 4207'.
Then kick off the horizontal leg into the Marcellus formation using a slick water frac.

4701706709

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DEC 26 2014
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Environmental Protection

4701706709

WW-9
(5/13)

API No. 47 - 017 - 0
Operator's Well No. 514179

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name EQT Production Company OP Code 306686

Watershed (HUC10) Lower Run of Middle Fork & Jims Run of Upper Run Quadrangle Oxford 7.5

Elevation 1170.5 County Doddridge District Southwest

Do 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 solids

Will 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)

DCN 1-9-2015

Will 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, Viscosifer, 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, viscosifer, alkalinity control, lime, chloride salts, rate filtration control, deflocculant, lubricant, detergent, defoaming, walnut shell, x-cide, SOLTEX terra

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

- If left in pit and plan to solidify what medium will be used? (Cement, Lime, sawdust) n/a
- Landfill or offsite name/permit number? See Attached List

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 ___
Company Official (Typed Name) Victoria J. Roark
Company Official Title Permitting Supervisor

Subscribed and sworn before me this 23 day of December, 20 14

Kathy M. Kugel
Notary Public

My commission expires 8-24-2022

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Kathy M Kugel
PO Box 109
Davis, WV 26260
My Commission Expires August 24, 2022

Received
Office of Oil & Gas
JAN 16 2015

4701706709

WW-9

Operator's Well No. 514179

Proposed Revegetation Treatment: Acres Disturbed 24.73 Prevegetation pH 5.9

Lime 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 Newlon

Comments: install E+S Preseed & Mulch any disturbed areas to W. Dep regulations

Title: Oil & Gas inspector Date: 1-9-2015

Field Reviewed? (✓) Yes ( ) No

Received
Office of Oil & Gas
JAN 16 2015

4701706709

EQT

Where energy meets innovation.™

Site Specific Safety Plan

EQT OXF 164 Pad

Oxford
Doddridge County, WV

For Wells:

514179

Date Prepared: **September 30, 2014**

EQT Production
Permitting Supervisor
Title
12-23-14
Date

Douglas Newlon
WV Oil and Gas Inspector
Title
1-9-2015
Date

Received
Office of Oil & Gas
JAN 16 2015

EQT Production Water plan
Offsite disposals for Marcellus wells

4701706709

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

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

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

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

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

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

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

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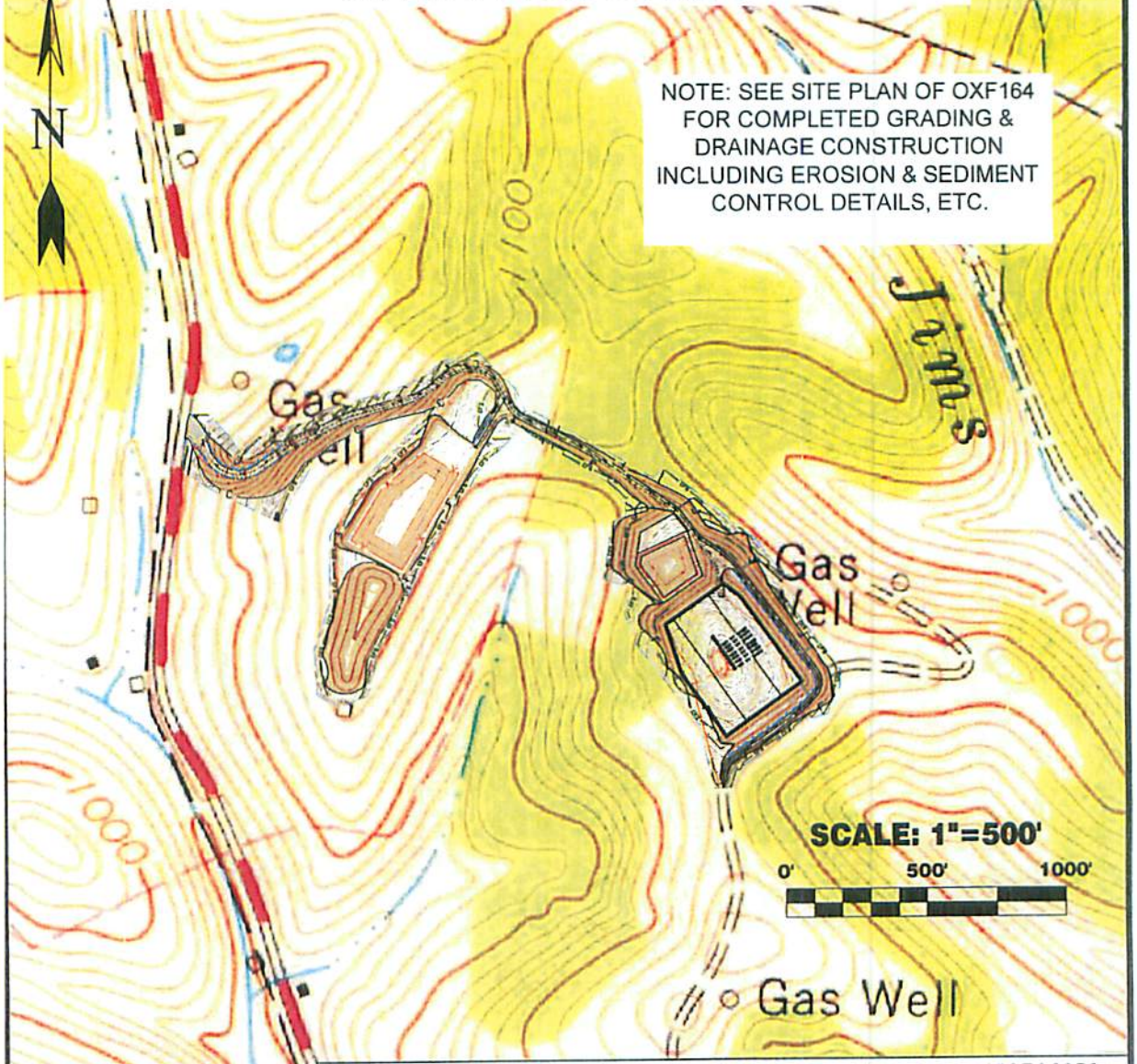
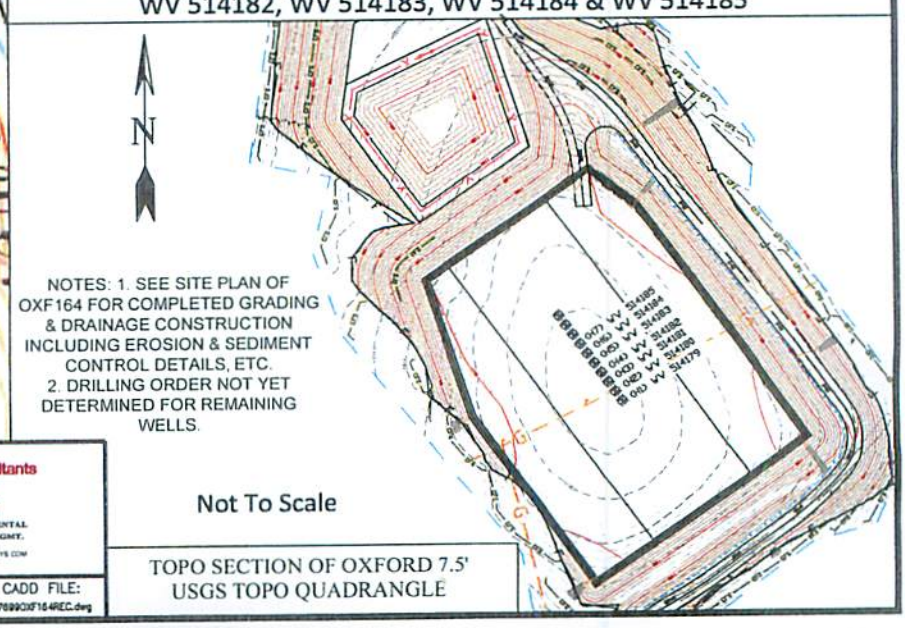
Form WW-9 4701706709 page of

J. LEESON LEASE
WELL NO.S WV 514179, WV 514180, WV 514181, WV 514182, WV 514183, WV 514184 & WV 514185



Detail Sketch for Proposed Wells WV 514179, WV 514180, WV 514181 WV 514182, WV 514183, WV 514184 & WV 514185



TOPO SECTION OF OXFORD 7.5' USGS TOPO QUADRANGLE

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING INC
SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
(304) 462-8434 WWW.SLSSURVEYS.COM

DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	7699	11-21-14	7699OXF164REC.dwg

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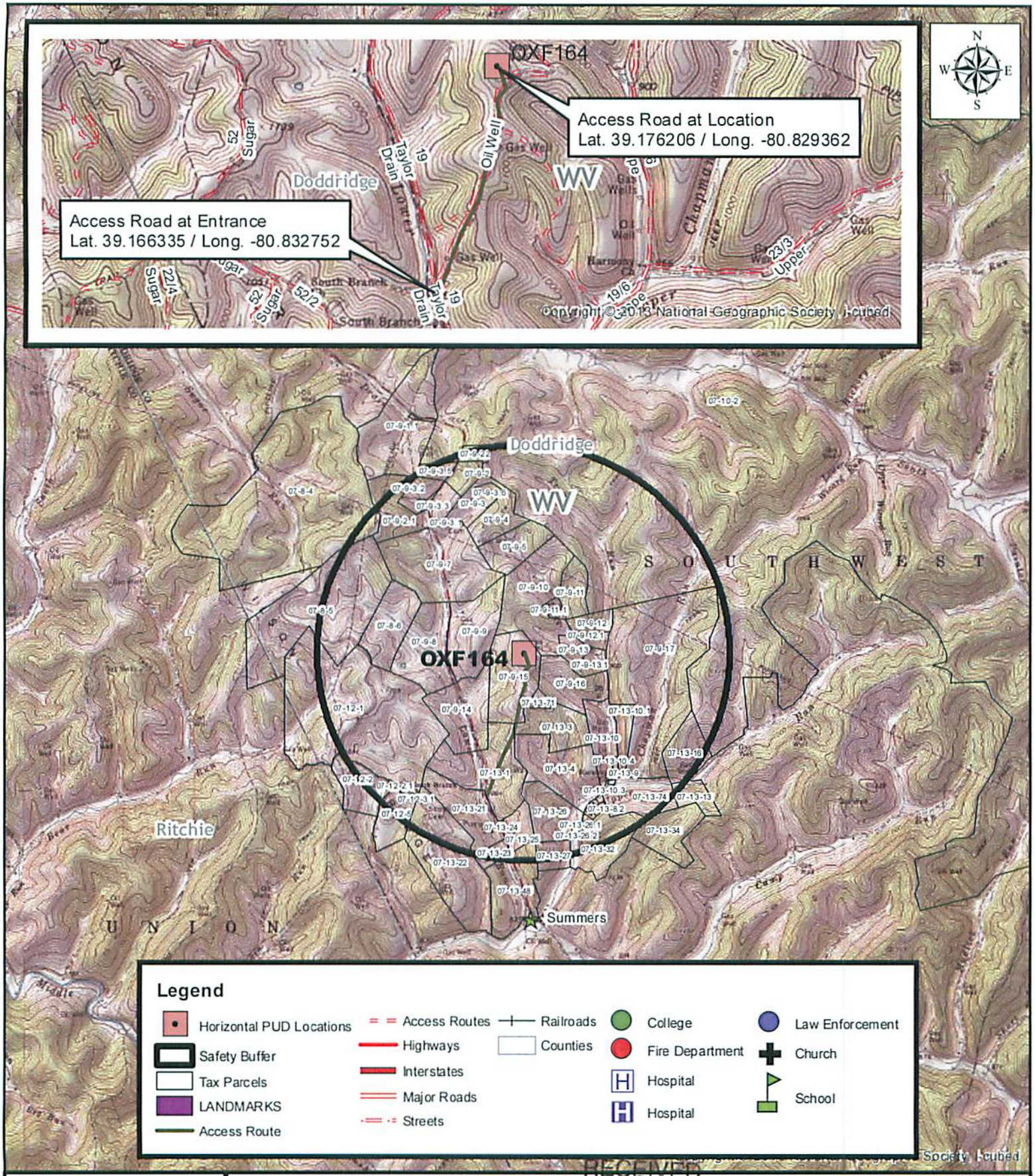

EQT

EQT Production
White Oaks Office
120 Professional Place
Bridgeport, WV 26330

Site Safety Plan

OXF164
One Mile Safety Buffer

Created By: SBrooks
Printed By: sbrooks on 1/21/2014
Map Date:
Qgis Lanid GIS - Wh Oak Office

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DISCLAIMER
ALL INFORMATION DEPICTED ON THIS MAP PROVIDED BY EQT (SAID TERM SHALL MEAN EQT PRODUCTION OR EQT MIDSTREAM, DEPENDING ON WHICH EQT ENTITY PROVIDED THE MAP) IS FOR INFORMATION PURPOSES ONLY AND SHALL BE TREATED AS CONFIDENTIAL INFORMATION AND SHALL ONLY BE USED FOR THE SOLE PURPOSE FOR WHICH IT WAS PROVIDED. ANY OTHER USE OF THIS MAP, OR THE INFORMATION INCLUDED THEREON, IS STRICTLY PROHIBITED. THE EXACT LOCATION OF THE FACILITIES (INCLUDING BUT NOT LIMITED TO WELLS, PIPELINES, STRUCTURES, FACILITIES, LEASE BOUNDARIES OR ANY OTHER INFORMATION SHOWN ON THIS MAP SHALL NOT BE RELIED UPON FOR THE SPECIFIC LOCATION OF THE [illegible] THE INFORMATION SHOWN ON THE MAP MAY NOT HAVE BEEN PLACED ON THE MAP USING SURVEY LINES OR GPS COORDINATES. EQT MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF THE MAP, OR THE INFORMATION SHOWN THEREON. THE SPECIFIC LOCATION OF ANY OF THE INFORMATION, INCLUDING ANY WELL, PIPELINE, STRUCTURE, FACILITY OR LEASE BOUNDARY, SHOULD BE [illegible] LICENSED SURVEYOR UPON CONSULTATION WITH EQT. THIS MAP MAY NOT BE COPIED OR OTHERWISE [illegible] WITHOUT WRITTEN CONSENT FROM EQT. RECIPIENT EXPRESSLY AGREES THAT ITS USE AND/OR RETAINER OF THIS MAP SHALL BE DEEMED ITS ASSENT TO THE TERMS SET FORTH ABOVE.

File: N:\GIS\CSD gis\gis\GIS_Department\Projects\Production\WV\PERMITTING\MXD\Site_Safety_Plan\OXF164\SITE_SAFETY_BASE_MAP_OXF164.mxd

WW-6A1
(5/13)

Operator's Well No. 4701706709 514179

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

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

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
107441			Min 1/8 pd	
	J. S. Britton & M. J. Britton	U. G. Summers		LB22/438
	U. G. Summers	The Fisher Oil Co.		LB22/438
	The Fisher Oil Co.	The Philadelphia Oil Co.		LB24/64
	The Philadelphia Oil Co.	Pittsburgh & West Virginia Gas Co.		LB32/253
	Pittsburgh & West Virginia Gas Co.	Equitable Gas Co.		DB121/257
	Equitable Gas Co.	Equitrans, Inc.		LB154/475
	Equittrans, Inc.	Equitable Production-Eastern States, Inc.		LB192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB281/346
	Equitable Production Company	EQT Production Co.		CB281/346

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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

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

WW-6AC
(1/12)

4701706709

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

Date of Notice Certification: 12-23-14

API No. 47 - 017 - 0
Operator's Well No. 514179
Well Pad Name: OXF164

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:	WV	UTM NAD 83 Easting:	514,749.40
County:	Doddridge	UTM NAD 83 Northing:	4,336,333.90
District:	Southwest	Public Road Access:	CR 21
Quadrangle:	Oxford 7.5	Generally used farm name:	Charles D Locke & Donald & Barbara Osburn
Watershed:	Lower Run of Middle Fork & Jims Run of Upper Run		

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:		OOG OFFICE USE ONLY
*PLEASE CHECK ALL THAT APPLY		
☐ NOTICE OF SEISMIC ACTIVITY or	☑ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/NOT REQUIRED
☑ NOTICE OF ENTRY FOR PLAT SURVEY or	☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☐ NOTICE OF INTENT TO DRILL or	☑ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR	☐ RECEIVED/NOT REQUIRED
	☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
☑ NOTICE OF PLANNED OPERATION		☐ RECEIVED
☑ PUBLIC NOTICE		☐ RECEIVED
☑ NOTICE OF APPLICATION		☐ RECEIVED

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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.

WW-6AC
(1/12)

4701706709

Certification of Notice is hereby given:

THEREFORE, I _____, 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	Address:	P.O. Box 280
By:	Victoria J. Roark		Bridgeport, WV 26330
Its:	Permitting Supervisor	Facsimile:	304-848-0040
Telephone:	304-848-0076	Email:	vroark@eqt.com

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Kathy M Kugel
PO Box 109
Davis, WV 26260
My Commission Expires August 24, 2022
NOTARY SEAL

Subscribed and sworn before me this 23 day of December 2014

Kathy M. Kugel Notary Public

My Commission Expires 8-24-2022

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Kathy M Kugel
PO Box 109
Davis, WV 26260
My Commission Expires August 24, 2022

4701706709

WW-6A
(9-13)

API NO. 47 - 017 - 0
OPERATOR WELL NO. 514179
Well Pad Name: OXF164

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 12-23-14 Date Permit Application Filed: 12-23-14

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Notice of:

☑ PERMIT FOR ANY WELL WORK

☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

☐ PERSONAL SERVICE

☐ REGISTERED MAIL

☑ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a 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: Charles David Locke
Address: 669 Westview Ave
Morgantown, WV 26505
(see attached for additional owners)

Name: 0
Address: 0
0
0

☑ SURFACE OWNERS(s) (Road and/or Other Disturbance)
Name: Charles David Locke
Address: 669 Westview Ave
Morgantown, WV 26505
(see attached for additional owners)
Name: 0
Address: 0
0
0

☑ SURFACE OWNER(s) (Impoundments/Pits)
Name: Charles David Locke
Address: 669 Westview Ave
Morgantown, WV 26505
(see attached for additional owners)

☑ COAL OWNER OR LESSEE
Name: Charles David Locke
Address: 669 Westview Ave
Morgantown, WV 26505
(see attached for additional owners)

☐ COAL OPERATOR
Name:
Address:

☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Barbara Osborne
Address: 1371 Harmony Road
West Union, WV 26456
(see attached for additional owners)

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

*Please attach additional forms if necessary

WW-6A
(8-13)

API NO. 47 - 017 - 0170670900
OPERATOR WELL NO. 514179
Well Pad Name: OXF164

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Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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.

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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.

4701706709

API NO. 47 - 017 - 0
OPERATOR WELL NO. 514179
Well Pad Name: OXF164

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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Notice is hereby given by:

Well Operator:	EQT Production Company	Address:	115 Professional Place P.O. Box 280
Telephone:	304-848-0082		Bridgeport, WV 26330
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.

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

Its: Permitting Supervisor

Subscribed and sworn before me 23 day of December, 2014

Kathy M. Kugel Notary Public

My Commission Expires 8/24/2022

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Kathy M Kugel
PO Box 109
Davis, WV 26260
My Commission Expires August 24, 2022

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OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Kathy M Kugel
PO Box 109
Davis, WV 26260
My Commission Expires August 24, 2022

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WW6-A

Additional Surface Owners:

Donald E & Barbara H Osburn
29773 Chilcutt Road
Easton MD 21601

Additional Surface Owners: Access Road

Donald E & Barbara H Osburn
29773 Chilcutt Road
Easton MD 21601

Barbara Osborne
1371 Harmony Road
West Union, WV 26456

Additional Surface Owners: Pit

Donald E & Barbara H Osburn
29773 Chilcutt Road
Easton MD 21601

Additional Coal Owners

Donald E & Barbara H Osburn
29773 Chilcutt Road
Easton MD 21601

Additional Water Purveyors

William Jenkins
207 Edmond Street
West Union, WV 26456

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APN	OWNER	ADDR	CITY	STATE	ZIP	PHONE NUMBER
07-13-27	CORDINE JOHN D & DEBRA J	ROUTE 19/6	WEST UNION	WV	26456	(765) 886-5910
07-13-74	COPELAND BRADLEY A SR & WAYNE	ROUTE 23/3	WEST UNION	WV	26456	(304) 349-4440
07-9-12	HARRIS STEPHEN M & DEBORAH A	ROUTE 19/6	WEST UNION	WV	26456	(304) 349-2071
07-8-5	DESIST SAMUEL & THERESA F	ROUTE 52	WEST UNION	WV	26456	(304) 349-2009
07-13-48	MORAN SAMMY & JUDITH	52 ROUTE 19	WEST UNION	WV	26456	(304) 873-2779
07-9-9	LOCKE SHERYL ANN & CHARLES DAVID	ROUTE 19	WEST UNION	WV	26456	(304) 598-2790
07-13-9.1	HARMONY M E CHURCH	6 ROUTE 19 OVER	WEST UNION	WV	26456	*NOT LISTED*
07-9-1.1	OSBORNE MARVIN W	ROUTE 19	WEST UNION	WV	26456	(304) 349-4358
07-9-16	JENKINS WILLIAM C	ROUTE 19/6	WEST UNION	WV	26456	(304) 873-1859
07-13-1	LEESON MANSFIELD L & DEBRA L	ROUTE 19	WEST UNION	WV	26456	(304) 349-4943
07-13-8.2	LOWTHER RUSTY & WILMA	ROUTE 19/6	WEST UNION	WV	26456	(304) 349-2102
07-13-8.1	LOWTHER ROY LEE	ROUTE 19/6	WEST UNION	WV	26456	(304) 349-2033
07-9-22	CNG TRANSMISSION CORP	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-9-3.1	LEGGETT JUANITA M	OFF RT 19	WEST UNION	WV	26456	(304) 349-4382
07-13-10.1	CASSIDY JOAN H TRUST	6 ROUTE 19 OVER	WEST UNION	WV	26456	(304) 349-2612
07-9-3	HILEMAN LEO RAY	ROUTE 19	WEST UNION	WV	26456	(304) 349-5584
07-13-34	BROWN W R	OFF RT 19	WEST UNION	WV	26456	(304) 873-1158
07-13-10.2	MEADE LILLIAN	6 ROUTE 19 OVER	WEST UNION	WV	26456	(304) 349-2674
07-12-2	BALL DAVID DALE JR & RHONDA	ROUTE 52	WEST UNION	WV	26456	(304) 349-4685
07-13-21	SEEDS ERNEST F & FRANCIS	ROUTE 19	WEST UNION	WV	26456	(304) 349-4395
07-13-26	CORDINE JOHN D & DEBRA J	ROUTE 19/6	WEST UNION	WV	26456	(765) 886-5910
07-12-1	BALL DAVID DALE ET UX	ROUTE 52	WEST UNION	WV	26456	(304) 349-4685
07-9-12.1	HARRIS STEPHEN M & DEBORAH A	ROUTE 19/6	WEST UNION	WV	26456	(304) 349-2071
07-13-13	GASTON SAMUEL D	3 ROUTE 23 OVER	WEST UNION	WV	26456	(304) 363-2605
07-10-2	MORRIS I L IKE	ROUTE 23	WEST UNION	WV	26456	(304) 349-2150
07-13-16	GASTON SAMUEL D	3 ROUTE 23 OVER	WEST UNION	WV	26456	(304) 363-2605
07-9-3.5	HILEMAN MARK ALLEN	ROUTE 19	WEST UNION	WV	26456	(304) 349-5636
07-12-5	RICHARDS MITCHELL L & CYNTHIA F	ROUTE 52	WEST UNION	WV	26456	(304) 349-2179
07-13-22	MCCLOY WILLARD H	52 ROUTE 1 RT	WEST UNION	WV	26456	*NOT LISTED*
07-9-10	OSBORNE DELBERT & BARBARA	6 ROUTE 19	WEST UNION	WV	26456	(304) 349-4251
07-9-13	RAMEY ANTHONY	19/6	WEST UNION	WV	26456	*NOT LISTED*
07-9-11.1	OSBORNE DELBERT & BARBARA JEAN	ROUTE 19/6	WEST UNION	WV	26456	(304) 349-4251
07-13-26.2	COX GARY K	ROUTE 19/6	WEST UNION	WV	26456	*NOT LISTED*
07-13-24	LOWTHER GEORGIA LIFE	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-13-23	LONG DANA ROGER	ROUTE 19	WEST UNION	WV	26456	(304) 349-4198
07-9-3.2	LEGGETT JUANITA M	ROUTE 19	WEST UNION	WV	26456	(304) 349-4382

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07-13-10.5	HARMONY M E CHURCH		WEST UNION	WV	26456	*NOT LISTED*
07-13-10.4	BOYCE JOSHUA L & TARA M		WEST UNION	WV	26456	(304) 349-2380
07-9-14	JUNKINS KERRY L & PATTY A	ROUTE 19	WEST UNION	WV	26456	(304) 349-2380
07-9-7	WEST HAZEL N	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-9-11	HARRIS STEPHEN M & DEBORAH	ROUTE 19/6	WEST UNION	WV	26456	(304) 349-2071
07-9-17	CASSIDY JOAN H TRUST	ROUTE 23/3	WEST UNION	WV	26456	(304) 349-2612
07-13-25	LOWTHER GEORGIA LIFE	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-13-8	LOWTHER ROY	ROUTE 19/6	WEST UNION	WV	26456	(304) 349-2033
07-13-5	LOWTHER ROY	6 ROUTE 19 OVER	WEST UNION	WV	26456	(304) 349-2033
07-13-71	LOCKE SHERYL ANN & CHARLES DAVID	OFF RT 19	WEST UNION	WV	26456	(304) 598-2790
07-12-3	SOUTH FORK CEMETERY	ROUTE 52	WEST UNION	WV	26456	*NOT LISTED*
07-13-10.3	MEADE LILLIAN	UPPER RUN	WEST UNION	WV	26456	(304) 349-2674
07-9-5	RICHARDS ASSET MANAGEMENT	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-9-8	BROWNFIELD ROBERT LEE JR & NINA ANN	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-9-3.6	HILEMAN JERRY		WEST UNION	WV	26456	*NOT LISTED*
07-13-10	HINZMAN HAROLD R & BONNY	6 ROUTE 19 OVER	WEST UNION	WV	26456	(304) 472-4352
07-9-4	RICHARDS ASSET MANAGEMENT	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-8-6	ADAMS ARCHIE W		WEST UNION	WV	26456	(304) 349-2602
07-13-26.1	BARTLETT JOSEPH KYLE JR	ROUTE 19/6	WEST UNION	WV	26456	*NOT LISTED*
07-8-4	GRAY JOHN M HRS ET AL	ROUTE 52	WEST UNION	WV	26456	*NOT LISTED*
07-9-2	JONES ICY EST	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-13-32	HUSK RANDAL DALE	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-12-2.1	TRUSTEES OF BAPTIST CHURCH	ROUTE 52/2	WEST UNION	WV	26456	*NOT LISTED*
07-13-9	CASSIDY JOAN H TRUST	3 ROUTE 23 OVER	WEST UNION	WV	26456	*NOT LISTED*
07-9-3.3	LEGGETT JUANITA MAE	ROUTE 19	WEST UNION	WV	26456	(304) 349-4382
07-9-13.1	SANCHEZ GARY B	ROUTE 19/6	WEST UNION	WV	26456	(304) 349-2325
07-9-3.4	LEGGETT JUANITA M HILEMAN	ROUTE 19	WEST UNION	WV	26456	(304) 349-4382
07-13-4	PAYNE JACQUELINE BUCKHANNON	6 ROUTE 19 OVER	WEST UNION	WV	26456	(216) 651-2128
07-13-3	JENKINS WILLIAM C	6 ROUTE 19 OVER	WEST UNION	WV	26456	(304) 873-1859
07-13-6	GREATHOUSE CHARLES R ET UX	6 ROUTE 19 OVER	WEST UNION	WV	26456	(304) 269-2466
07-12-3.1	SPIKER JACOB ET AL TRUSTEES	ROUTE 52	WEST UNION	WV	26456	*NOT LISTED*
07-9-2.1	WEST HAZEL N	ROUTE 19	WEST UNION	WV	26456	*NOT LISTED*
07-9-15	LOCKE SHERYL ANN & CHARLES DAVID	ROUTE 19	WEST UNION	WV	26456	(304) 598-2790

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SMITH LAND SURVEYING, INC. P.O. BOX 150, GLENVILLE, WV 26351
(304) 462-5634 • FAX 462-5656

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: *EQT Production Company*
LEASE NAME AND NUMBER: *OXF 164 Well Pad*

COMMENTS

The initial field and/or mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 2500' of the proposed well site. (For location of each site see attached area map.)

INDIVIDUAL CONTACTED OR NOTIFIED

Site: *1* Spacing *2425'* Owner/Occupant: *Stephen Harris*
Address: *1581 Harmony Road West Union, WV 26456* Ph: *(304)-349-4323*
Field Contact Date: *6/12/14* Located: *Yes* Date Located: *6/12/14* Source: *Water Well*
If No, declined by who _____ Letter/Notice Date: 1st *6/12/14* 2nd *N/A* Certified (3rd) *N/A*
Comments: *Northing : 39.178454*
Easting: 80.821307

Site: *2* Spacing *2130'* Owner/Occupant: *Stephen Harris*
Address: *1581 Harmony Road West Union, WV 26456* Ph: *(304)-349-4323*
Field Contact Date: *6/12/14* Located: *Yes* Date Located: *6/12/14* Source: *Pond*
If No, declined by who _____ Letter/Notice Date: 1st *6/12/14* 2nd *N/A* Certified (3rd) *N/A*
Comments. *Northing : 39.177382*
Easting : 80.822021

Site: *3* Spacing *3900'* Owner/Occupant: *Jackie Payne*
Address: *625 Harmony Road West Union, WV 26456* Ph: *(304)-349-4516*
Field Contact Date: *6/12/14* Located: *Yes* Date Located: *6/12/14* Source: *Water Well*
If No, declined by who _____ Letter/Notice Date: 1st *6/12/14* 2nd *N/A* Certified (3rd) *N/A*
Comments: *Northing : 39.166799*
Easting : 80.822925

Site: *4* Spacing *3860'* Owner/Occupant: *Jackie Payne*
Address: *625 Harmony Road West Union, WV 26456* Ph: *(304)-349-4516*
Field Contact Date: *6/12/14* Located: *Yes* Date Located: *6/12/14* Source: *Water Well*
If No, declined by who _____ Letter/Notice Date: 1st *6/12/14* 2nd *N/A* Certified (3rd) *N/A*
Comments: *Northing : 39.166768*
Easting : 80.823322

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Site: 5 Spacing 3630' Owner/Occupant: Jackie Payne
Address: 625 Harmony Road West Union, WV 26456 Ph: (304)-349-4516
Field Contact Date: 6/12/14 Located: Yes Date Located: 6/12/14 Source: Spring
If No, declined by who _____ Letter/Notice Date: 1st 6/12/14 2nd N/A Certified (3rd) N/A
Comments. Northing : 39.167052
Easting : 80.824486

Site: 6 Spacing 3900' Owner/Occupant: Jackie Payne
Address: 625 Harmony Road West Union, WV 26456 Ph: (304)-349-4516
Field Contact Date: 6/12/14 Located: Yes Date Located: 6/12/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 6/12/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.166292
Easting : 80.824337

Site: 7 Spacing 3965' Owner/Occupant: Jackie Payne
Address: 625 Harmony Road West Union, WV 26456 Ph: (304)-349-4516
Field Contact Date: 6/12/14 Located: Yes Date Located: 6/12/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 6/12/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.166083
Easting : 80.824412

Site: 8 Spacing 2260' Owner/Occupant: Robert Brownfield
Address: 2864 Taylor Drain Road West Union, WV 26456 Ph: (304)-349-4313
Field Contact Date: 6/13/14 Located: Yes Date Located: 6/13/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 6/13/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.176220
Easting : 80.837346

Site: 9 Spacing 2430' Owner/Occupant: Robert Brownfield
Address: 2864 Taylor Drain Road West Union, WV 26456 Ph: (304)-349-4313
Field Contact Date: 6/12/14 Located: Yes Date Located: 6/13/14 Source: Spring
If No, declined by who _____ Letter/Notice Date: 1st 6/12/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.175738
Easting : 80.837936

Site: 10 Spacing 2770' Owner/Occupant: Robert Brownfield
Address: 2864 Taylor Drain Road West Union, WV 26456 Ph: (304)-349-4313
Field Contact Date 6/12/14 Located: Yes Date Located: 6/13/14 Source: Pond
If No, declined by who _____ Letter/Notice Date: 1st 6/12/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.175665
Easting : 80.839124

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Site: 11 Spacing 4515' Owner/Occupant: Ray & Jerry Hileman
Address: RR1 Box 192 West Union, WV 26456 Ph: (304)-349-5584
Field Contact Date: 6/23/14 Located: Yes Date Located: 6/23/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.188347
Easting : 80.832885

Site: 12 Spacing 2095' Owner/Occupant. Gary Sanchez
Address: 1373 Harmony Road West Union, WV 26456 Ph: (304)-349-2325
Field Contact Date: 6/23/14 Located: Yes Date Located: 6/23/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.175426
Easting : 80.822070

Site: 13 Spacing 1975' Owner/Occupant. Gary Sanchez
Address: 1373 Harmony Road West Union, WV 26456 Ph: (304)-349-2325
Field Contact Date: 6/23/14 Located: Yes Date Located. 6/23/14 Source: Pond
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.175616
Easting : 80.822462

Site: 14 Spacing 1950' Owner/Occupant: Gary Sanchez
Address: 1373 Harmony Road West Union, WV 26456 Ph: (304)-349-2325
Field Contact Date: 6/23/14 Located: Yes Date Located. 6/23/14 Source: Creek
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments. Northing : 39.175945
Easting : 80.822512

Site: 15 Spacing 2040' Owner/Occupant. Gary Sanchez
Address: 1373 Harmony Road West Union, WV 26456 Ph: (304)-349-2325
Field Contact Date: 6/23/14 Located: Yes Date Located: 6/23/14 Source: Creek
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.176138
Easting : 80.822183

Site. 16 Spacing 1915' Owner/Occupant: Gary Sanchez
Address: 1373 Harmony Road West Union, WV 26456 Ph: (304)-349-2325
Field Contact Date. 6/23/14 Located: Yes Date Located: 6/23/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments. Northing : 39.175904
Easting : 80.822644

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Site: 17 Spacing 1985' Owner/Occupant: Barbara Osborne
Address: 1371 Harmony Road West Union, WV 26456 Ph: (304)-349-4251
Field Contact Date: 6/23/14 Located: Yes Date Located: 6/23/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.181652
Easting : 80.828373

Site: 18 Spacing 2230' Owner/Occupant: Barbara Osborne
Address: 1371 Harmony Road West Union, WV 26456 Ph: (304)-349-4251
Field Contact Date: 6/23/14 Located: Yes Date Located: 6/23/14 Source: Pond
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.182365
Easting : 80.828845

Site: 19 Spacing 2045' Owner/Occupant: Barbara Osborne
Address: 1371 Harmony Road West Union, WV 26456 Ph: (304)-349-4251
Field Contact Date: 6/23/14 Located: Yes Date Located: 6/23/14 Source: Spring
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.181641
Easting : 80.827326

Site: 20 Spacing 1415' Owner/Occupant: Barbara Osborne
Address: 1371 Harmony Road West Union, WV 26456 Ph: (304)-349-4251
Field Contact Date: 6/23/14 Located: Yes Date Located: 6/23/14 Source: Spring
If No, declined by who _____ Letter/Notice Date: 1st 6/23/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.177552
Easting : 80.824682

Site: 21 Spacing 2405' Owner/Occupant: Harold Hinzman
Address: 1191 Harmony Road West Union, WV 26456 Ph: (304)-349-4252
Field Contact Date: 7/7/14 Located: Yes Date Located: 7/7/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 7/7/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.172611
Easting : 80.822321

Site: 22 Spacing 2505' Owner/Occupant: Harold Hinzman
Address: 1191 Harmony Road West Union, WV 26456 Ph: (304)-349-4252
Field Contact Date: 7/7/14 Located: Yes Date Located: 7/7/14 Source: Spring
If No, declined by who _____ Letter/Notice Date: 1st 7/7/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.172451
Easting : 80.822022

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Site: 23 Spacing 3390' Owner/Occupant: Harold Hinzman
Address: 1191 Harmony Road West Union, WV 26456 Ph: (304)-349-4252
Field Contact Date: 7/7/14 Located: Yes Date Located: 7/7/14 Source: Spring
If No, declined by who _____ Letter/Notice Date: 1st 7/7/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.169193
Easting : 80.821606

Site: 24 Spacing 1190' Owner/Occupant: William Jenkins
Address: 207 Edmond Street West Union, WV 26456 Ph: (304)-873-1859
Field Contact Date: 7/7/14 Located: Yes Date Located: 7/7/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 7/7/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.174215
Easting : 80.826010

Site: 25 Spacing 3510' Owner/Occupant: Josh Boyce
Address: _____ Ph: (304)-349-2380
Field Contact Date: 7/7/14 Located: Yes Date Located: 7/7/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 7/7/14 2nd N/A Certified (3rd) N/A
Comments: Northing : 39.168842
Easting : 80.821474

Site: 26 Spacing 3470' Owner/Occupant: M. Leeson
Address: 3559 Taylor drain RD. West Union, WV 26456 Ph: (304)-349-4656
Field Contact Date: 7/11/14 Located: Yes Date Located: 7/11/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 6/19/14
Comments: Northing : 39.167037
Easting : 80.832453

Site: 27 Spacing 3490' Owner/Occupant: M. Leeson
Address: 3559 Taylor drain RD. West Union, WV 26456 Ph: (304)-349-4656
Field Contact Date: 7/11/14 Located: Yes Date Located: 7/11/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 6/19/14
Comments: Northing : 39.166975
Easting : 80.832414

Site: 28 Spacing 3505' Owner/Occupant: M. Leeson
Address: 3559 Taylor drain RD. West Union, WV 26456 Ph: (304)-349-4656
Field Contact Date: 7/11/14 Located: Yes Date Located: 7/11/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 6/19/14
Comments: Northing : 39.166967
Easting : 80.832582

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4701706709

Site: 29 Spacing 3500' Owner/Occupant: M. Leeson
Address: 3559 Taylor drain RD. West Union, WV 26456 Ph: (304)-349-4656
Field Contact Date: 7/11/14 Located: Yes Date Located: 7/11/14 Source: Spring
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 6/19/14
Comments: Northing : 39.166888
Easting : 80.832106

Site: 30 Spacing _____ Owner/Occupant: I.L. Morris
Address: P.O. Box 397 Glenville, WV 26351 Ph: (304)-462-5347
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A
Comments: Letter of refusal signed 7/16/14

Site: 31 Spacing _____ Owner/Occupant: Joan Cassidy Trust
Address: 727 S. high street Mount Orab, OH 45154 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 6/19/14
Comments: Tax Map 9, Parcel 17
No Response To Certified

Site: 32 Spacing _____ Owner/Occupant: Hazel West
Address: P.O. Box 146 Harrisville, WV 26362 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 6/19/14
Comments: No Response To Certified
Tax Map 9, Parcel 7

Site: 33 Spacing _____ Owner/Occupant: Kerry Junkins
Address: RT.1 Box 188 West Union, WV 26456 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 6/19/14
Comments: Tax Map 9, Parcel 14
No Response To Certified

Site: 34 Spacing _____ Owner/Occupant: Donald Osburn
Address: 29773 Chilcuhr Eastin, MD 21601 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 6/19/14
Comments: Tax Map 9, Parcels 9 and 15 also Tax Map 13, Parcel 71
Letter of refusal signed 6/24/14

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Site: 35 Spacing _____ Owner/Occupant: Anthony Ramey
Address: 658 Beulah RD. Morgantown, WV 26505 Ph: _____
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) 6/19/14
Comments: Tax Map 9, Parcel 13
No Response To Certified

Site: _____ Spacing _____ Owner/Occupant: _____
Address: _____ Ph: _____
Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
Comments: _____

Site: _____ Spacing _____ Owner/Occupant: _____
Address: _____ Ph. _____
Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
Comments: _____

Site: _____ Spacing _____ Owner/Occupant: _____
Address: _____ Ph: _____
Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
Comments: _____

Site: _____ Spacing _____ Owner/Occupant: _____
Address: _____ Ph: _____
Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
Comments: _____

Site: _____ Spacing _____ Owner/Occupant: _____
Address: _____ Ph: _____
Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
Comments: _____

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Environmental Protection

7699 OXF-164 EQT waterfinal pg 7

4701706709

SMITH LAND SURVEYING, INC. P.O. BOX 150, GLENVILLE, WV 26351
(304) 462-5634 • FAX 462-5656

To Whom It May Concern:

Smith Land Surveying, Inc. of Glenville, WV has been contracted by:

EQT

To do some preliminary work for a proposed oil and gas well permit application.

Due to 1994 regulations set by the State of West Virginia Division of Environmental Protection, Department of Oil and Gas, operators are required to offer water testing for water wells or other non-public water sources that fall within 1500 feet of the proposed well. The operator is testing within 2500 feet of the well, if they are requested to do so by the resident or owner. This test will only help ensure the water quality control, which in turn benefits you as the resident or landowner.

Since your residence falls within the 2500 foot radius, you are entitled to have your potable water source(s) sampled and analyzed at an independent lab. Your lab analysis results would then be mailed to your home. This is done at no expense to you.

Please notify Smith Land Surveying immediately if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the client and well number may be referenced.

Thank you for your cooperation in this matter. I look forward to hearing from you at your earliest convenience. If you have any questions, please feel free to contact me at:

Smith Land Surveying, Inc.
PO Box 150
Glenville, WV 26351
(304) 462-5634 (voice)
(304) 462-5656 (fax)
E-Mail DMcKee@slssurveys.com

Date: 7/9/14

Left/sent by: Daniel McKee

Well Number: OXF-164

Tax Map / Parcel: 10/ 2

Dodridge County, WV Southwest District

*If you do not have a water well or other non-public water source, please make note of it and include your name and address when you return this sheet.

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined.

Signature: A. L. Morris Date: 7/16/14

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SMITH LAND SURVEYING, INC. P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5656

To Whom It May Concern:

Smith Land Surveying, Inc. of Glenville, WV has been contracted by:

EQT

To do some preliminary work for a proposed oil and gas well permit application.

Due to 1994 regulations set by the State of West Virginia Division of Environmental Protection, Department of Oil and Gas, operators are required to offer water testing for water wells or other non-public water sources that fall within 1500 feet of the proposed well. The operator is testing within 2500 feet of the well, if they are requested to do so by the resident or owner. This test will only help ensure the water quality control, which in turn benefits you as the resident or landowner.

Since your residence falls within the 2500 foot radius, you are entitled to have your potable water source(s) sampled and analyzed at an independent lab. Your lab analysis results would then be mailed to your home. This is done at no expense to you.

Please notify Smith Land Surveying immediately if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the client and well number may be referenced.

Thank you for your cooperation in this matter. I look forward to hearing from you at your earliest convenience. If you have any questions, please feel free to contact us.

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Environmental Protection

Smith Land Surveying, Inc.
PO Box 150
Glenville, WV 26351
(304) 462-5634 (voice)
(304) 462-5656 (fax)
E-Mail DMcKee@slssurveys.com

Date: 6/18/14

Left/sent by: Daniel McKee

Well Number: OXF-164

Tax Map / Parcel: 9 / 9 & 15

Dodridge County, WV Southwest District

*If you do not have a water well or other non-public water source, please make note of it and include your name and address when you return this sheet.

If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined.

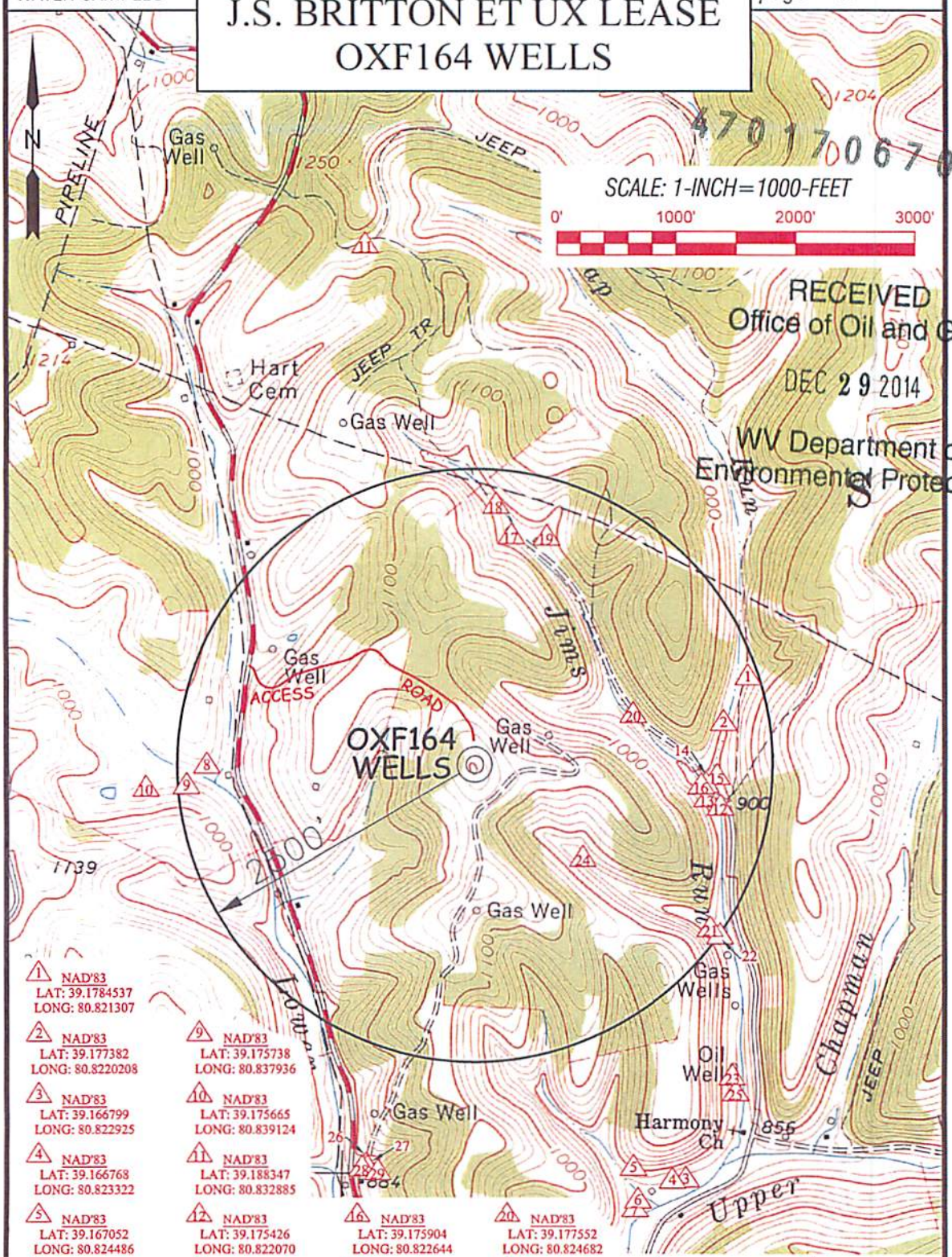
Signature: [illegible] Date: 6/24/14

WATER SAMPLES

J.S. BRITTON ET UX LEASE
OXF164 WELLS

page of

4701706709



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WV Department of Environmental Protection

1 NAD'83 LAT: 39.1784537 LONG: 80.821307	9 NAD'83 LAT: 39.175738 LONG: 80.837936				
2 NAD'83 LAT: 39.177382 LONG: 80.8220208	10 NAD'83 LAT: 39.175665 LONG: 80.839124				
3 NAD'83 LAT: 39.166799 LONG: 80.822925	11 NAD'83 LAT: 39.188347 LONG: 80.832885				
4 NAD'83 LAT: 39.166768 LONG: 80.823322	12 NAD'83 LAT: 39.175426 LONG: 80.822070	16 NAD'83 LAT: 39.175904 LONG: 80.822644	20 NAD'83 LAT: 39.177552 LONG: 80.824682		
5 NAD'83 LAT: 39.167052 LONG: 80.824486	13 NAD'83 LAT: 39.175616 LONG: 80.822462	17 NAD'83 LAT: 39.181652 LONG: 80.828373	21 NAD'83 LAT: 39.172611 LONG: 80.822321	24 NAD'83 LAT: 39.174215 LONG: 80.826010	27 NAD'83 LAT: 39.166975 LONG: 80.832414
6 NAD'83 LAT: 39.166292 LONG: 80.824337	14 NAD'83 LAT: 39.175945 LONG: 80.822512	18 NAD'83 LAT: 39.182365 LONG: 80.828845	22 NAD'83 LAT: 39.172451 LONG: 80.822022	25 NAD'83 LAT: 39.168842 LONG: 80.821474	28 NAD'83 LAT: 39.166967 LONG: 80.832582
7 NAD'83 LAT: 39.166083 LONG: 80.824412	15 NAD'83 LAT: 39.176138 LONG: 80.822183	19 NAD'83 LAT: 39.181641 LONG: 80.827326	23 NAD'83 LAT: 39.169193 LONG: 80.821606	26 NAD'83 LAT: 39.167037 LONG: 80.832453	29 NAD'83 LAT: 39.166888 LONG: 80.832106
8 NAD'83 LAT: 39.176220 LONG: 80.837346					

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC
SLS Surveyors Engineers Environmental Project Mgmt.

DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	7699	07/15/14	7699PSC0F164.dwg

TOPO SECTION OF:
OXFORD, WV 7.5' QUAD

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
SOUTHWEST	DODDRIDGE	06-15

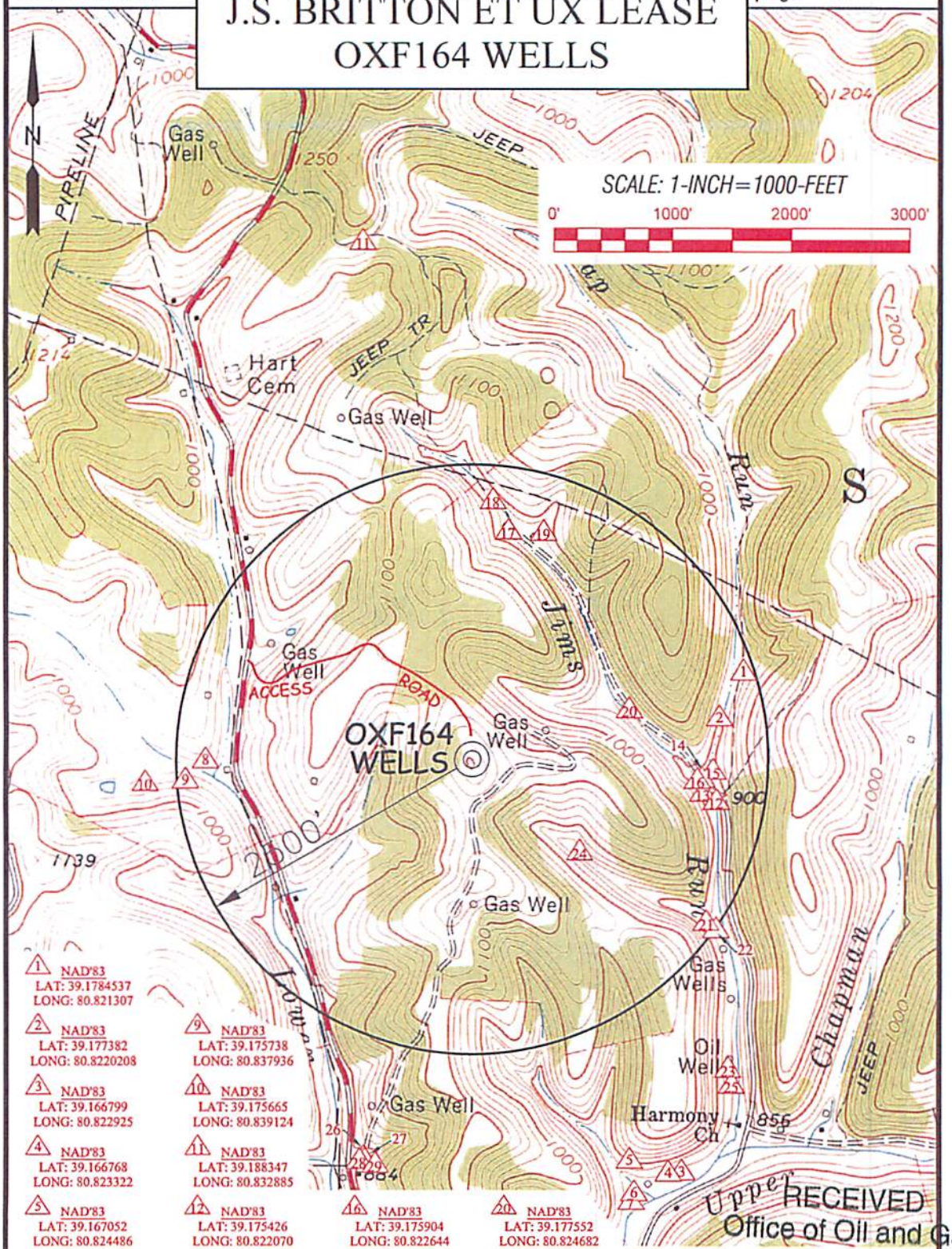
OPERATOR:
EQT PRODUCTION COMPANY
115 PROFESIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26330

4701706709

WATER SAMPLES

J.S. BRITTON ET UX LEASE
OXF164 WELLS

page of



1 NAD'83 LAT: 39.1784537 LONG: 80.821307	9 NAD'83 LAT: 39.175738 LONG: 80.837936		
2 NAD'83 LAT: 39.177382 LONG: 80.8220208	10 NAD'83 LAT: 39.175665 LONG: 80.839124		
3 NAD'83 LAT: 39.166799 LONG: 80.822925	11 NAD'83 LAT: 39.188347 LONG: 80.832885		
4 NAD'83 LAT: 39.166768 LONG: 80.823322			
5 NAD'83 LAT: 39.167052 LONG: 80.824486	12 NAD'83 LAT: 39.175426 LONG: 80.822070	16 NAD'83 LAT: 39.175904 LONG: 80.822644	20 NAD'83 LAT: 39.177552 LONG: 80.824682
6 NAD'83 LAT: 39.166292 LONG: 80.824337	13 NAD'83 LAT: 39.175616 LONG: 80.822462	17 NAD'83 LAT: 39.181652 LONG: 80.828373	21 NAD'83 LAT: 39.172611 LONG: 80.822321
7 NAD'83 LAT: 39.166083 LONG: 80.824412	14 NAD'83 LAT: 39.175945 LONG: 80.822512	18 NAD'83 LAT: 39.182365 LONG: 80.828845	22 NAD'83 LAT: 39.172451 LONG: 80.822022
8 NAD'83 LAT: 39.176220 LONG: 80.837346	15 NAD'83 LAT: 39.176138 LONG: 80.822183	19 NAD'83 LAT: 39.181641 LONG: 80.827326	23 NAD'83 LAT: 39.169193 LONG: 80.821606

24 NAD'83 LAT: 39.174215 LONG: 80.826010	27 NAD'83 LAT: [illegible] LONG: [illegible]		
25 NAD'83 LAT: 39.168[illegible] LONG: 80.821474	28 NAD'83 LAT: [illegible] LONG: [illegible]		
26 NAD'83 LAT: 39.167037 LONG: 80.832453	29 NAD'83 LAT: 39.166888 LONG: 80.832106		

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Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
SLS Surveyors Engineers Environmental Project Mgmt.

DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	7699	07/15/14	7699WSOXF164.dwg

TOPO SECTION OF:
OXFORD, WV 7.5' QUAD

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
SOUTHWEST	DODDRIDGE	06-15

OPERATOR:
EQT PRODUCTION COMPANY
115 PROFESIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26330

WW-6A3
(1/12)

Operator Well No. OXF164

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

4701706709

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry.

Date of Notice: 9/12/2013 **Date of Planned Entry:** 9/19/2013

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

[ ] PERSONAL SERVICE [x] CERTIFIED MAIL [ ] METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

[x] **SURFACE OWNER(S)**

Name: Charles David Locke
Address: 669 Westview Ave. Morgantown, WV 26505

Name: Donald E. & Barbara H. Osburn
Address: 29773 Chilcuhr Easton, MD 21601

Name:
Address:

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WV Department of Environmental Protection

[x] **COAL OWNER OR LESSEE**

Name: Coal Declaration pursuant to §22-6A-10 and §22-6-36 Not of Record
Address:

[x] **MINERAL OWNER(S) (EQT Lease #0107441)**

Name: Charles David Locke
Address: 669 Westview Ave. Morgantown, WV 26505

Name: Donald E. & Barbara H. Osburn
Address: 29773 Chilcuhr Easton, MD 21601

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	West Virginia	Approx. Latitude & Longitude:	39.17725 / -80.82991
County:	Doddridge	Public Road Access:	Taylor Drain Road
District:	Southwest Map 9 Parcel 15	Watershed:	Upper Run
Quadrangle:	Oxford	Generally Used Farm Name:	Osburn

Copies of the state Erosion and Sediment Control Manual and the statues and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	EQT Production Company	Address:	115 Professional Place, Bridgeport, WV 26330
Telephone:	304-848-0086	EQT Representative:	Rex Bumgardner
Facsimile:	304-848-0040		
Email:	EQTLandEntryNotice@eqt.com	Signature:	

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as part of 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.

4701706709

WW-6A5
(1/12)

Operator Well No. 514179

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 12/23/2014 **Date Permit Application Filed:** December 23, 2014

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: Charles David Locke
Address: 669 Westview Ave
Morgantown, WV 26505

Name: Donald E & Barbara H Osburn
Address: 29773 Chilcutt Road
Easton MD 21601

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:	WV	UTM NAD 83	Easting:	514,749.40
County:	Doddridge		Northing:	4,336,333.90
District:	Southwest	Public Road Access:		CR 21
Quadrangle:	Oxford 7.5	Generally used farm name:		Charles D Locke & Donald & Barbara Osburn
Watershed:	Lower Run of Middle Fork & Jims Run of Upper Run			

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator:	EQT Production Company	Address:	115 Professional Place, P.O. Box 280
Telephone:	304-848-0082		Bridgeport, WV 26330
Email:	vroark@eqt.com	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.

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DEC 29 2014
WV Department of
Environmental Protection

4701706709

WW-6A5
(1/12)

Operator Well No. 514179

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 12/23/2014 **Date Permit Application Filed:** December 23, 2014

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: Barbara Osborne
Address: 1371 Harmony Road
West Union, WV 26456

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:

State:	WV	UTM NAD 83	Easting:	514,749.400000
County:	Doddridge		Northing:	4,336,333.900000
District:	Southwest	Public Road Access:		CR 21
Quadrangle:	Oxford 7.5	Generally used farm name:		Charles D Locke & Donald & Barbara Osburn
Watershed:	Lower Run of Middle Fork & Jims Run of Upper Run			

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator:	EQT Production Company	Address:	115 Professional Place, P.O. Box 280
Telephone:	304-848-0082	Bridgeport, WV 26330	
Email:	vroark@eqt.com	Facsimile:	304-848-0040

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DEC 29 2014
WV Department of
Environmental Protection

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.

017-06709

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

March 12, 2015

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

Subject: DOH Permit for the OXF164 Well Site, Doddridge County

514179 OXF164H1	514180 OXF164H2	514181 OXF164H3
514182 OXF164H4	514183 OXF164H5	514184 OXF164H6
514185 OXF164H7	514186 OXF164H8	514187 OXF164H9
514188 OXF164H10	514447 OXF164H11	

Dear Mr. Martin,

This well site will be accessed from Permit # 04-2015-0154 which has been applied for by EQT Production Company for access to the State Road for a well pad located off of County Rt. 19 SLS in Doddridge County.

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

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

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

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Environmental Protection

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Anticipated Frac Additives

Chemical Names and CAS numbers

Material	Ingredient	CAS Number
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
Friction Reducer	Tributyl tetradecyl phosphonium chloride	64742-47-8
Biocide	Ammonium chloride	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7

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