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**west virginia** department of environmental protection

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

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

July 24, 2015

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-8510219, 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: 515883  
Farm Name: WILSON, JAMES H. & WILMA J.  
**API Well Number: 47-8510219**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 07/24/2015

**Promoting a healthy environment.**

**07/24/2015**

# PERMIT CONDITIONS **4708510219**

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

## CONDITIONS

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1. Operator shall take additional measures with this permitted activity to avoid communication with offset wells. Such additional measures are described in the attached addendum. This addendum is part of the terms of the well work permit, and includes a description of depth and completed formations of offset wells. Also included is a description of monitoring activities that will take place during fracturing operations of the permitted well work.
1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE 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 one hundred (100) 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.

API Number: \_\_\_\_\_

# PERMIT CONDITIONS 4708510219

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

4708510219  
5/28

1) Well Operator: EQT Production Company  
Operator ID 306686 County 085 District 4 Quadrangle 562

2) Operator's Well Number: 515883 Well Pad Name PUL96

3) Farm Name/Surface Owner : James H & Wilma J Wilson Public Road Access: CR 7/4

4) Elevation, current ground: 1,194.0 Elevation, proposed post-construction: 1,182.0

5) Well Type: (a) Gas  Oil  Underground Storage   
Other \_\_\_\_\_

(b) If Gas: Shallow  Deep   
Horizontal

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 6416 with the anticipated thickness to be 50 feet and anticipated target pressure of 2190 PSI

8) Proposed Total Vertical Depth: 6416

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,274

11) Proposed Horizontal Leg Length 7,618

12) Approximate Fresh Water Strata Depths: 341, 367, 398, 555

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

14) Approximate Saltwater Depths: n/a

15) Approximate Coal Seam Depths: n/a

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

17) Does proposed well location contain coal seams directly overlying or adjacent to an active mine?  
Yes \_\_\_\_\_ No x

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

Received  
Office of Oil & Gas  
Received 2015  
Office of Oil & Gas  
JUN 04 2015

*DW*  
6-1-15

07/24/2015

**CASING AND TUBING PROGRAM**

**4708510219**

18)

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu.Ft.)
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	655	655	581 C.T.S.
Coal	-	-	-	-	-	-	-
Intermediate	9 5/8	New	A-500	40	2,566	2,566	1,011 C.T.S.
Production	5 1/2	New	P-110	20	15,025	15,025	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)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	-	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	2,184	* See Note 2	1.21
Coal							
Intermediate	9 5/8	12 3/8	0.395	3,950	3,160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10,112	-	1.27/1.86
Tubing							
Liners							

**Packers**

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

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

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

*gus*



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Office of Oil and Gas  
PUL96  
JUL 21 2015  
WV Department of  
Environmental Protection

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 2983'  
then kick off the horizontal leg into the marcellus using a slick water frac.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is 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):

± 28.99

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

± 6.48

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 % Calcium Carbonate. Acid solubility.

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

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

one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up

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

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

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

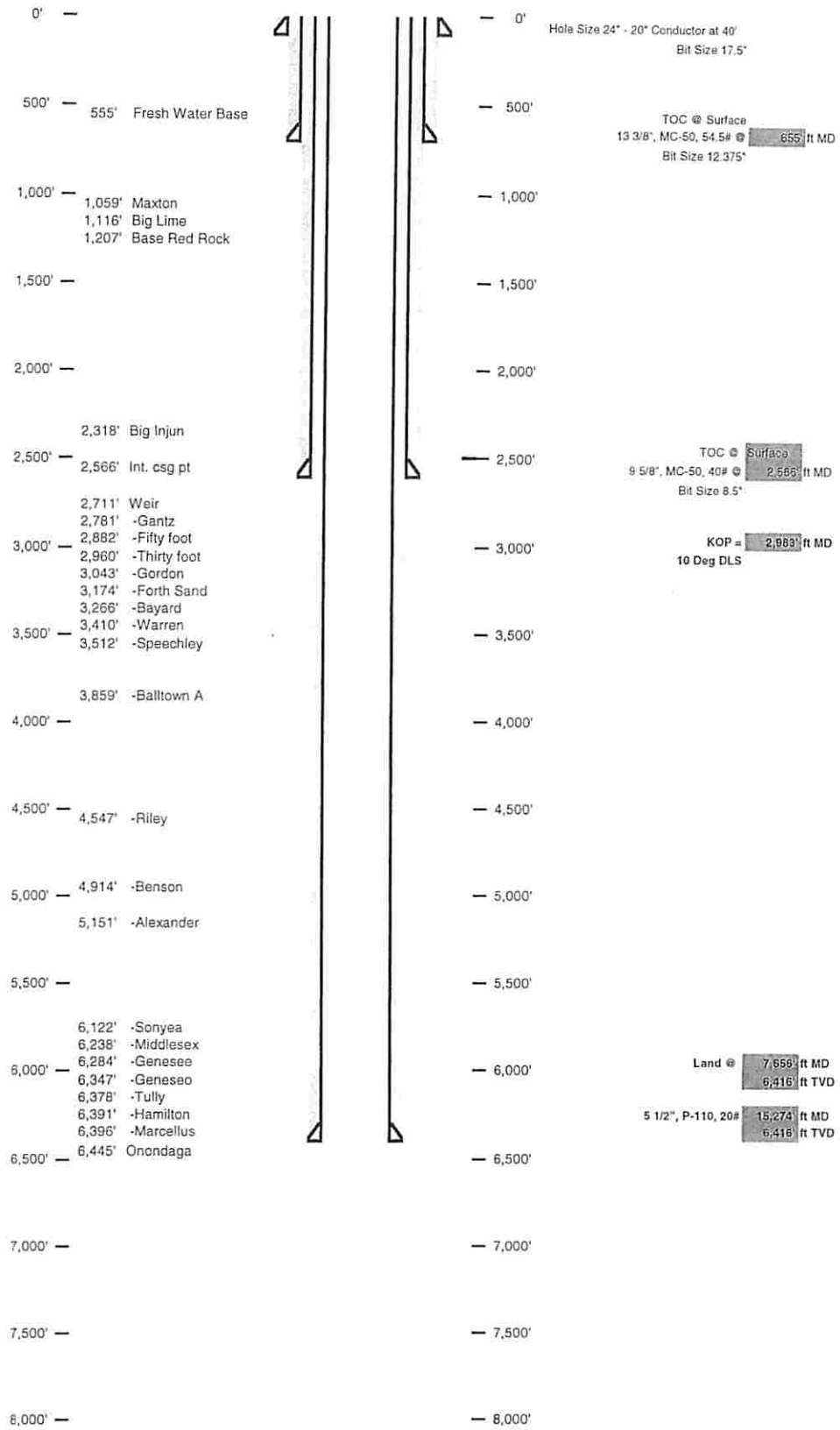
\*Note: Attach additional sheets as needed.

*Handwritten signature*  
7-16-15  
Page 3 of 3

Well Schematic  
EQT Production

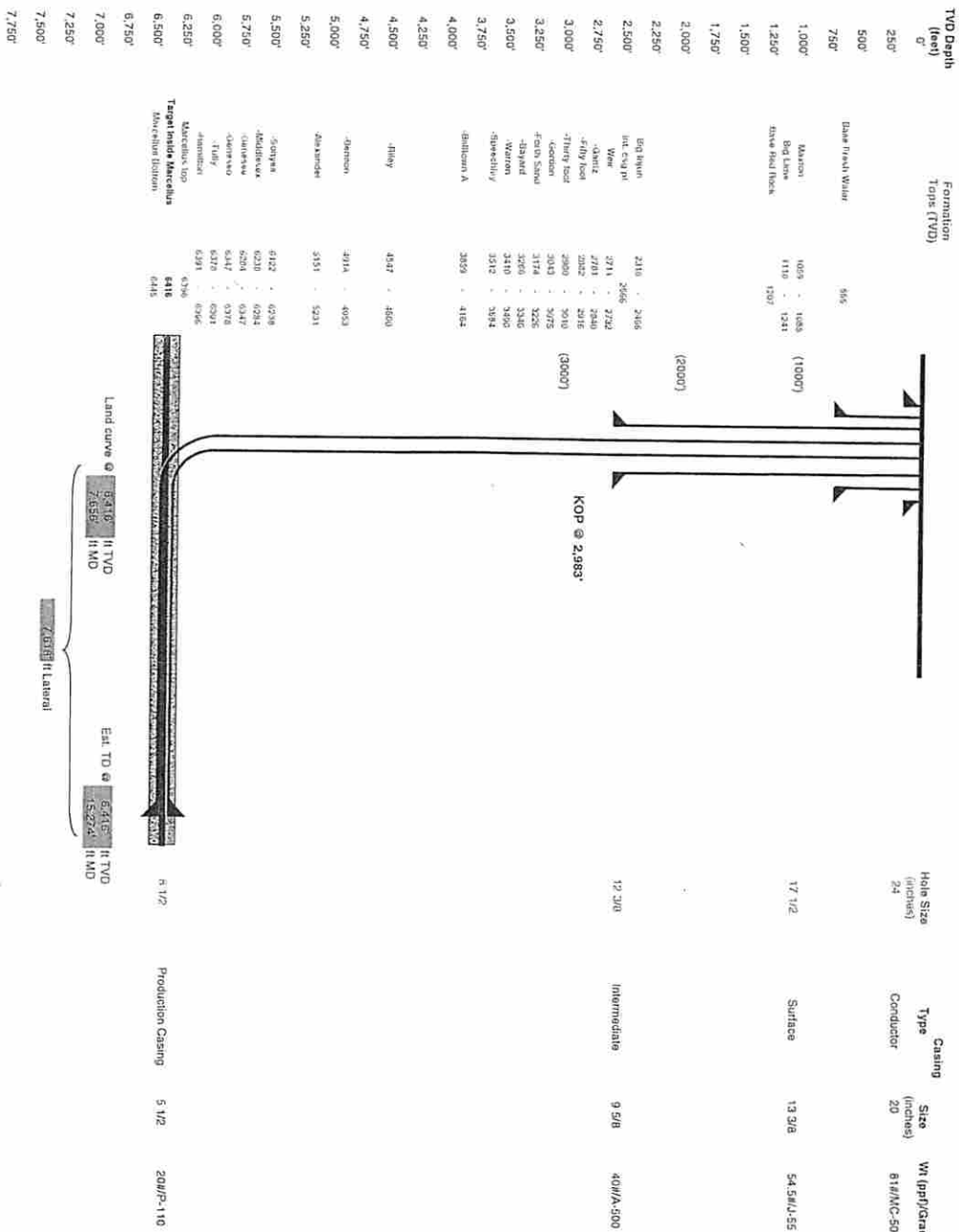
Well Name: 515883 (PUL9541)  
County: Ritchie  
State: West Virginia

Elevation KB: 1195  
Target: Marcellus  
Prospect: Marcellus  
Azimuth: 164.75  
Vertical Section: 6757



Well: 513883(PUL96H1)  
 EOT Production  
 Pullman  
 Ritchie  
 West Virginia

As shown  
 Vertical section  
 693



Proposed Well Work:  
 Drill and complete a new horizontal well in the Marcellus formation.  
 The vertical drill to go down to sub-surface depth of 2995'.  
 Then kick off the horizontal leg into the Marcellus using a slick water frac.





February 5, 2015

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

Re: Casing Plan on Wells (PUL96)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 655' KB, 100' below the deepest fresh water show. We will set the 9-5/8" intermediate string at 2566' KB, below the porosity zone in the Big Injun formation.

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

Sincerely,

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

Vicki Roark  
Permitting Supervisor

Enc.



west virginia department of environmental protection

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

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

March 18, 2014

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

470 931 1111

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  
Environmental Resources Specialist / Permitting

Promoting a healthy environment.

Received  
Office of Oil & Gas  
MAY 28 2015

07/24/2015



west virginia department of environmental protection

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

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

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

**IN THE MATTER OF A VARIANCE FROM )  
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 )**

**ORDER NO. 2014 - 17**

4708510219

**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 & Gas  
MAY 28 2015

07/24/2015

**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

4708510219

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Office of Oil & Gas  
MAY 28 2015

07/24/2015

WW-9  
(2/15)

Page 1 of 2  
API No. 47 - 085 - 10219  
Operator's Well No. 515883

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) Goose Run of Rockcamp Run Quadrangle Pullman

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      )

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 (vertical and horizontal)? Air, freshwater, oil based, etc.

Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.

- If oil based, what type? Synthetic, petroleum, etc Synthetic mud

Additives to be used in drilling medium? Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud - Barite, viscosifier, alkalinity control, lime, filtration control, defloculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.

Oil based mud -synthetic base oil, barite, emulsifier, salt, lime, viscosifier, alkalinity control, filtration control, defloculates, biodegradable oil lubricant, defoaming, carbonates.

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

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

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

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

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

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

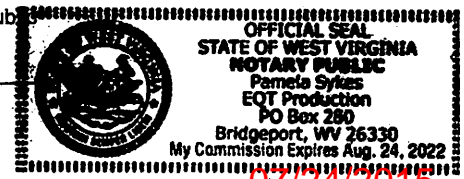
Subscribed and sworn before me this 21 day of July, 20 15

*Pamela Sykes* Notary Public  
My commission expires 8-24-22

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Office of Oil and Gas

JUL 23 2015

WV Department of  
Environmental Protection



07/24/2015



Operator's Well No. 515883

Proposed Revegetation Treatment: Acres Disturbed ± 28.99 Prevegetation pH 6.6

Lime 3 Tons/acre or to correct to pH 6.5

Fertilize type Granular 10-20-20

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: *Daniel W. Brown*

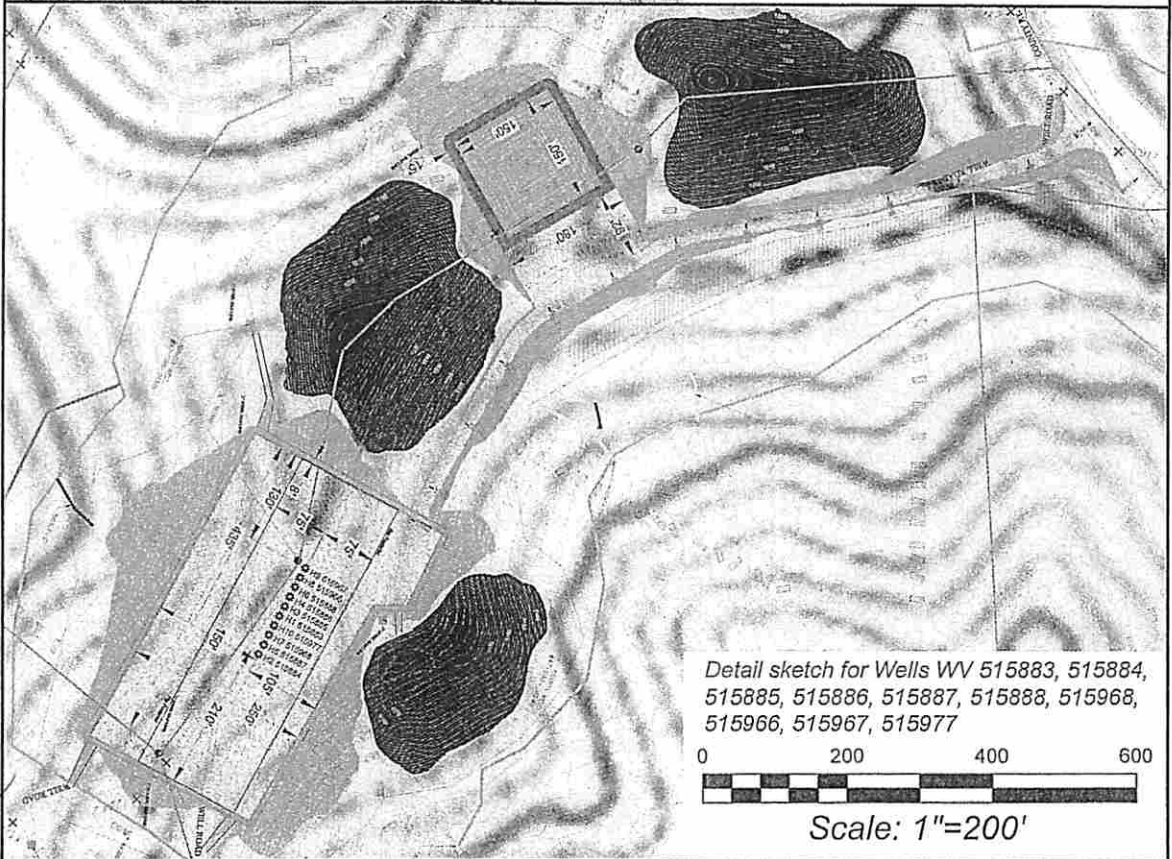
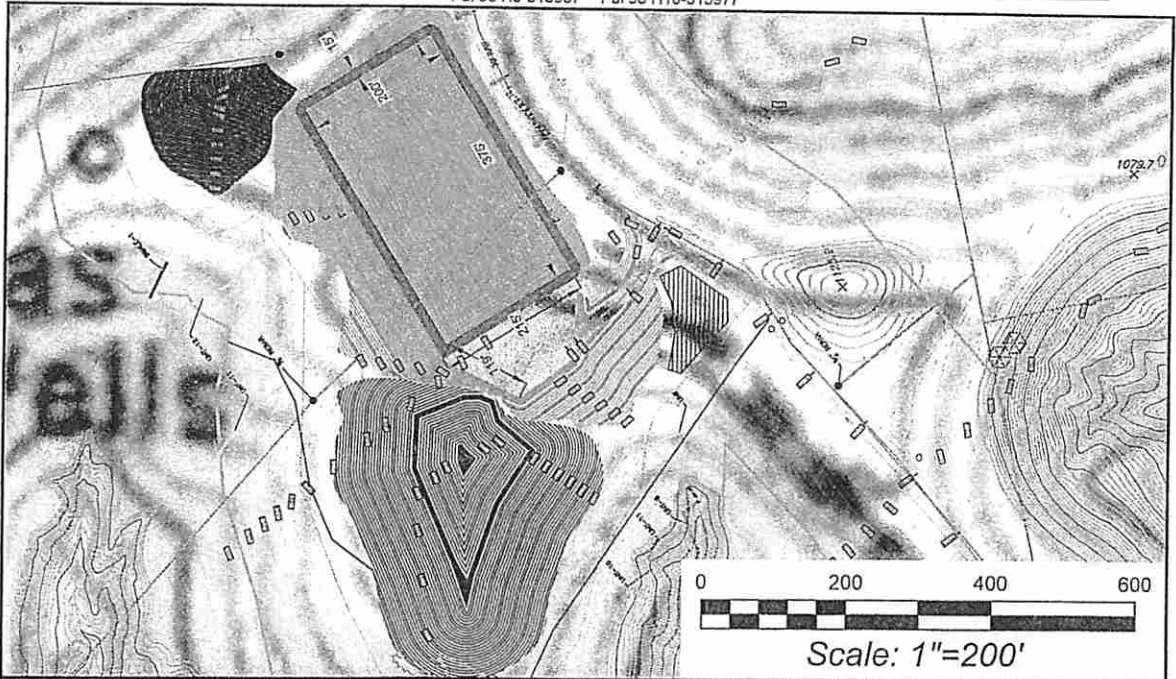
Comments: *proceed & mulch all cut area no less than 2.400 per acre maintain all @ 5 during operation*

Title: *oil & gas inspector* Date: *6-1-15*

Field Reviewed? (  ) Yes (  ) No

WW-9

Pul 96 H1-515883 Pul 96 H2-515884 Pul 96 H3-515885 Pul 96 H4-515886  
 Pul 96 H5-515887 Pul 96 H6-515888 Pul 96 H7-515968 Pul 96 H8-515966  
 Pul 96 H9-515967 Pul 96 H10-515977



Detail sketch for Wells WV 515883, 515884, 515885, 515886, 515887, 515888, 515968, 515966, 515967, 515977

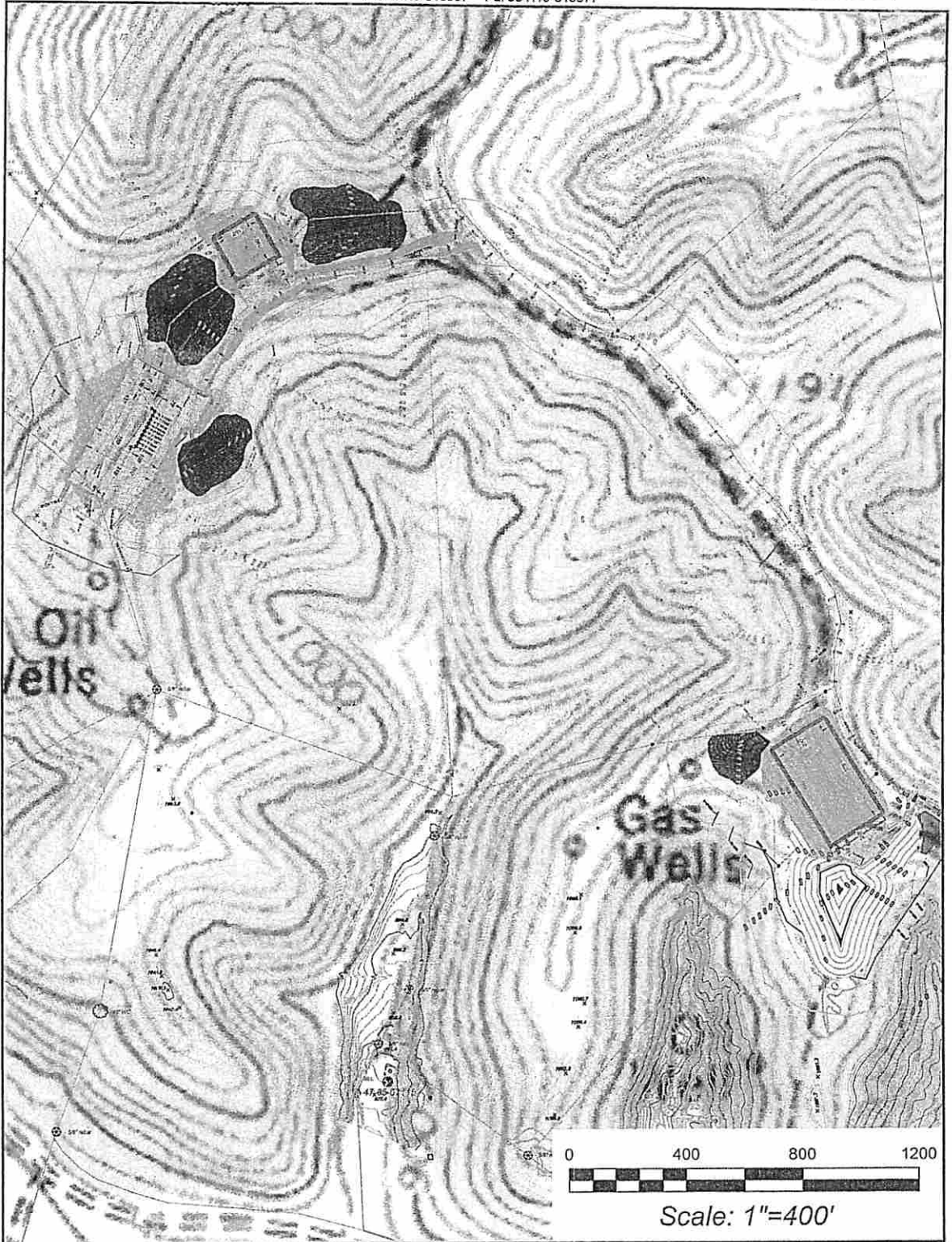
Pullman 7.5' USGS QUADRANGLE		Proposed Disturbance Area		Note: SEE SITE PLAN OF PULLMAN 96 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC.
Projected culvert inventory. (for bid purposes only)		Well Site Location	See Site Plan	
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan	
24" minimum diameter culverts	See Site Plan	Approximate Total Disturbance	See Site Plan	
DRAWN BY: Dale Tomlin PS	DATE: December 30, 2014	FILE NO: 243-14	DRAWING FILE NO: 243-14 Rec Plan	
		SURVEYING AND MAPPING SERVICES PERFORMED BY: <b>ALLEGHENY SURVEYS, INC.</b> 1-800-482-8606 Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608 237 Birch River Road P.O. Box 438 Birch River, WV 26610		<b>07/24/2015</b>



WW-9

Pul 96 H1-515883 Pul 96 H2-515884 Pul 96 H3-515885 Pul 96 H4-515886  
 Pul 96 H5-515887 Pul 96 H6-515888 Pul 96 H7-515968 Pul 96 H8-515966  
 Pul 96 H9-515967 Pul 96 H10-515977

PAGE 1 OF 2



Pullman 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)		Well Site Location	See Site Plan
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan
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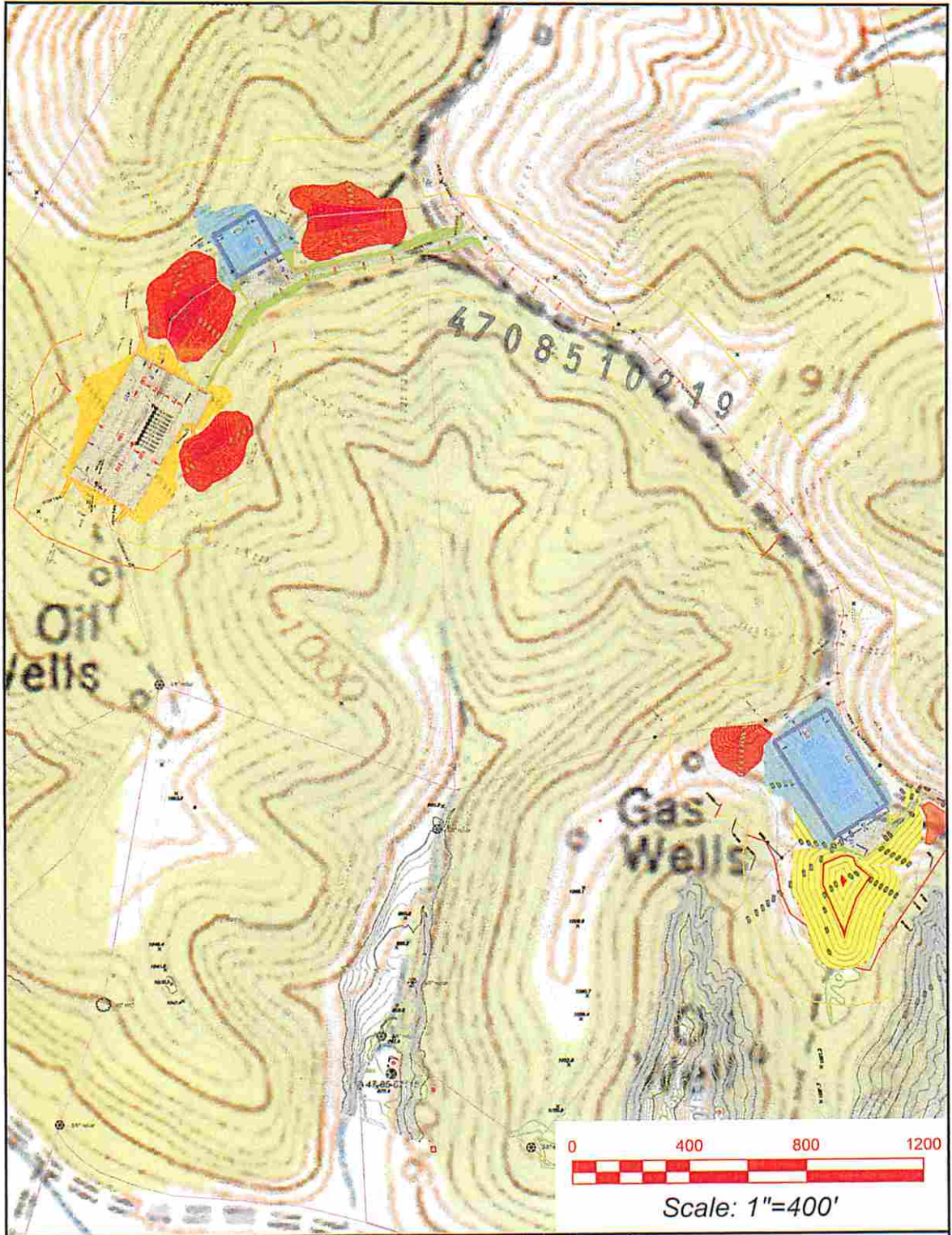
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SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608  
 237 Birch River Road P.O. Box 438 Birch River, WV 26610

07/24/2015





Pullman 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)	Well Site Location	See Site Plan	
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan
24" minimum diameter culverts	See Site Plan	Approximate Total Disturbance	See Site Plan
DRAWN BY: Dale Tomlin PS	DATE: December 30, 2014	FILE NO: 243-14	DRAWING FILE NO: 243-14 Rec Plan

Note: SEE SITE PLAN OF PULLMAN 96 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC.

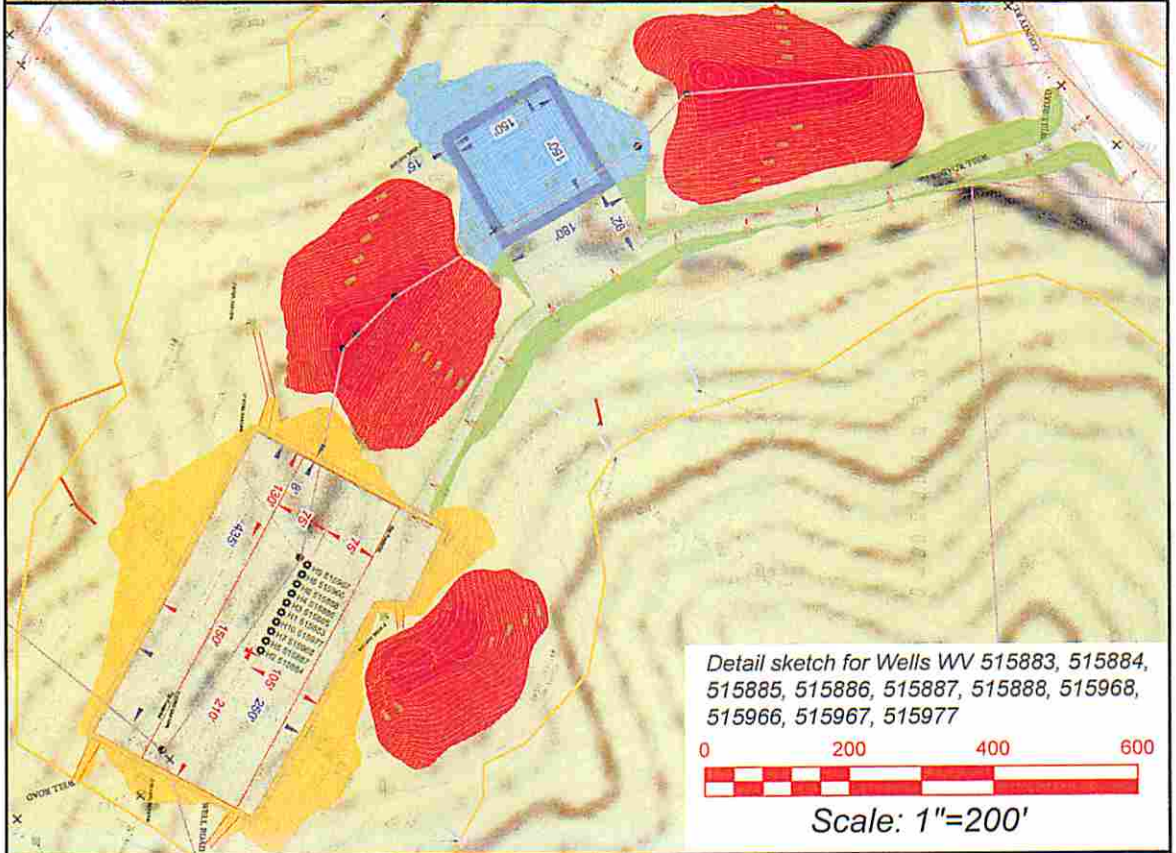
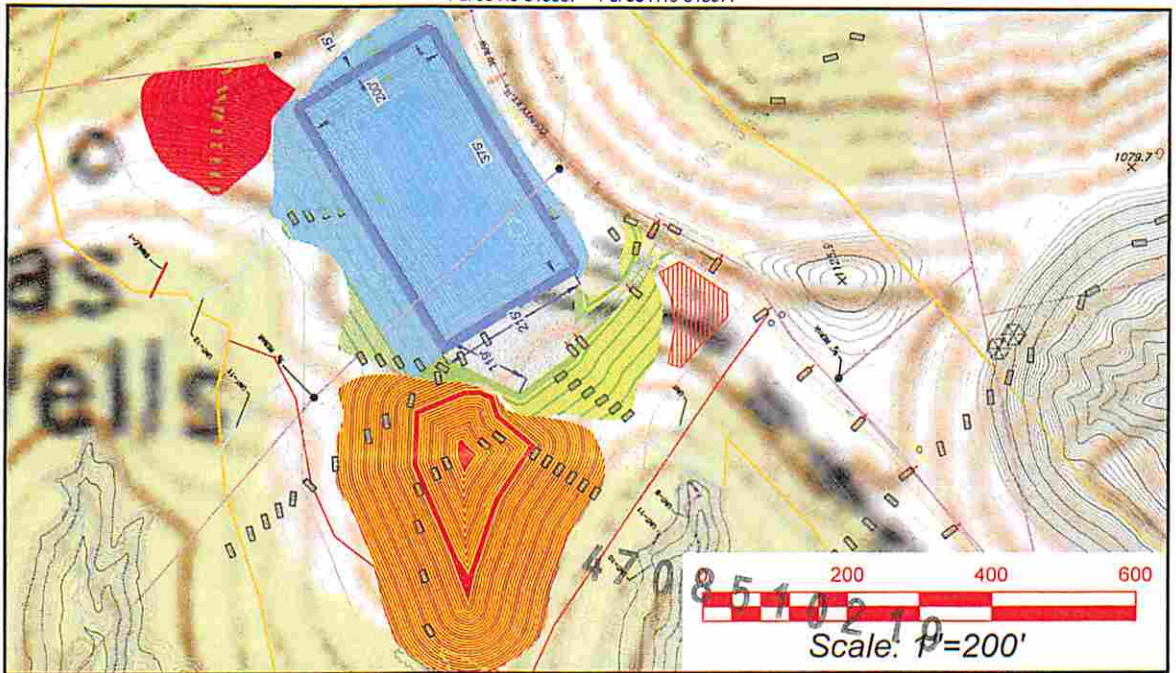
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**07/24/2015**



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
1-800-482-8606  
Birch River Office  
Phone: (304) 649-8606  
Fax: (304) 649-8608  
237 Birch River Road  
P.O. Box 438  
Birch River, WV 26610





Detail sketch for Wells WV 515883, 515884, 515885, 515886, 515887, 515888, 515968, 515966, 515967, 515977

Pullman 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory (for bid purposes only)		Well Site Location	See Site Plan
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan
24" minimum diameter culverts	See Site Plan	Approximate Total Disturbance	See Site Plan
DRAWN BY: Dale Tomlin PS	DATE: December 30, 2014	FILE NO: 243-14	DRAWING FILE NO: 243-14 Rec Plan

Note: SEE SITE PLAN OF PULLMAN 96 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC.



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608  
 237 Birch River Road P.O. Box 438 Birch River, WV 26610

07/24/2015



**EQT Production Water plan**  
**Offsite disposals for Marcellus wells**

**CWS TRUCKING INC.**

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

**BROAD STREET ENERGY LLC**

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

**LAD LIQUID ASSETS DISPOSAL INC.**

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

**TRIAD ENERGY**

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

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

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

**KING EXCAVATING CO.**

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

**Waste Management - Meadowfill Landfill**

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

**Waste Management - Northwestern Landfill**

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

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4708510219

Where energy meets innovation™

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# Site Specific Safety Plan

EQT PUL96 Pad

Pullman  
Ritchie County, WV

For Wells:

515883 515885

Date Prepared:

May 26, 2015

[Signature]  
EQT Production

[Signature]  
WV Oil and Gas Inspector

Title

Title

Date

Date

3/26/15

6-1-15

07/24/2015

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**EQT Production**  
**Hydraulic Fracturing Monitoring Plan**  
**Pad ID: PUL96**  
**Ritchie County, WV**

**3/6/2015**

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## Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Ritchie County, WV prior to hydraulic fracturing at the following EQT wells on the PUL96 pad: 515883, 515884, 515885, 515886, 515887, 515888, 515965, 515966, 515967, 515977. 4708510219

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,200' TVD).

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

### 1. Communications with Conventional Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known conventional wells and well operators within 1,500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

Upon approval of this plan, EQT will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in **Attachment B**.

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to EQT and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

### 2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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Well ID	Prior Operator on Record	Operator-OEP*	Status	Latitude	Longitude	Vertical TD	Closest Distance from PUS6 Lateral Map View	PUS6 Horizontal TD minus Offset	Hypotenuse Distance	Producing Formation	Gas Show/Pay Zone Depth	Notes
47080919B	STALWARTER ENERGY	STALWARTER ENERGY	GAS	39.194145	-80.992885	5234	62	1101	6683.911103	Uden, Wrenn, Greenleaf Gas, Gerson, Alexander	1374-5234	Completed 2005
47080921B	STALWARTER ENERGY	STALWARTER ENERGY	GAS	39.193105	-80.99568	5324	125	1104	6664.061619	Mauch Chunk Gps, Uden, Greenleaf Gas, Bullock, Riley, Bend	1928-5324	Completed 2005
47080924D	STALWARTER ENERGY	STALWARTER ENERGY	GAS	39.204885	-80.99522	5359	155	1093	6690.883721	Warren, Scherr fm, Nike Sand	6438-5259	Completed 2005

\* Most recent operator on DEP website

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4708510000

07/24/2015



625 Liberty Ave, Suite 1700  
Pittsburgh PA 15222  
www.eqt.com

TEL: (412) 395-3305  
FAX: (412) 395-2156

John Centofanti  
Corporate Director,  
Environmental Affairs

March 9, 2015

[Conventional Well Operator]  
[address]  
[state]

4708510219

**RE: Ritchie County Hydraulic Fracturing Notice**

Dear Sir/Madam,

EQT has developed a Marcellus pad (Pullman 96 pad) located in Ritchie County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,200' TVD).

EQT anticipates conducting hydraulic fracturing at the Pullman 96 pad during the second quarter of 2015. We have identified conventional natural gas wells operated by your company within 1,500' (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during, and after fracturing operations:

1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified.

Please feel free to contact me at 412-395-3305 with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0440.

Sincerely,  
**EQT Production**

John Centofanti  
Corporate Director, Environmental Affairs

cc: James Martin, WV Office of Oil and Gas

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Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

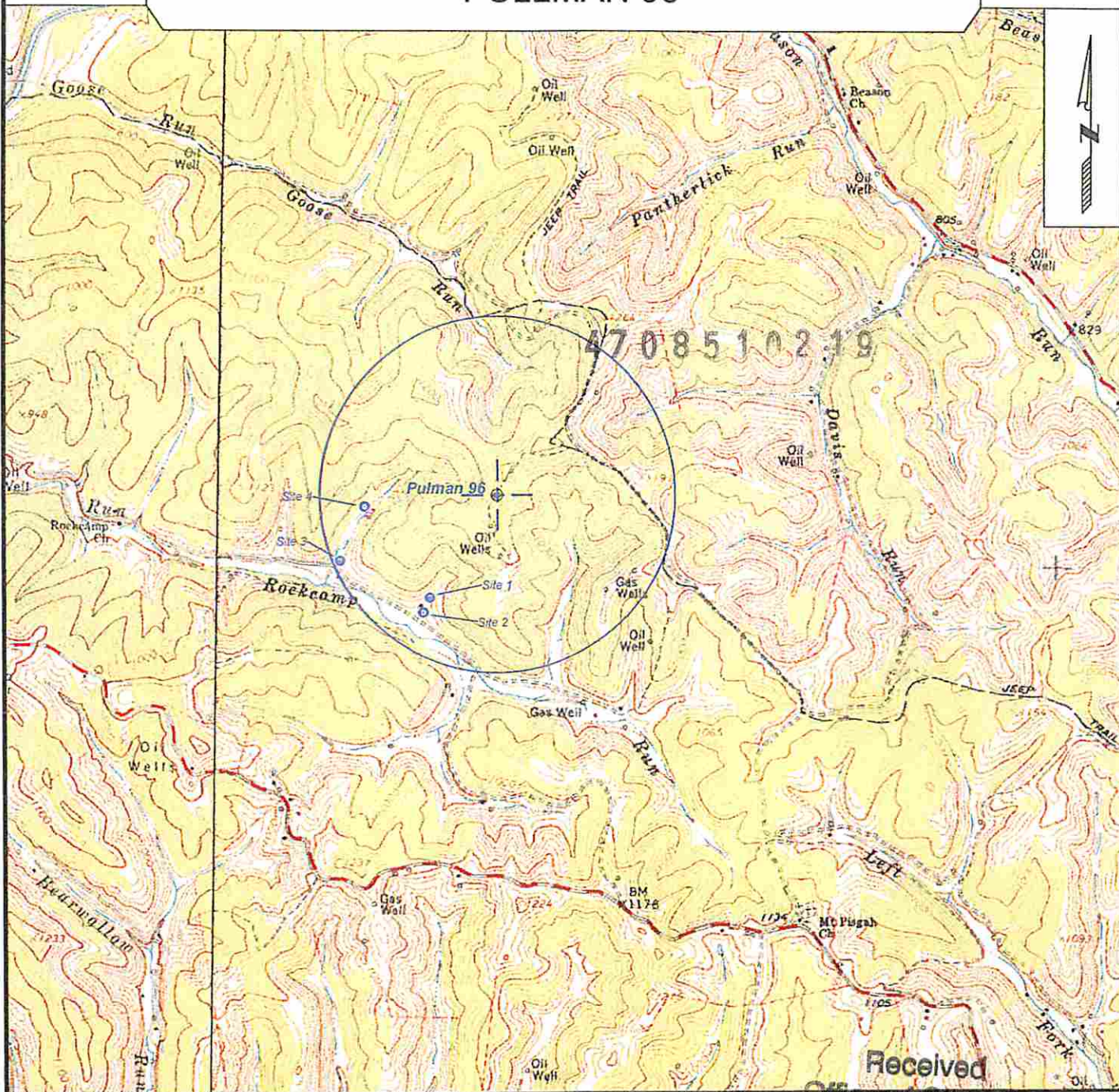
County: Ritchie

Date: December 12, 2014

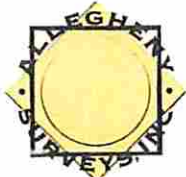
District: Union

Project No: 243-38-U-14

# PULLMAN 96



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SURVEYING AND MAPPING SERVICES PERFORMED BY:

## ALLEGHENY SURVEYS, INC.

1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:

## EQT Production Company

MAY 28 2015  
 P.O. Box 280  
 Bridgeport, WV 26330

07/24/2015





# Water Source Identification

EQT Well Pad Name: Pullman 96

Submittal Date: December 19, 2014

EQT Well Number: \_\_\_\_\_

Survey / Engineering Company: Allegheny Surveys, Inc.

Site Number: 1A Distance from Gas Well (feet): 1728

4708510219

Surface Owner / Occupant: Wayne M. Reed & Eva L. Riffle

Address: 1314 37<sup>th</sup> St., Parkersburg, WV 26104 Phone #: \_\_\_\_\_

Field Located Date: December 18, 2014 Owner home during survey (yes/no): No

Coordinates: 39.207098, -80.989121 (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 12/15/14 2<sup>nd</sup>: 12/18/14 3<sup>rd</sup>: \_\_\_\_\_ Date Door Hanger Left: 12/15/14

Comments: This house is being used as a hunting camp. The first site is the water well

Site Number: 1B Distance from Gas Well (feet): 1953

Surface Owner / Occupant: Wayne M. Reed & Eva L. Riffle

Address: 1314 37<sup>th</sup> St., Parkersburg, WV 26104 Phone #: \_\_\_\_\_

Field Located Date: December 18, 2014 Owner home during survey (yes/no): No

Coordinates: 39.206520, -80.989428 (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 12/15/14 2<sup>nd</sup>: 12/18/14 3<sup>rd</sup>: \_\_\_\_\_ Date Door Hanger Left: 12/15/14

Comments: This second site is a pond

Site Number: 2A Distance from Gas Well (feet): 2398

Surface Owner / Occupant: Delores Jean Moore

Address: 1590 Rock Camp Rd., Harrisville, WV 26362 Phone #: 304-643-2511

Field Located Date: December 15, 2014 Owner home during survey (Yes/No): Yes

Coordinates: 39.208474, -80.993526 (decimal degrees – NAD 83)

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

Comments: This first site is the water well next to the house.

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Site Number: 2B Distance from Gas Well (feet): 1882

Surface Owner / Occupant: Delores Jean Moore

Address: 1590 Rock Camp Rd., Harrisville, WV 26362 Phone #: 304-643-2511

Field Located Date: December 15, 2014 Owner home during survey (Yes/No): Yes

Coordinates: 39.210584, -80.992442 (decimal degrees – NAD 83)

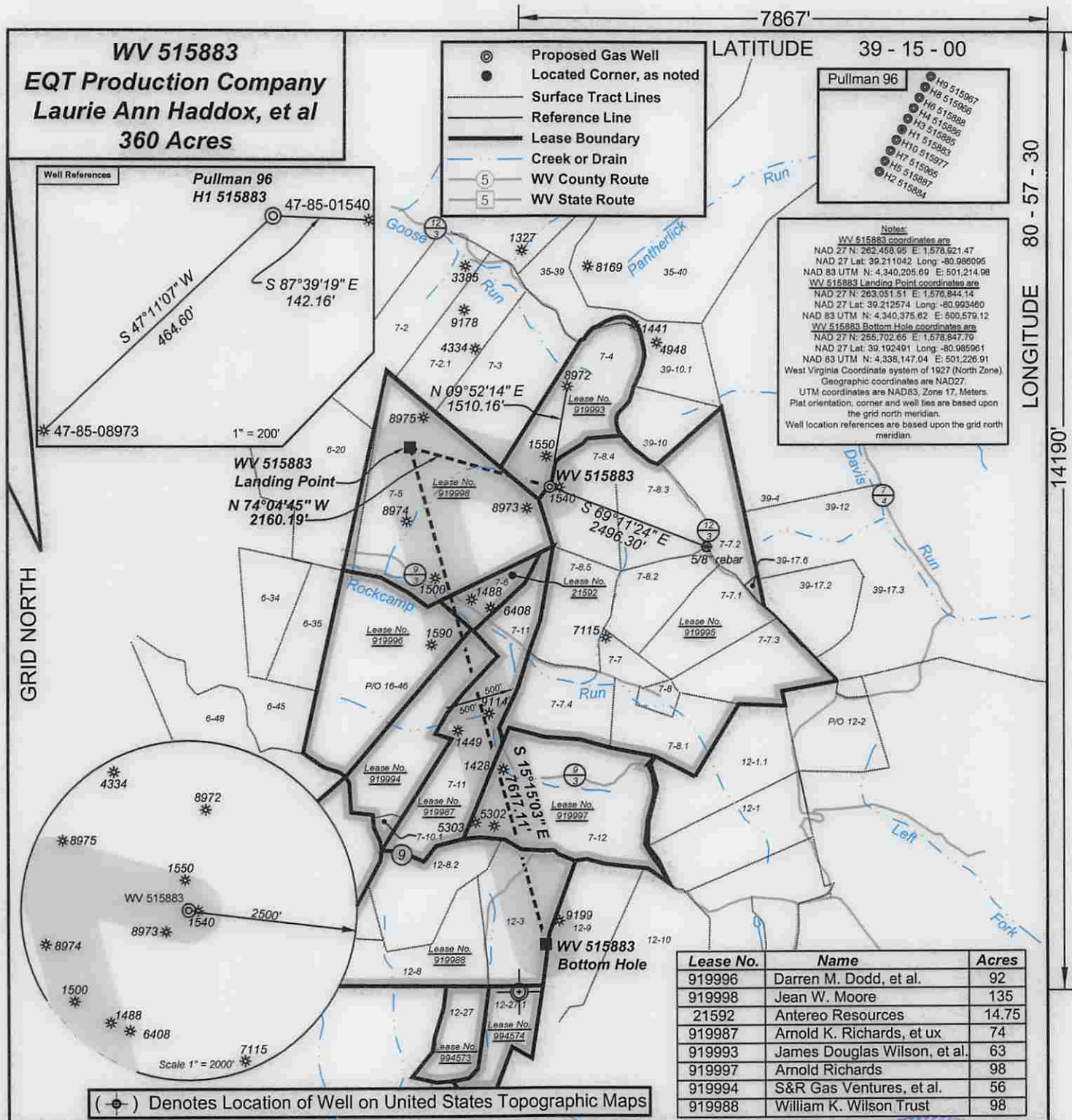
Contact Attempts (Date): 1<sup>st</sup>: 12/15/14 2<sup>nd</sup>: \_\_\_\_\_ 3<sup>rd</sup>: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_

Comments: The second site is a pond.

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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

*Dwayne A. Hall*  
 P.S. 2089SU



FILE NO: 243-14  
 DRAWING NO: 243-14 Pullman 96 H1.dwg  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: May 20 20 15  
 OPERATOR'S WELL NO. 515883  
 API WELL NO  
 47 - 85 - 10219  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: Original: 1194' Proposed: 1182' WATERSHED Goose Run of Rockcamp Run QUADRANGLE: Pullman  
 DISTRICT: Union COUNTY: Ritchie  
 SURFACE OWNER: James H. & Wilma J. Wilson ACREAGE: 40.089  
 ROYALTY OWNER: Laurie Ann Haddox, et al LEASE NO: 919995 ACREAGE: 360 07/24/2015  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD 6,396

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray  
 ADDRESS: PO Box 280 / 115 Professional Place ADDRESS: PO Box 280 / 115 Professional Place  
Bridgeport, WV 26330 Bridgeport, WV 26330

**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:

4708510219

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>919995</u>			1/8 Min pd.	
	James A. Wilson, et ux	R. W. Richards		LB79/542
	R. W. Richards	J. E. Richards and C. W. Richards		LB80/78
	J. E. Richards and C. W. Richards	Bolyard Oil & Gas, LTD		LB169/136
	Bolyard Oil & Gas, LTD	Sheffield Exploration Co.		LB189/521
	Sheffield Exploration Co.	M. S. Oil Co. (69.513% of working interest) and Applied Mechanics Corp.		LB208/268
	M. S. Oil Co. (69.513%)	Applied Mechanics, et al		LB222/836
	Applied Mechanics, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102
<u>919993</u>			1/8 Min pd.	
	Effie E. Wilson and James Wilson	J.E. Richards		LB79/346
	J.E. Richards	J. E. Richards and C.W. Richards		LB79/407
	J.E. Richards and C.W. Richards	P.O. Burgy, B.S. Marshall, L.B. Burgy & Rollo Riggs		LB81/279
	P.O. Burgy, B.S. Marshall, L.B. Burgy & Rollo Riggs	J. E. Richards and C.W. Richards		LB123/303
	J. E. Richards and C.W. Richards	Applied Mechanics, et al		LB206/8
	Applied Mechanics, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102
<u>919998</u>			1/8 Min pd.	
	Robert D. Elder, et ux	N.M. Welch		LB81/521
	N.M. Welch	Ohio-West Virginia Oil & Gas Co.		LB81/546
	Ohio-West Virginia Oil & Gas Co.	N.M. Welch		LB82/425
	N.M. Welch	J. E. Richards and C.W. Richards		LB82/500
	J. E. Richards and C.W. Richards	Applied Mechanics, et al		LB206/8
	Applied Mechanics, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102

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919996

Ruby Doison, et al	J. E. Richards	LB80/449
J. E. Richards	J. E. Richards and C. W. Richards	LB80/455
J. E. Richards and C. W. Richards	Applied Mechanics, et al	LB206/8
Applied Mechanics, et al	FS Limited Partnership	AB274/80
FS Limited Partnership	EQT Production Co.	AB274/102

4708

21592

1/8 Min pd.

Lillie McDonald, et al	Shenandoah Energy Co.	LB148/765
Shenandoah Energy Co.	Gene Stalnaker	LB152/486
Gene Stalnaker	Angus Energy, Inc.	LB212/137
Angus Energy, Inc.	Stalnaker Energy Corp. (Name Change)	CB6/225
Stalnaker Energy Corp.	Antero Resources Corp.	LB264/875
Antero Resources Corp.	EQT Production Co.	

919994

1/8 Min pd.

Eihel M. Turner, widow	J. E. Richards	LB80/451
J. E. Richards	J. E. Richards and C. W. Richards	LB80/455
J. E. Richards and C. W. Richards	Applied Mechanics, et al	LB206/8
Applied Mechanics, et al	FS Limited Partnership	AB274/80
FS Limited Partnership	EQT Production Co.	AB274/102

919987

1/8 Min pd.

A. H. Hodge and Ona Hodge	J. E. Richards	LB80/449
J. E. Richards	J. E. Richards and C. W. Richards	LB80/455
J. E. Richards and C. W. Richards	Bolyard Oil & Gas, LTD	LB169/310
Bolyard Oil & Gas, LTD	Sheffield Exploration Co.	LB189/521
Sheffield Exploration Co.	M. S. Oil Co. (69.513% of working interest) and Applied Mechanics Corp.	LB208/268
M. S. Oil Co. (69.513%)	Applied Mechanics, et al	LB222/836
Applied Mechanics, et al	FS Limited Partnership	AB274/80
FS Limited Partnership	EQT Production Co.	AB274/102

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919997

1/8 Min pd.

Pearl Hutchinson, et al	J. E. Richards	LB80/447
J. E. Richards	J. E. Richards and C. W. Richards	LB80/455
J. E. Richards and C.W. Richards	Applied Mechanics, et al	LB206/8
Applied Mechanics, et al	FS Limited Partnership	AB274/80
FS Limited Partnership	EQT Production Co.	AB274/102

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919988

1/8 Min pd.

Arden Wilson, et ux	J. E. Richards	LB81/515
J. E. Richards	J. E. Richards and C. W. Richards	LB80/455
J. E. Richards and C.W. Richards	Applied Mechanics, et al	LB206/8
Applied Mechanics, et al	FS Limited Partnership	AB274/80
FS Limited Partnership	EQT Production Co.	AB274/102

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: [Signature]  
 Its: Permitting Supervisor

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

Date of Notice Certification: 5/21/2015

API No. 47 - 085 - 0  
Operator's Well No. 515883  
Well Pad Name: PUL96

**Notice has been given:**

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

State: <u>WV</u>	UTM NAD 83 Easting: <u>501,214.98</u>
County: <u>Ritchie</u>	UTM NAD 83 Northing: <u>4,340,205.69</u>
District: <u>Union</u>	Public Road Access: <u>CR 7/4</u>
Quadrangle: <u>Pullman</u>	Generally used farm name: <u>James H &amp; Wilma J Wilson</u>
Watershed: <u>Goose Run of Rockcamp Run</u>	

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR</p> <p style="padding-left: 150px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
--	---

**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.

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Office of Oil & Gas  
MAY 28 2015

**07/24/2015**



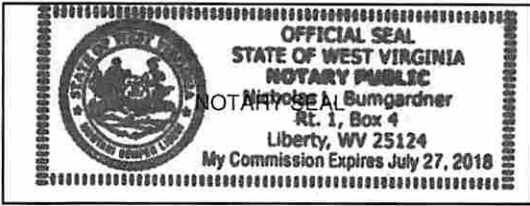
**Certification of Notice is hereby given:**

THEREFORE, I *[Signature]*, 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.

4702510219

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

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



Subscribed and sworn before me this 26 day of May, 2015

*[Signature]* Notary Public

My Commission Expires 7/27/2018

**Oil and Gas Privacy Notice:**

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

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**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: 5/27/2015 Date Permit Application Filed: 5/27/2015

**Notice of:**

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

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

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

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) 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: Wilma J Wilson  
 Address: 214 N Church St  
Harrisville WV 26362

COAL OWNER OR LESSEE  
 Name: David R & Judy Wilson  
 Address: 42 School St  
Harrisville WV 26362

Name: James Douglas Wilson  
 Address: 214 N Church St  
Harrisville WV 26362  
See Attached

COAL OPERATOR  
 Name: 0  
 Address: 0  
0

SURFACE OWNERS(s) (Road and/or Other Disturbance)  
 Name: Wilma J Wilson  
 Address: 214 N Church St  
Harrisville WV 26362  
0

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
 Name: 0  
 Address: 0  
0

Name: James Douglas Wilson  
 Address: 214 N Church St  
Harrisville WV 26362  
See Attached

SURFACE OWNER(s) (Impoundments/Pits)  
 Name: Wilma J Wilson  
 Address: 214 N Church St  
Harrisville WV 26362  
See Attached

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

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\*Please attach additional forms if necessary

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

**Time Limits and Methods for Filing Comments.**

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

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Notice is hereby given by:

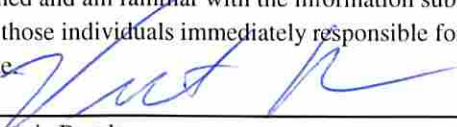
Well Operator: EQT Production Company  
Telephone: 304-848-0082  
Email: Vroark@eqt.com

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

**Oil and Gas Privacy Notice:**

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

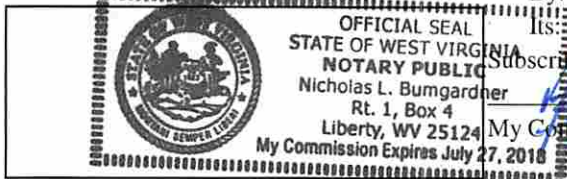


By: Victoria Roark

Its: Permitting Supervisor

Subscribed and sworn before on 26 day of MAY, 2015

Notary Public



My Commission Expires 7/27/2018

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07/24/2015



WW6-A

**Additional Surface Owners:**

Robert Brian Wilson ✓  
665 Nicolette Rd  
Parkersburg WV 26104

James Bardley Wilson ✓  
665 Nicolette Rd  
Parkersburg WV 26104

Ian David Wilson ✓  
80 Pullman Rd  
Harrisville, WV 26362

David R Wilson & Judy Wilson ✓  
42 School St  
Harrisville WV 26362

Jean W Moore ✓  
1590 Rock Camp Rd  
Harrisville WV 26362

**Additional Surface Owners: Access Road**

Robert Brian Wilson ✓  
665 Nicolette Rd  
Parkersburg WV 26104

James Bradley Wilson ✓  
665 Nicolette Rd  
Parkersburg WV 26104

Ian David Wilson ✓  
80 Pullman Rd  
Harrisville, WV 26362

David R Wilson & Judy Wilson ✓  
42 School St  
Harrisville WV 26362

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07/24/2015

**Additional Surface Owners: Pits/Impoundments**

James Douglas Wilson ✓  
214 N Church St  
Harrisville WV 26362

Robert Brian Wilson ✓  
665 Nicolette Rd  
Parkersburg WV 26104

James Bradley Wilson ✓  
665 Nicolette Rd  
Parkersburg WV 26104

Ian David Wilson ✓  
80 Pullman Rd  
Harrisville, WV 26362

David R Wilson & Judy Wilson ✓  
42 School St  
Harrisville WV 26362

**Additional Coal Owners**

James Douglas Wilson ✓  
214 N Church St  
Harrisville WV 26362

Wilma J Wilson ✓  
214 N Church St  
Harrisville WV 26362

Jean Moore ✓  
1590 Rock Camp Rd  
Harrisville WV 26362

Karen Roche ✓  
3131 Ellenboro Rd  
Harrisville WV 26362

Laurie Ann Haddox ✓  
1407 Pullman Rd  
Harrisville WV 26362

Linda D Hall ✓  
406 South Spring St  
Harrisville WV 26362

Mary E Props ✓  
579 Lambs Run  
Harrisville WV 26362

Oleta Jane Wilson ✓  
665 Nicolette Rd  
Parkersburg WV 26104

Oma Jean Wilson ✓  
886 Cherry Rd  
Massillon OH 44647

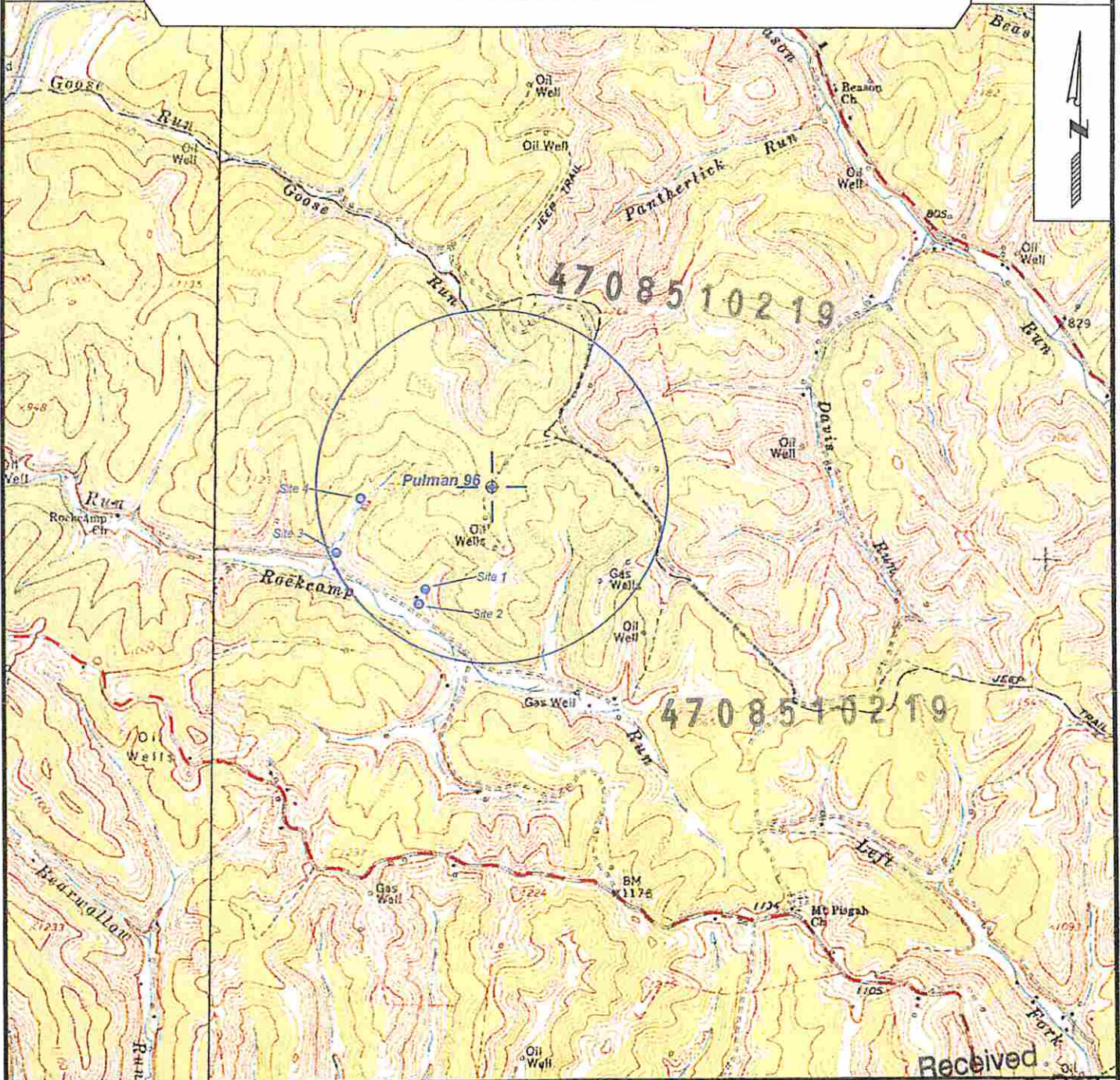
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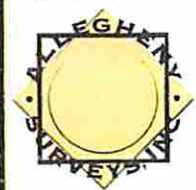


Topo Quad: Pullman 7.5' Scale: 1" = 2000'  
 County: Ritchie Date: December 12, 2014  
 District: Union Project No: 243-38-U-14

**PULLMAN 96**



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SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:  
**Office of Oil & Gas**  
**EQT Production Company**  
 P.O. Box 280  
 Bridgeport, WV 26330



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

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

**Notice Time Requirement:** Notice shall be provided at least TEN (10) days prior to filing a permit application.

**Date of Notice:** 4-24-15 **Date Permit Application Filed:** 5-4-15

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

**HAND DELIVERY**       **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

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

**Name:** Wilma J. Wilson  
**Address:** 214 N. Church St.  
Harrisville, WV 26362

**Name:** James Douglas Wilson  
**Address:** 214 N. Church St.  
Harrisville, WV 26362

**Notice is hereby given:**

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

State:	<u>WV</u>	UTM NAD 83	Easting	<u>501,214.98</u>
County:	<u>Ritchie</u>		Northing	<u>4,340,205.69</u>
District:	<u>Union</u>		Public Road Access:	<u>12/3</u>
Quadrangle:	<u>Pullman 7.5'</u>		Generally used farm name:	<u>Wilson</u>
Watershed:	<u>Goose Run of Rockcamp Run</u>			

**This Notice Shall Include:**

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

**Notice is hereby given by:**

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

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

**Oil and Gas Privacy Notice:**

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

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07/24/2015

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

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

**Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.**

Date of Notice: 4-24-15 Date Permit Application Filed: 5-4-15

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

HAND DELIVERY

CERTIFIED MAIL RETURN RECEIPT REQUESTED

4708510219

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

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

Name: Robert Brian Wilson  
Address: 665 Nicolette Rd  
Parkersburg, WV 26104

Name: James Bradley Wilson  
Address: 665 Nicolette Rd  
Parkersburg, WV 26104

Notice is hereby given:

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

State: <u>WV</u>	UTM NAD 83	Easting: <u>501,214.98</u>
County: <u>Ritchie</u>		Northing: <u>4,340,205.69</u>
District: <u>Union</u>		Public Road Access: <u>12/3</u>
Quadrangle: <u>Pullman 7.5'</u>		Generally used farm name: <u>Wilson</u>
Watershed: <u>Goose Run of Rockcamp Run</u>		

This Notice Shall Include:

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

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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Office of Oil & Gas  
MAY 28 2015

07/24/2015



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

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

**Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.**

Date of Notice: 4-24-15 Date Permit Application Filed: 5-4-15

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

HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

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

Name: Ian David Wilson  
Address: 4850 Pullman Drive  
Harrisville, WV 26362

Name: David R. Wilson and Judy Wilson  
Address: 42 School St.  
Harrisville, WV 26362

**Notice is hereby given:**

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

State:	<u>WV</u>	UTM NAD 83	Easting	<u>501,214.98</u>
County:	<u>Ritchie</u>		Northing	<u>4,340,205.69</u>
District:	<u>Union</u>		Public Road Access:	<u>12/3</u>
Quadrangle:	<u>Pullman 7.5'</u>		Generally used farm name:	<u>Wilson</u>
Watershed:	<u>Goose Run of Rockcamp Run</u>			

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Facsimile: 304-848-0041

Authorized Representative: Victoria Roark  
Address: 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
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4708510219

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

Name: Jean W. Moore Name: \_\_\_\_\_  
Address: 1590 Rock Camp Rd. Address: \_\_\_\_\_  
Harrisville, WV 26362

Notice is hereby given:

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

State: WV UTM NAD 83 Easting 501,214.98  
County: Ritchie Northing 4,340,205.69  
District: Union Public Road Access: 12/3  
Quadrangle: Pullman 7.5' Generally used farm name: Wilson  
Watershed: Goose Run of Rockcamp Run

This Notice Shall Include:

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Notice is hereby given by:

Well Operator: EQT Production Company Authorized Representative: Victoria Roark  
Address: 115 Professional Place, P.O Box 280 Address: 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330 Bridgeport, WV 26330  
Telephone: 304-848-0076 Telephone: 304-848-0076  
Email: [vroark@eqt.com](mailto:vroark@eqt.com) Email: [vroark@eqt.com](mailto:vroark@eqt.com)  
Facsimile: 304-848-0041 Facsimile: 304-848-0041

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07/24/2015

WW-6A5  
(1/12)

Operator Well No. 515883

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: 5/27/2015 Date Permit Application Filed: 5/27/2015

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: Wilma J Wilson  
Address: 214 N Church St  
Harrisville WV 26362

Name: James Douglas Wilson  
Address: 214 N Church St  
Harrisville WV 26362

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: 501,214.980000  
County: Ritchie Northing: 4,340,205.690000  
District: Union Public Road Access: CR 7/4  
Quadrangle: Pullman Generally used farm name: James H & Wilma J Wilson  
Watershed: Goose Run of Rockcamp 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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

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

Oil and Gas Privacy Notice:

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4708510219

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WW-6A5  
(1/12)

Operator Well No. 515883

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: 5/27/2015 Date Permit Application Filed: 5/27/2015

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

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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: Robert Brian Wilson  
Address: 665 Nicolette Rd  
Parkersburg WV 26104

Name: James Bradley Wilson  
Address: 665 Nicolette Rd  
Parkersburg WV 26104

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: 501,214.980000  
County: Ritchie Northing: 4,340,205.690000  
District: Union Public Road Access: CR 7/4  
Quadrangle: Pullman Generally used farm name: James H & Wilma J Wilson  
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Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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

Address: 115 Professional Place, P.O. Box 280  
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WW-6A5  
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Operator Well No. 515883

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: 5/27/2015 Date Permit Application Filed: 5/27/2015

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

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  HAND  
DELIVERY

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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: Ian David Wilson  
Address: 80 Pullman Rd  
Harrisville, WV 26362

Name: David R Wilson & Judy Wilson  
Address: 42 School St  
Harrisville WV 26362

Notice is hereby given:

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

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Operator Well No. 515883

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NOTICE OF PLANNED OPERATION

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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: Jean W Moore  
Address: 1590 Rock Camp Rd  
Harrisville WV 26362

Name: \_\_\_\_\_  
Address: 4708510219

Notice is hereby given:

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

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County: Ritchie Northing: 4,340,205.690000  
District: Union Public Road Access: CR 7/4  
Quadrangle: Pullman Generally used farm name: James H & Wilma J Wilson  
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07/24/2015



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

February 19, 2015

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

Subject: DOH Permit for the PUL 96 Pad Site, Ritchie County

515883 PUL96H1	515884 PUL96H2	515885 PUL96H3
515886 PUL96H4	515887 PUL96H5	515888 PUL96H6
515965 PUL96H7	515966 PUL96H8	515967 PUL96H9
515977 PUL96H10		

Dear Mr. Martin,

This well site will be accessed from Permit #03-2015-0122 applied for by EQT Production Company for access to the State Road. The well site is located off of Ritchie County Route 12/3 SLS. Approved permit must be received before the start of construction.

4708510219

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

Very Truly Yours,

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

Cc: Nick Bumgardner  
EQT Production Company  
CH, OM, D-3, File

Received  
Office of Oil & Gas  
MAY 28 2015



*Handwritten signature*

## PUL 96

### FINAL SITE DESIGN, CONSTRUCTION PLANS, & EROSION & SEDIMENT CONTROL PLANS

#### EQT PRODUCTION COMPANY

Project Location

### FLOODPLAIN CONDITIONS

DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN: **NO**

FERRITE NEEDED FROM COUNTY FLOODPLAIN COORDINATOR: **NO**

REC-HAS STUDY COMPLETED: **NO**

FLOODPLAIN SHOWS OH (DRAWINGS): **NO**

FRR (BY P. HOURS) FOR SITE: **541020952**

AGE/AGES OF CONSTRUCTION IN FLOODPLAIN: **NO**

NO WETLANDS OR STREAMS ARE IMPACTED

#### PROPOSED WELL LEGEND

- H9 515967 - LAT. 39 211306 / LONG.-80 985604
- H8 515966 - LAT. 39 211269 / LONG.-80 985829
- H6 515888 - LAT. 39 211233 / LONG.-80 985553
- H4 515866 - LAT. 39 211196 / LONG.-80 985878
- H3 515885 - LAT. 39 211160 / LONG.-80 985902
- H1 515883 - LAT. 39 211123 / LONG.-80 985927
- H10 515877 - LAT. 39 211087 / LONG.-80 985951 (API# 47-085-10210)
- H7 515965 - LAT. 39 211050 / LONG.-80 985976 (API# 47-085-10209)
- H5 515887 - LAT. 39 211014 / LONG.-80 986000 (API# 47-085-10211)
- H2 515884 - LAT. 39 210977 / LONG.-80 986025 (API# 47-085-10207)

**PROJECT CONTACTS**

**EQZ**

Chris Metzger - EQZ Production Company  
304-842-0075 O/E

Ray Mery - Lachlan is Using EQZ Production Company  
304-827-0387 Mobile  
304-849-8656 Home  
304-849-8656 O/E

Miss Swisher - PS - Allegheny Surveys Inc  
304-624-6443 Office

Thomas D. Goodwin - PE, PS - Horner Brothers Engineers  
304-624-6443 Office

Design Certificate

The drawings, construction notes, and references were prepared by the undersigned in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas §15-4-71. The information reflects a temporary use of land. The proposed mining method proposed, face, pond & lined.

### SHEET INDEX

COVER SHEET / LOCATION MAP  
EXISTING CONDITIONS PLAN  
SCHEDULE OF QUANTITIES  
CONSTRUCTION GENERAL AND BSS NOTES  
WELL PAD PROFILE & CROSS SECTIONS  
COMPLETION PROFILE & CROSS SECTIONS  
WELL PAD ACCESS PROFILE & CROSS SECTIONS  
COMPLETION PROFILE & CROSS SECTIONS  
CONSTRUCTION DETAILS  
RECONSTRUCTION PLAN

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**REVISIONS**

ADDED REVISIONS FOR JULY 15, 2015

**DATE:** 7/23/2015  
**SCALE:** N/A

**PROJECT:** PUL 96  
**CLIENT:** EQZ PRODUCTION COMPANY  
**LOCATION:** CLAY & LINDEN DISTRICTS, PUTTICUM COUNTY, WV

**DESIGNED BY:** HONOR BROS. ENGINEERS  
**DATE:** 7/23/2015

**APP:** 1 of 11

**Know what's below. Call before you dig.**

MISS Utility of West Virginia  
1-800-245-4848  
West Virginia State Law  
(Section XIV: Chapter 24-C)  
Requires that you call two business days before you dig in the state of West Virginia.  
**IT'S THE LAW!!**

Case

**ALLEGHENY SURVEYS INC.**  
 P.O. Box 438  
 237 Birch River Road  
 Birch River, WV 26810  
 304-649-8606

**Honor Bros. Engineers**  
 1202  
 Civil, Mining, Environmental and  
 Consulting Engineers

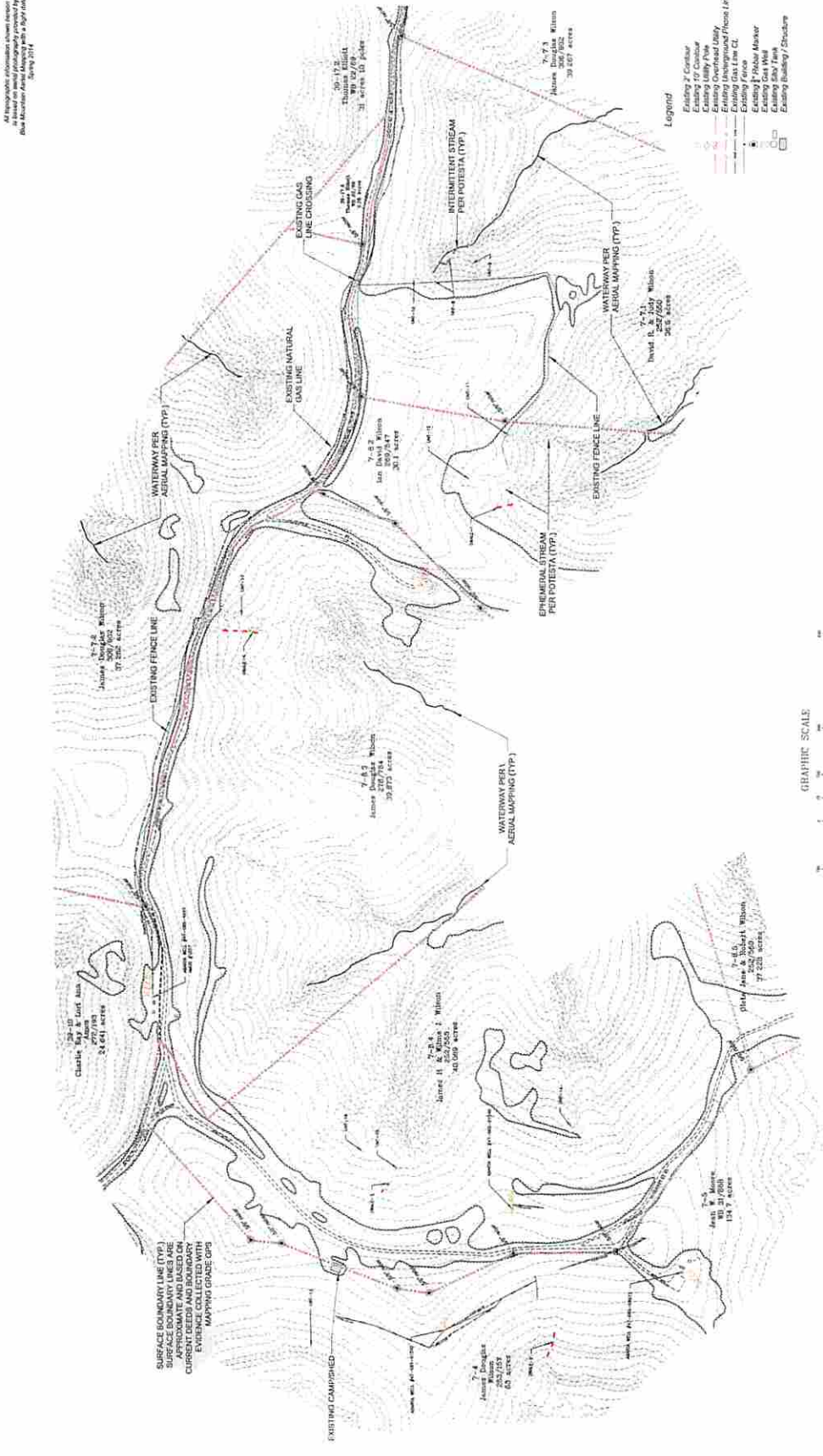
**EQT**  
 THE BOARDMAN  
 DISTRICT  
 OF PUTNAM  
 COUNTY  
 COMPANY

**PUL 96  
 WELL PAD SITE**  
 CLAY & UNION DISTRICTS  
 RITCHIE COUNTY, WV

DATE	REVISIONS
4/11/15	UNDATED DEVIATIONS TO COND. PLAN NUMBER 303
DATE	REVISIONS
4/11/15	UNDATED DEVIATIONS TO COND. PLAN NUMBER 303
DATE	REVISIONS
4/11/15	UNDATED DEVIATIONS TO COND. PLAN NUMBER 303

**ALLEGHENY SURVEYS INC.**  
 An Equal Opportunity Employer  
 237 Birch River Road  
 Birch River, WV 26810  
 304-649-8606

**PUL-96 WELL PAD  
 EXISTING CONDITIONS SITE PLAN**



DATE	REVISIONS
4/11/15	UNDATED DEVIATIONS TO COND. PLAN NUMBER 303
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4/11/15	UNDATED DEVIATIONS TO COND. PLAN NUMBER 303





Allegheny Surveys Inc  
P O Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606

Hornor  
1922  
Civil, Mining, Engineering  
2711  
P.O. Box 208  
Martinsburg, WV 26151

EQT  
EARTHQUAKE  
PROTECTION  
CORPORATION

SCHEDULE OF QUANTITIES - GRADING  
WELL PAD SITE  
CLAY & UNION DISTRICTS  
KITCHEE COUNTY, WV

Table with columns: Date (11-13-2015), Scale (N/A), Project No. (15-0125), and Page (1 of 1).

Table with columns: REV, CF, CY, BARRELS, GALLONS, ACFT, ACFT, UNIMAGED. Includes rows for FLOWBACK PIT STORAGE and COMPLETION PIT STORAGE.

Table with columns: REV, CF, CY, BARRELS, GALLONS, ACFT, ACFT, UNIMAGED. Includes rows for FLOWBACK PIT STORAGE and COMPLETION PIT STORAGE.

Table with columns: L, D, AREA (ACRES). Includes rows for WELL PAD ACCESS ROAD, WELL PAD, FLOWBACK PIT, etc.

Table with columns: DESCRIPTION, CUT (CY), FILL (CY), NET (CY). Includes rows for WELL PAD ACCESS ROAD, WTI1 PAD, etc.

Table with columns: DESCRIPTION, AREA (ACRES). Includes rows for L.O.D AREAS, WELL PAD ACCESS ROAD, WELL PAD, etc.

Table with columns: DESCRIPTION, CUT (CY), FILL (CY), NET (CY). Includes rows for GRADING VOLUMES, WELL PAD ACCESS ROAD, WTI1 PAD, etc.

Table with columns: UNIT, QUANTITY. Includes rows for Excavation, Gravel, Sand, etc.

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NOTES:  
1 TOPSOIL QUANTITY FOR THIS SITE IS ESTIMATED AT A MINIMUM THICKNESS OF 8" OVER THE ENTIRE EXCAVATED AREA. ACTUAL QUANTITY MAY VARY.  
2 AREAS RECEIVING JETTING AND SYNTHETIC MATTING (TRM) ARE TO BE SEEDED, LIMED AND FERTILIZED PRIOR TO INSTALLATION OF MATERIALS.  
3 ALL PROPOSED SLOPES TO BE 2:1 EXCEPT WHERE NOTED.

GRADING FACTORS  
CUT SLOPE 2:1  
FILL SLOPE 2:1  
CUT SOIL SWELL FACTOR 1.05  
TOP SOIL SWELL FACTOR 1.20  
FILL SHRINK FACTOR 1.00  
WELL PAD ELEVATION 1182.00'

CONSTRUCTION NOTE:  
CONSTRUCTION OF ALL FILL EMBANKMENTS (INCLUDING STOCKPILES) REQUIRE TOE KEY BENCHES AND SIDEHILL BENCHES (SEE DETAIL S 24, 25 & 26)







2-20



**Horner Bros. Engineers**  
1802  
Civil, Consulting Engineering  
and Surveying  
304-649-8606  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610



**Allegheny Surveys Inc.**  
1014  
Surveying  
304-649-8606  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610

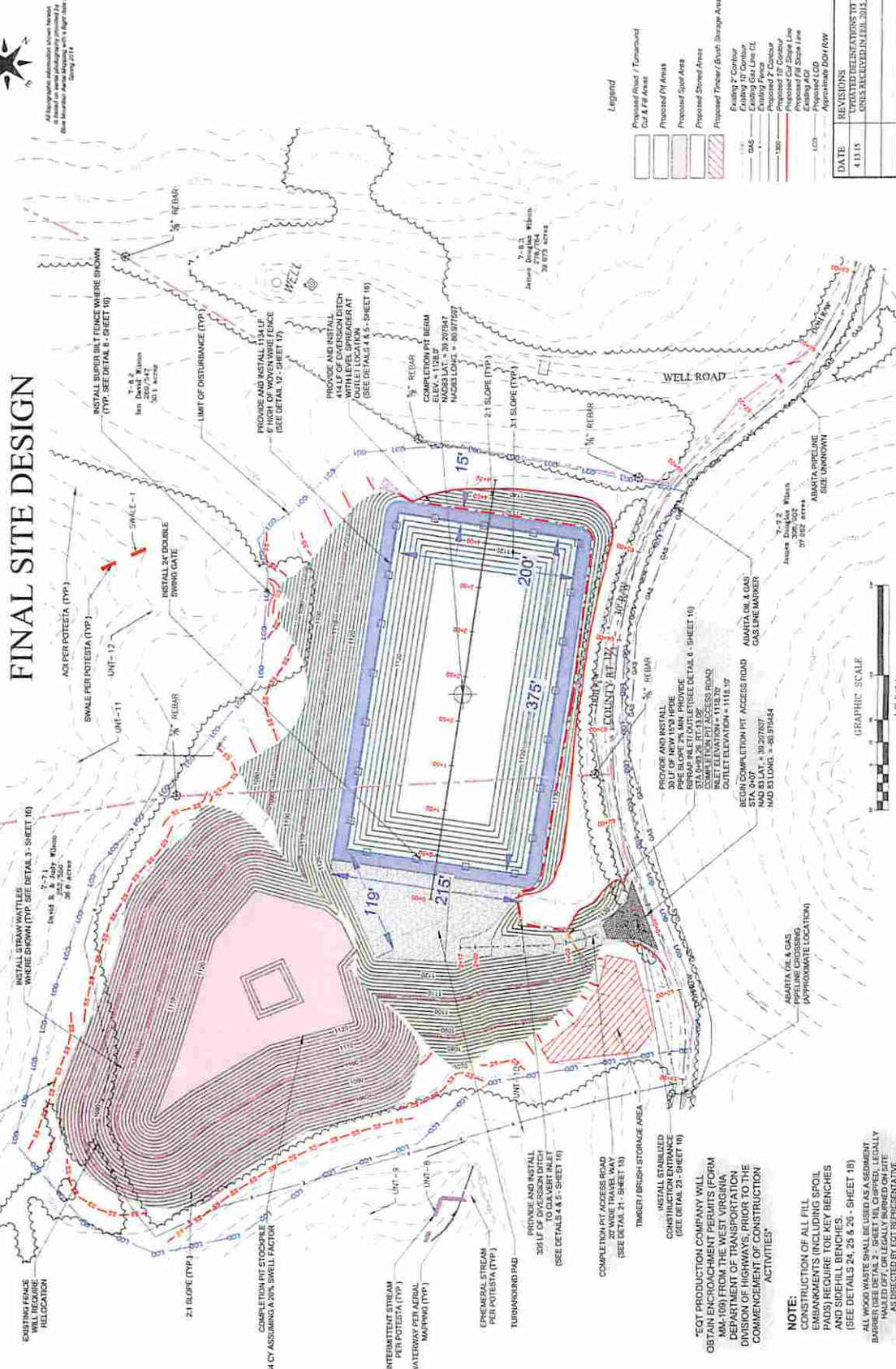


**EOT Engineering**  
1014  
Engineering  
304-649-8606  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610

**FINAL SITE DESIGN**  
**PUL 96 WELL PAD SITE**  
CLAY & LINCOLN DISTRICTS  
HITCHCOCK COUNTY, WV



# PUL 96 WELL PAD FINAL SITE DESIGN



DATE	REVISIONS
4.13.15	UNRECORDED PERMITS TO CONSTRUCTION
	Scale: 1"=50'
	Prepared by: EOT
	Drawn by: EOT
	File: 4708510219
	Plot: 3 of 11

**NOTE:**  
CONSTRUCTION OF ALL FILL  
EMBANKMENTS (INCLUDING SPOIL  
PADS) REQUIRE TOE KEY BENCHES  
(SEE DETAILS 2-9, 2-9.20 - SHEET 18)  
ALL WOOD WASTE SHALL BE USED AS A SEPARATE  
BATCHED OFF, OR LEGALLY BURIED ON SITE  
AS DIRECTED BY EOT REPRESENTATIVE

EOT PRODUCTION COMPANY WILL  
OBTAIN ENCROACHMENT PERMITS (FORM  
NO. 10) FROM THE WEST VIRGINIA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS PRIOR TO THE  
COMMENCEMENT OF CONSTRUCTION  
ACTIVITIES.

INSTALL STRAW MATS  
WHERE SHOWN (TYP. SEE DETAIL 3 - SHEET 16)

INSTALL STRAW MATS  
WHERE SHOWN (TYP. SEE DETAIL 3 - SHEET 16)

INSTALL STRAW MATS  
WHERE SHOWN (TYP. SEE DETAIL 3 - SHEET 16)

INSTALL STRAW MATS  
WHERE SHOWN (TYP. SEE DETAIL 3 - SHEET 16)

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INSTALL STRAW MATS  
WHERE SHOWN (TYP. SEE DETAIL 3 - SHEET 16)

INSTALL STRAW MATS  
WHERE SHOWN (TYP. SEE DETAIL 3 - SHEET 16)



SMC

**PUL 96 WELL PAD SITE**  
FINAL SITE DESIGN

CLAY & UNION DISTRICTS  
MITCHELL COUNTY, VA

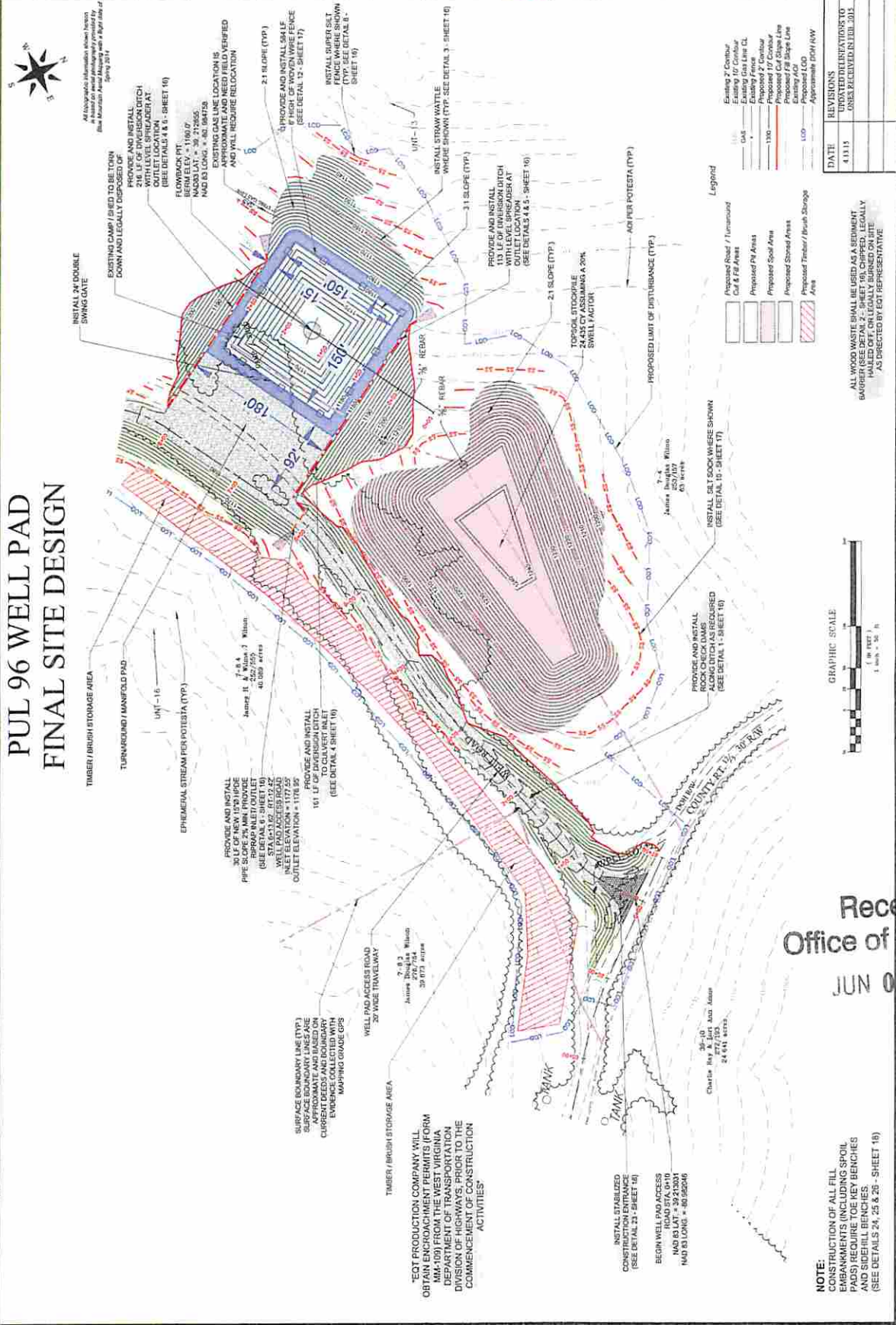
**EQT**  
THIS DOCUMENT IS THE PROPERTY OF PRODUCTION COMPANY

Hornor Bros. Engineers  
Civil, Consulting, Engineering and Surveying  
3010 West Park Drive, Suite 200  
Greenville, SC 29615

Allegheny Surveys Inc.  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26101  
304-649-8606

Date: 10/27/15  
Scale: 1"=50'  
Designed by: JMC  
In Charge: JMC  
Page: 9 of 11

# PUL 96 WELL PAD FINAL SITE DESIGN



REVISIONS

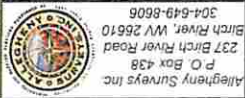
DATE	REVISIONS
4.11.15	FINAL SITE DESIGN
	DESIGNED BY: JMC
	IN CHARGE: JMC



Received  
Office of Oil & Gas  
JUN 04 2015

**NOTE:**  
CONSTRUCTION OF ALL FILL  
EMBANKMENTS (INCLUDING SPOIL  
EMBANKMENTS) SHALL BE DONE BY A PERMITTED  
CONTRACTOR AND SHALL BE MONITORED BY THE  
DESIGNER'S FIELD REPRESENTATIVE.  
(SEE DETAILS S 24, 25 & 26 - SHEET 18)





Allegheny Surveyors Inc.  
P O Box 438  
237 Birch Run Road  
304-649-8606

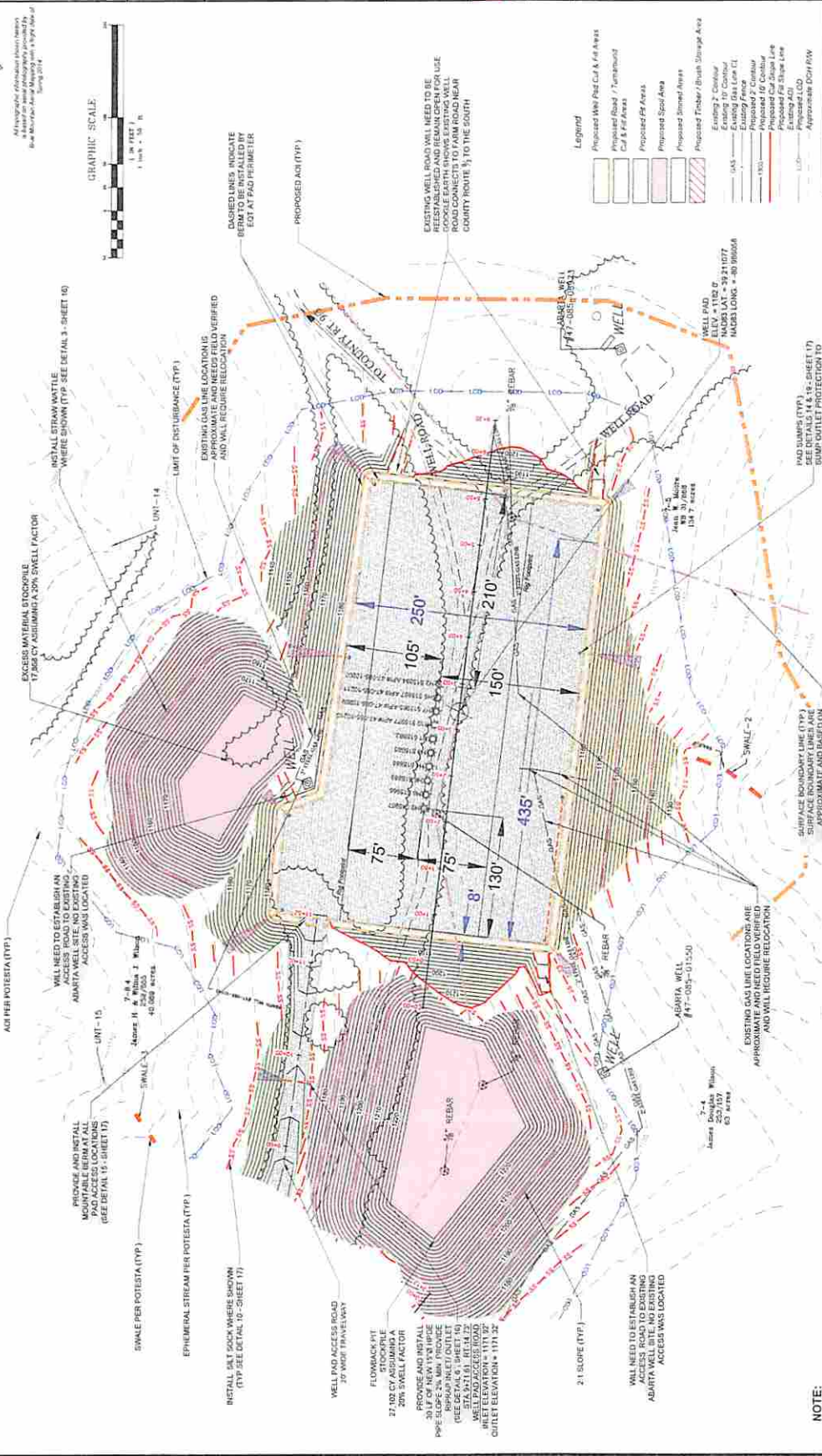
Hornor Bros. Engineers  
1300  
1300  
1300



THIS DOCUMENT IS THE PROPERTY OF HORNOR BROS. ENGINEERS COMPANY  
PUL 96  
WELL PAD SITE  
FINAL SITE DESIGN  
CLAY & UNION DISTRICTS  
MITCHELL COUNTY, W.V.

Date	11/13/15
Scale	1" = 50'
Sheet No.	1
Project No.	15-00000000000000000000
Client	CLAY & UNION DISTRICTS

# PUL 96 WELL PAD FINAL SITE DESIGN



DATE	REVISIONS
4/13/15	1. INITIAL DESIGN
4/23/15	2. REVISED DESIGN
11/13/15	3. FINAL DESIGN

**Legend**

- Proposed Well Pad C&U Area
- Proposed Road / Turnaround C&U & Fill Areas
- Proposed PA Areas
- Proposed Spill Area
- Proposed Shovel Areas
- Proposed Timber / Brush Storage Area
- Existing 2' Contour
- Existing Gas Line CL
- Proposed Gas Line CL
- Proposed 10' Contour
- Proposed Gas Line Line
- Proposed 10' Slope Line
- Proposed LOD
- Approximate DCR ROW

**NOTE:**  
CONSTRUCTION OF ALL FILL EMBANKMENTS (INCLUDING SPILL PADS) REQUIRE TOE KEY BENCHES AND SIDEHILL BENCHES. (SEE DETAILS 24, 25 & 26 - SHEET 1B)

**NOTE:**  
WELL NEEDS TO ESTABLISH AN ACCESS ROAD TO EXISTING ABARTA WELL SITE, NO EXISTING ACCESS WAS LOCATED

**NOTE:**  
EXISTING GAS LINE LOCATIONS ARE APPROXIMATE AND NEED FIELD VERIFICATION AND WILL REQUIRE RELOCATION

**NOTE:**  
SURFACE BOUNDARY LINE (TYP) SURFACE BOUNDARY LINE ARE SURFACE BOUNDARY LINE BASED ON CURRENT USE AND SHOULD BE EVIDENCE COLLECTED WITH MAPPING GRADE DPS

**NOTE:**  
PAD DUMPS (TYP) SEE DETAILS 14 & 15 - SHEET 17) EXTEND TO TOE OF FILL SLOPE

**NOTE:**  
WELL NEEDS TO ESTABLISH AN ACCESS ROAD TO EXISTING ABARTA WELL SITE, NO EXISTING ACCESS WAS LOCATED

Received  
Office of Oil & Gas  
JUN 04 2015