



west virginia department of environmental protection

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

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

June 22, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-8510207, 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: 515884
Farm Name: WILSON, JAMES H. & WILMA J.
API Well Number: 47-8510207
Permit Type: Horizontal 6A Well
Date Issued: 06/22/2015

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

1. 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 fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.

PERMIT CONDITIONS

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

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

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

2) Operator's Well Number: 515884 Well Pad Name: PUL96

3) Farm Name/Surface Owner: James H & Wilma J Wilson Public Road Access: 12/3

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: 13,012

11) Proposed Horizontal Leg Length: 5,617

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

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

Received

MAR 10 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Done
2-27-15

CASING AND TUBING PROGRAM

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 | 13,012 | 13,012 | See Note 1 |
| Tubing | 2 3/8 | | J-55 | 4.6 | | | May not be run, if run will be set 100' less than TD |
| Liners | | | | | | | |

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

Packers

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

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

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

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MAR 10 2015

Office of Oil and Gas
 WV Dept. of Environmental Protection

Dal
 2-27-15

4708510207

WW - 6B
(3/13)

API NO. 47 - 0 - _____
 OPERATOR WELL NO. 515584
 Well Pad Name: PUL96

CASING AND TUBING PROGRAM

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 | 13,012 | 13,012 | 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)

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 JUN 9 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 6545 tag the
Onondaga not more than 100', run logs, then plug back with a solid cement plug to approximately 4775 then kick off the horizontal leg into the
Marcellus formation using a slick water frac.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from
freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid,
gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum
anticipated 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): 26.44

- 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.

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Office of Oil and Gas

JUN 18 2015

*Note: Attach additional sheets as needed.



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304) 926-0460
(304) 926-0452 fax

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

Promoting a healthy environment.

Received

FEB 25 2015

Office of Oil and Gas
WV Dept. of Environmental Protection



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffinan, 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

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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FEB 25 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

CONCLUSIONS OF LAW

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

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

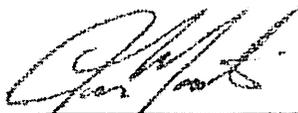
ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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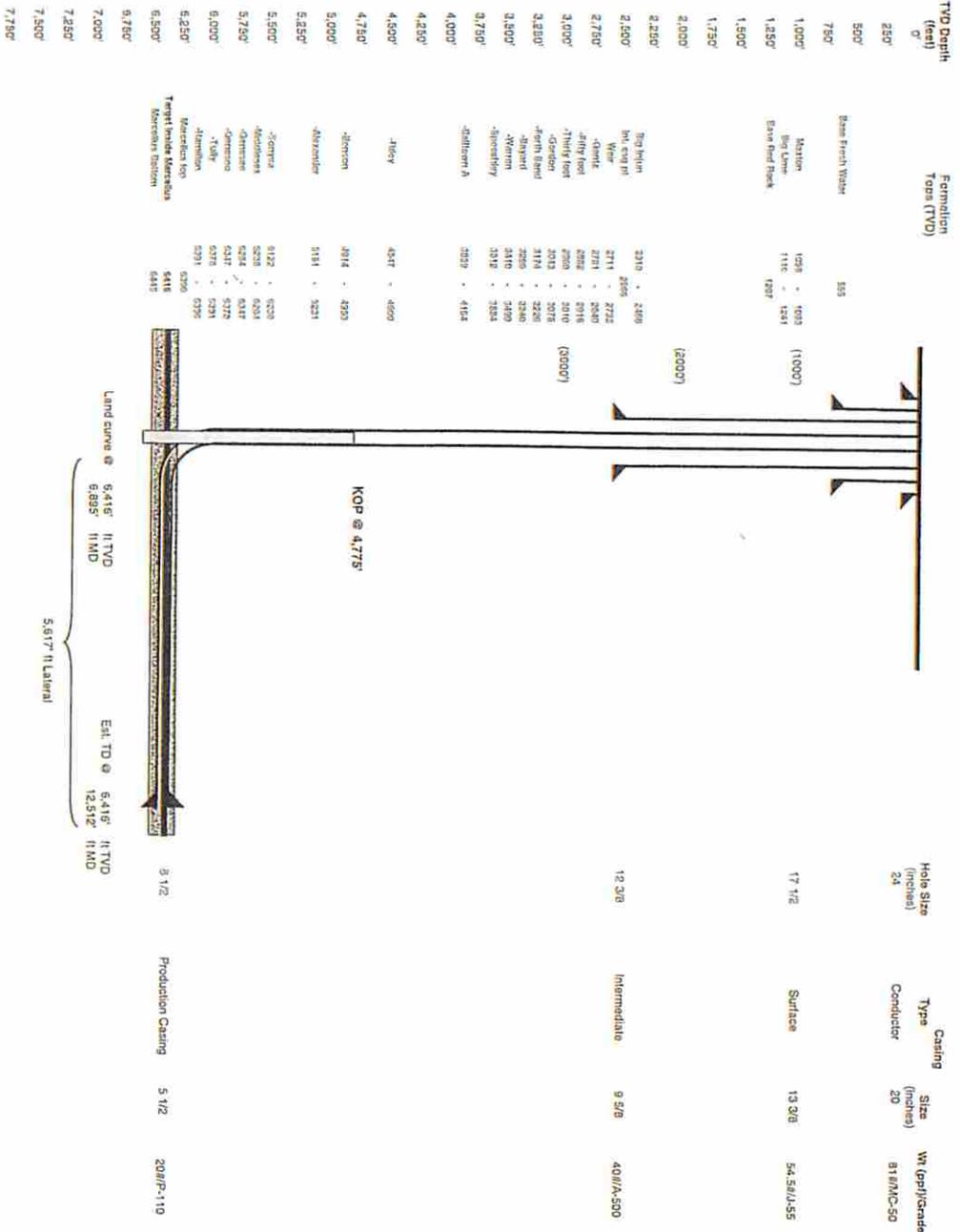
FEB 25 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

085-10207

Well 515884(PUL96H2)
 EQT Production
 Pullman
 Ritchie

West Virginia
 Admit 16413
 Vertical Section 3627



Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 The vertical drill to go down to an approximate depth of 6545'.
 Log the Drivlogs not more than 100' run logs, then plug back with a solid cement plug to approximately 4775'.
 Then kick off the horizontal leg into the Marcellus formation using a slick water frac.

Land store @ 6,416' II TVD
 6,695' II MID
 5,617' II Lateral
 Exit TD @ 6,416' II TVD
 12,512' II MID

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Office of Oil and Gas
 WV Dept. of Environmental Protection

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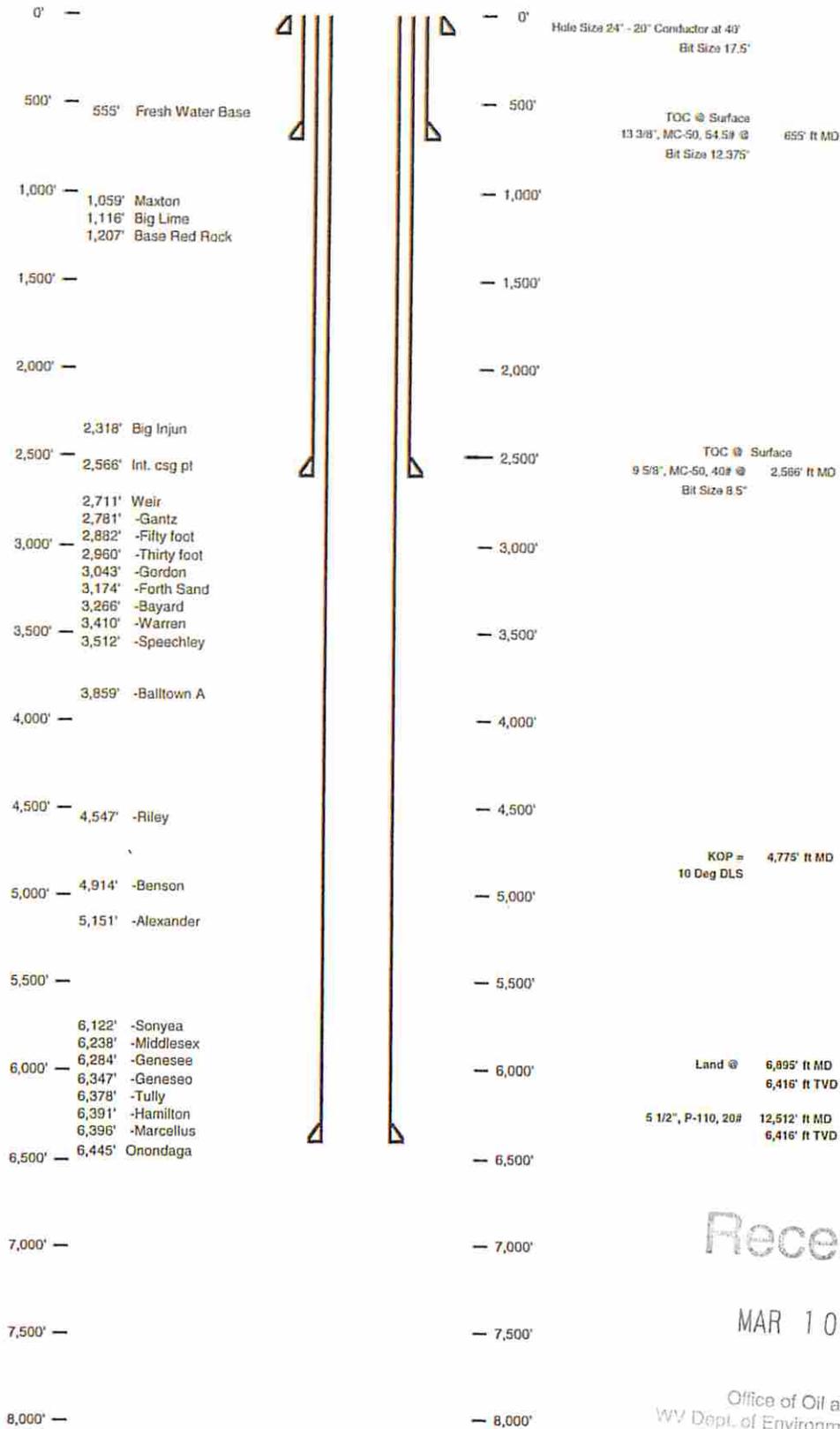
085-10207

Well Schematic
EQT Production

Well Name S15894(FUL96H2)
County Ritchie
State West Virginia

Elevation KB:
Target
Prospect
Azimuth
Vertical Section

| |
|-----------|
| 1195 |
| Marcellus |
| 164.75 |
| 5667 |



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MAR 10 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

gwe

WW-9
(5/13)

Page 1 of 2
API No. 47 - 085 - 0
Operator's Well No. 515884

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
Elevation 1182.0 County Ritchie District Union

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? Air, freshwater, oil based, etc. Air is used to drill the top-hole sections of the wellbore, Surface, Intermediate, and Pilot hole sections, water based mud is used to drill the curve and lateral.

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

Additives to be used in drilling medium? MILBAR, Viscosifer, Alkalinity Control, Lime, Chloride Salts, Rate Filtration Control, Deflocculant, Lubricant, Detergent, Defoaming, Walnut Shell, X-Cide, SOLTEX Terra. Of the listed chemicals the following are generally used when drilling on air: lubricant, detergent, defoaming. Water based fluids use the following chemicals: MILBAR, viscosifer, alkalinity control, lime, chloride salts, rate filtration control, deflocculant, lubricant, detergent, defoaming, walnut shell, x-cide, SOLTEX terra

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
- If left in pit and plan to solidify what medium will be used? (Cement, Lime, sawdust) n/a
- Landfill or offsite name/permit number? See Attached List

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

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

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FEB 25 2015

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WV Dept. of Environmental Protection

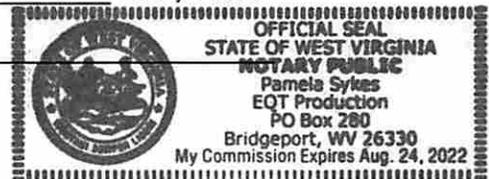
Company Official Signature *Victoria J Roark*
Company Official (Typed Name) Victoria J Roark
Company Official Title Permitting Supervisor

Subscribed and sworn before me this 11 day of Feb, 20 15

Pamela Sykes

My commission expires 8-24-22

Notary Public



WW-9

Operator's Well No. 515884

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 | <u>40</u> | Orchard Grass | <u>15</u> |
| Alsike Clover | <u>5</u> | Alsike Clover | <u>5</u> |
| Annual Rye | <u>15</u> | | |

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. Cannon

Comments: pruned & mulch all cut area no less than 2 ton per acre - maintain all pH's during operations

Title: oil & gas inspector Date: 2-27-15

Field Reviewed? () Yes () No

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MAR 10 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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

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FEB 25 2015



Where energy meets innovation.™

Site Specific Safety Plan

EQT PUL96 Pad

Pullman
Ritchie County, WV

For Wells:

515884

Date Prepared:

December 16, 2014

[Signature]
EQT Production

Title

Date

2-10-15

Permitting Supervisor

[Signature]
WV Oil and Gas Inspector

Title

Date

oil & gas inspector

2-27-15

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

3/6/2015

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Office of Oil and Gas
WV Dept. of Environmental Protection

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.

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.

Received

MAR 10 2015

| Well ID | Prior Operator on Record | Operator-DEP* | Status | Latitude | Longitude | Vertical TD | Closest Distance from PUL96 Lateral Map View | PUL96 Horizontal TWD minus Offset | Hypotenuse Distance | Producing Formation | Gas Show/Pay Zone Depths | Notes |
|------------|--------------------------|------------------------------|--------|----------|-----------|-------------|--|-----------------------------------|--|---------------------|--------------------------|--------------------|
| 4708500796 | JL DAVIS | JL Davis | DRY-P | 39.2034 | -80.9934 | 2054 | | Vertical TD | | | | |
| 4708501372 | RICHARDS ENERGY | Applied Mechanics Corp | GAS | 39.2035 | -80.9855 | 1874 | 46 | 4235 | 5342.530955 Big Injun Sand | | 1925-2012 | Plugged 5/7/1940 |
| 4708501382 | ROCK CAMP OIL & GAS | Richards, Conrad W & James E | GAS | 39.2035 | -80.9861 | 1850 | 363 | 4227 | 5344.050617 Big Injun | | 1870 | Completed 1951 |
| 4708501419 | TWIN FORKS GAS | Richards, Conrad W & James E | DRY | 39.2048 | -80.9763 | 1948 | 374 | 4243 | 5341.022842 2nd Salt Sand | | 1582-1587 | Completed 1951 |
| 4708501428 | HECK & WOODFORD | Richards, Conrad W & James E | GAS-P | 39.2017 | -80.9839 | 1542 | 6 | 4577 | 5288.485322 Salt Sands | | 1539 | Completed 1952 |
| 4708501442 | TWIN FORKS GAS | Richards, Conrad W & James E | GAS-P | 39.2159 | -80.9807 | 2220 | 1439 | 4216 | 5346.158995 Big Injun | | 1218 | Plugged 12/11/1961 |
| 4708501448 | JOHN LOWTHER | HARTMAN & RICHARDS | GAS | 39.2015 | -80.9952 | 1930 | 145 | 4229 | 5343.479391 Big Injun | | 1865 | Completed 1952 |
| 4708501449 | C W & J E RICHARDS | JOHN LOWTHER | GAS | 39.2021 | -80.9939 | 1804 | 908 | 4509 | 5297.915687 Salt Sands | | 1779-1800 | Completed 1953 |
| 4708501463 | LOW GAP GAS | Twin Forks Gas | GAS | 39.2009 | -80.9932 | 1908 | 245 | 4234 | 5342.720281 Salt Sands | | 1850 | Completed 1953 |
| 4708501473 | P O BUNBY | Richards, Conrad W & James E | GAS | 39.1919 | -80.9972 | 2075 | 804 | 4200 | 5349.264622 Big Injun | | 2000 | Completed 1953 |
| 4708501475 | BELL OIL & GAS | Richards, Conrad W & James E | GAS-P | 39.1919 | -80.9817 | 1638 | 1210 | 4579 | 5288.232692 Big Injun | | 1634 | Completed 1953 |
| 4708501488 | STARKEY FARM GAS | Richards, Conrad W & James E | GAS-P | 39.2055 | -80.9981 | 2115 | 531 | 4213 | 5346.371779 Big Injun | | 2062 | Plugged 5/3/1963 |
| 4708501500 | OHIO & WV OIL & GAS | Not available | DRY | 39.2072 | -80.9922 | 1860 | 297 | 4236 | 5342.341809 Keener | | 1772 | Plugged 4/19/1953 |
| 4708501502 | ELDER FARM GAS | Richards, Conrad W & James E | DRY-P | 39.2097 | -80.9969 | 1870 | 475 | 4231 | 5343.289343 Marton, Keener, Big Injun | | 1560-1776 | Completed 1953 |
| 4708501507 | OHIO & WV OIL & GAS | OHIO & WV OIL & GAS | DRY-P | 39.1984 | -80.9989 | 2083 | 356 | 4222 | 5345.000526 Big Injun | | 2083 | Plugged 12/28/1953 |
| 4708501511 | APPLIED MECHANICS | Arter Oil Co. | GAS-P | 39.1955 | -80.9922 | 2164 | 356 | 4222 | 5345.000526 Big Injun | | 2113 | Plugged 1970 |
| 4708501521 | C W & J E RICHARDS | Richards, Conrad W & James E | DRY | 39.2089 | -80.9987 | 1991 | 370 | 4321 | 5326.926031 Keener | | 1992 | Completed 1954 |
| 4708501530 | RUBY OIL & GAS | Messor Oil and Gas Co. | GAS | 39.2111 | -80.9977 | 2100 | 625 | 4251 | 5339.526282 Big Injun and Squaw | | 2060-2077 | Completed 1954 |
| 4708501540 | RICHARDS OIL & GAS | Richards, Conrad W & James E | GAS | 39.2006 | -80.9977 | 2090 | 8 | 4312 | 5338.486222 Keener | | 2090 | Completed 1954 |
| 4708501545 | E I FITZGERALD | E I FITZGERALD | GAS | 39.2037 | -80.9955 | 2098 | 1128 | 4238 | 5341.964058 Big Injun | | 2108 | Completed 1954 |
| 4708501550 | ROLLO OIL & GAS | George Run Gas | GAS | 39.2122 | -80.9863 | 2089 | 349 | 4308 | 5329.198814 Big Injun | | 1975 | Completed 1954 |
| 4708501590 | UNION GAS | Richards, Conrad W & James E | GAS | 39.2045 | -80.9923 | 2064 | 365 | 4242 | 5341.210724 Big Injun | | 2082 | Completed 1955 |
| 4708501601 | INDIAN CREEK O & G | INDIAN CREEK O & G | DRY | 39.1884 | -80.9916 | 1082 | 205 | 5244 | 5246.000381 Squaw | | 2082 | Completed 1956 |
| 4708502596 | PDC | PDC | DRY | 39.1831 | -80.9884 | 2255 | 1347 | 4116 | 5365.322291 Pennsylvania System, Mississippi, Big Injun, Squaw | | 1475-2113 | Completed 1962 |
| 4708502609 | ARTEX OIL | PDC | O&G-P | 39.1823 | -80.9947 | 1980 | 1391 | 4173 | 5354.609696 Squaw | | 1980 | Plugged 1970 |
| 4708502639 | C & F OIL & GAS | Corfille, C. C. | GAS | 39.2122 | -80.9724 | 1375 | 1322 | 4817 | 5263.51188 2nd Salt Sand | | 1375 | Completed 1962 |
| 4708503013 | LITTLE MAD OIL & GAS | LITTLE MAD OIL & GAS | GAS | 39.1882 | -80.9983 | 1920 | 672 | 4238 | 5341.964058 Big Injun | | 1857-1870 | Completed 1965 |
| 4708504443 | HAUGHT | HAUGHT | GAS | 39.2105 | -80.9987 | 2260 | 1061 | 4095 | 5370.783649 Big Injun | | 2144 | Completed 1960 |
| 4708504447 | HAUGHT | HAUGHT | GAS | 39.2125 | -80.9964 | 2279 | 1322 | 4078 | 5374.452531 Big Injun | | 2130 | Completed 1960 |
| 4708504462 | CHASE | CHASE | GAS | 39.2125 | -80.9964 | 5445 | 186 | 899 | 6812.996771 Speecheley, Big Injun | | 3482-5194 | Completed 1980 |
| 4708505121 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.2005 | -80.9793 | 5328 | 3 | 900 | 6812.358769 Riley, Benson, Alexander | | 4116-5086 | Completed 1981 |
| 4708505124 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.1969 | -80.9753 | 5322 | 147 | 938 | 6788.179437 Riley, Benson, Alexander | | 4420-5145 | Completed 1981 |
| 4708505138 | ALLSTATE ENERGY | ALLSTATE ENERGY | O&G | 39.2019 | -80.9783 | 2527 | 367 | 3765 | 5449.958257 Big Injun, Weir | | 2050-2364 | Completed 1981 |
| 4708505193 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.2033 | -80.9728 | 2463 | 299 | 3814 | 5437.93527 2nd Salt Sand Big Injun, Weir | | 1868-2301 | Completed 1981 |
| 4708505194 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.2041 | -80.9728 | 2463 | 381 | 880 | 6825.135351 Riley, Benson, Alexander | | 1447-5138 | Completed 1981 |
| 4708505198 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.2012 | -80.9783 | 2490 | 339 | 3641 | 5486.031444 Big Injun, Weir | | 1868-2188 | Completed 1981 |
| 4708505201 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.1861 | -80.9813 | 2503 | 120 | 3831 | 5433.483321 2nd Salt Sand Big Injun, Weir | | 1732-2393 | Completed 1981 |
| 4708505302 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.1872 | -80.9887 | 3727 | 300 | 2579 | 5885.015293 Speecheley | | 3840-4844 | Completed 1981 |
| 4708505304 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.1974 | -80.9899 | 5262 | 296 | 1046 | 6720.157439 Balltown, Riley, Alexander | | 2015-3413 | Completed 1981 |
| 4708505305 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.2006 | -80.9844 | 3718 | 368 | 2594 | 5878.227228 Big Injun, Warren | | 3882-4844 | Completed 1981 |
| 4708505306 | RICHARDS ENERGY | RICHARDS ENERGY | GAS | 39.2006 | -80.9844 | 3718 | 368 | 2594 | 5878.227228 Big Injun, Warren | | 3882-4844 | Completed 1981 |
| 4708506086 | PRIOR OIL | PRIOR OIL | O&G | 39.2011 | -80.9962 | 5265 | 609 | 1047 | 6703.998544 Bradford, Riley, Benson, Alexander | | 4215-4710 | Completed 1982 |
| 4708506144 | PRIOR OIL & GAS | PRIOR OIL & GAS | O&G | 39.1871 | -80.9926 | 5069 | 80 | 1047 | 6719.532499 Bradford, Riley, Benson, Alexander | | 3287-5168 | Completed 1982 |
| 4708506272 | PRIOR OIL & GAS | PRIOR OIL & GAS | O&G | 39.1902 | -80.9919 | 5255 | 104 | 1126 | 6670.450958 Udey, Lower Huron, Alexander | | 3287-5168 | Completed 1983 |
| 4708506408 | PRIOR OIL & GAS | PRIOR OIL & GAS | O&G | 39.1885 | -80.9953 | 5020 | 1456 | 1074 | 6674.658524 Lower Huron, Alexander | | 3426-4809 | Completed 1983 |
| 4708506434 | PRIOR OIL & GAS | PRIOR OIL & GAS | O&G | 39.2063 | -80.9888 | 5036 | 249 | 1074 | 6702.693488 Udey, Lower Huron, Alexander | | 3198-4961 | Completed 1983 |
| 4708506473 | PRIOR OIL & GAS | PRIOR OIL & GAS | O&G | 39.1829 | -80.9916 | 5287 | 1326 | 1121 | 6673.540355 Udey, Lower Huron, Angola Fm | | 3248-5221 | Completed 1983 |
| 4708506688 | TOWER DRILLING | TOWER DRILLING | GAS | 39.2018 | -80.9716 | 5250 | 783 | 1124 | 6664.664433 Devonian, Angola Fm | | 3248-5221 | Completed 1983 |
| 4708506688 | TOWER DRILLING | TOWER DRILLING | GAS | 39.2018 | -80.9716 | 5250 | 783 | 1124 | 6664.664433 Devonian, Angola Fm | | 3248-5221 | Completed 1983 |
| 4708507033 | ALLSTATE | ALLSTATE | O&G | 39.2087 | -80.9995 | 5027 | 322 | 1054 | 6715.16046 Udey, Lower Huron, Java Fm, Angola Fm | | 3231-5064 | Completed 1983 |
| 4708507296 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.1956 | -80.9778 | 5318 | 1496 | 1051 | 6717.033646 Warren, Java Fm, Alexander | | 3571-4957 | Completed 1983 |
| 4708507315 | ALLSTATE | ALLSTATE | GAS | 39.2022 | -81.0015 | 5367 | 1496 | 999 | 6749.631471 Lower Huron, Angola Fm | | 3414-5162 | Completed 1984 |
| 4708507315 | ALLSTATE | ALLSTATE | GAS | 39.1954 | -80.9802 | 2223 | 1117 | 4130 | 5353.391837 Big Injun | | 5196 | Completed 1985 |
| 4708507516 | STONEWALL GAS | STONEWALL GAS | GAS | 39.2091 | -80.9735 | 4870 | 688 | 4160 | 5357.229881 Big Injun | | 2062-2107 | Completed 1986 |
| 4708508972 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2149 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508973 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2101 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508974 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508975 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508976 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508977 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508978 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508979 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508980 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508981 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508982 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508983 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508984 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508985 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508986 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508987 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508988 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508989 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508990 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508991 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508992 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.325028 Warren, Lower Huron, Benson | | 3288-5047 | Completed 2004 |
| 4708508993 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.2094 | -80.9829 | 5164 | 1363 | 1362 | 6577.32502 | | | |

| Well ID | Prior Operator on Record | Operator-DEP* | Status | Latitude | Longitude | Vertical TD | Closest Distance from PUL96 Lateral Map View | PUL96 Horizontal TVD minus Offset | Hypotenuse Distance | Producing Formation | Gas Show/Pay Zone Depths | Notes |
|------------|--------------------------|------------------|--------|-----------|------------|-------------|--|-----------------------------------|---------------------|---|--------------------------|----------------|
| 4708509196 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.19707 | -80.9987 | 5108 | 1256 | 1088 | 6693.988348 | Warren, Greenhand Gap, Benson, Alexander | 3253-5108 | Completed 2006 |
| 4708509198 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.194145 | -80.992853 | 5234 | 82 | 1101 | 6685.921103 | Udey, Warren, Greenhand Gap, Benson, Alexander | 3374-5234 | Completed 2006 |
| 4708509199 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.193305 | -80.98568 | 5324 | 125 | 1104 | 6684.061639 | Mauch Chunk Grp, Udey, Greenhand Gap, Balltown, Riley, Bens | 1998-5324 | Completed 2006 |
| 4708509240 | STALNAKER ENERGY | STALNAKER ENERGY | GAS | 39.204885 | -80.99522 | 5259 | 155 | 1093 | 6690.883723 | Warren, Scherr Fm, Misc Sands | 6438-5259 | Completed 2006 |

* Most recent operator on DEP website

Received

MAR 10 2015

Office of Oil and Gas
WV Dept. of Environmental Protection



March 9, 2015

[Conventional Well Operator]
[address]
[state]

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.

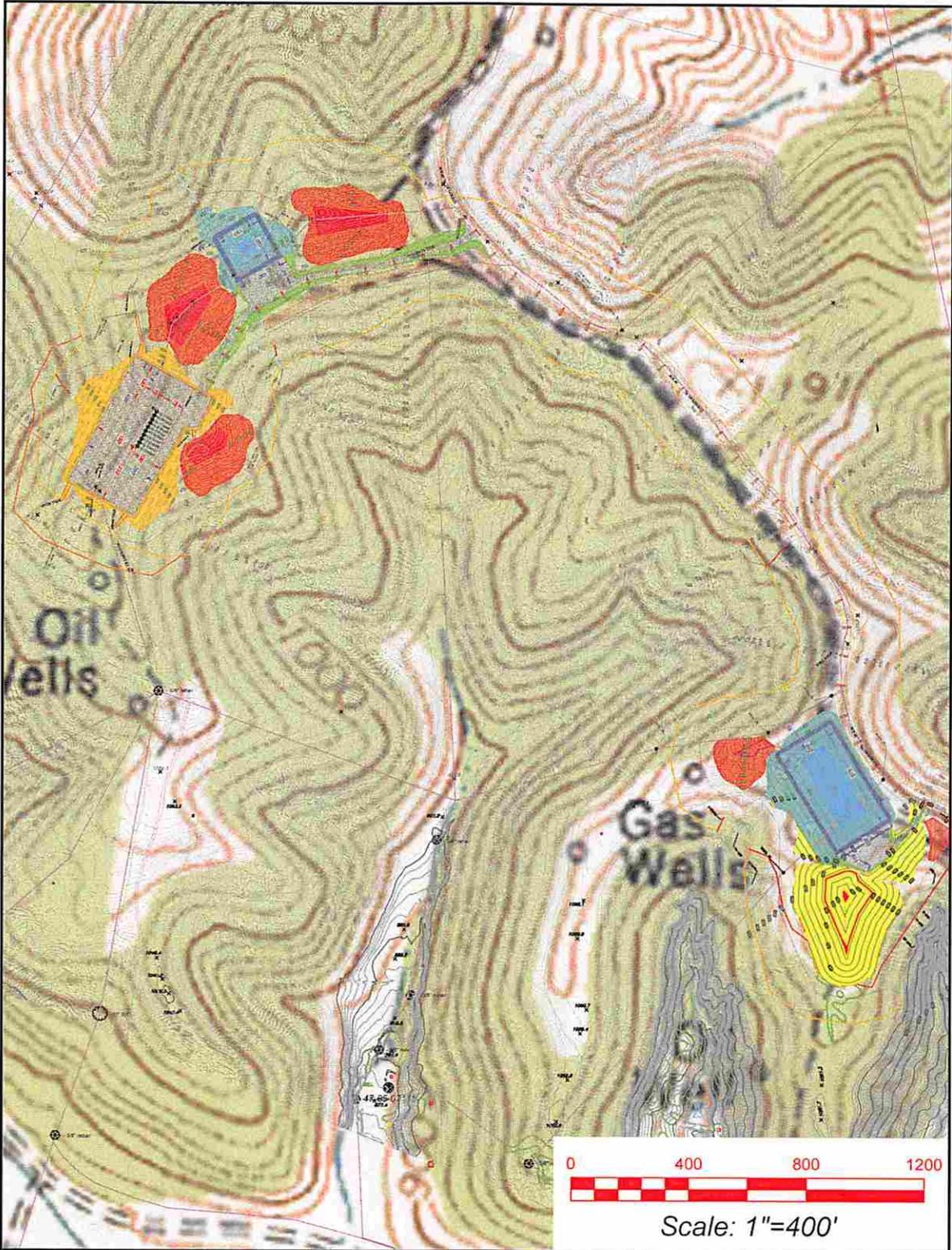
Sincerely,
EQT Production

John Centofanti
Corporate Director, Environmental Affairs

cc: James Martin, WV Office of Oil and Gas

Received

MAR 10 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.

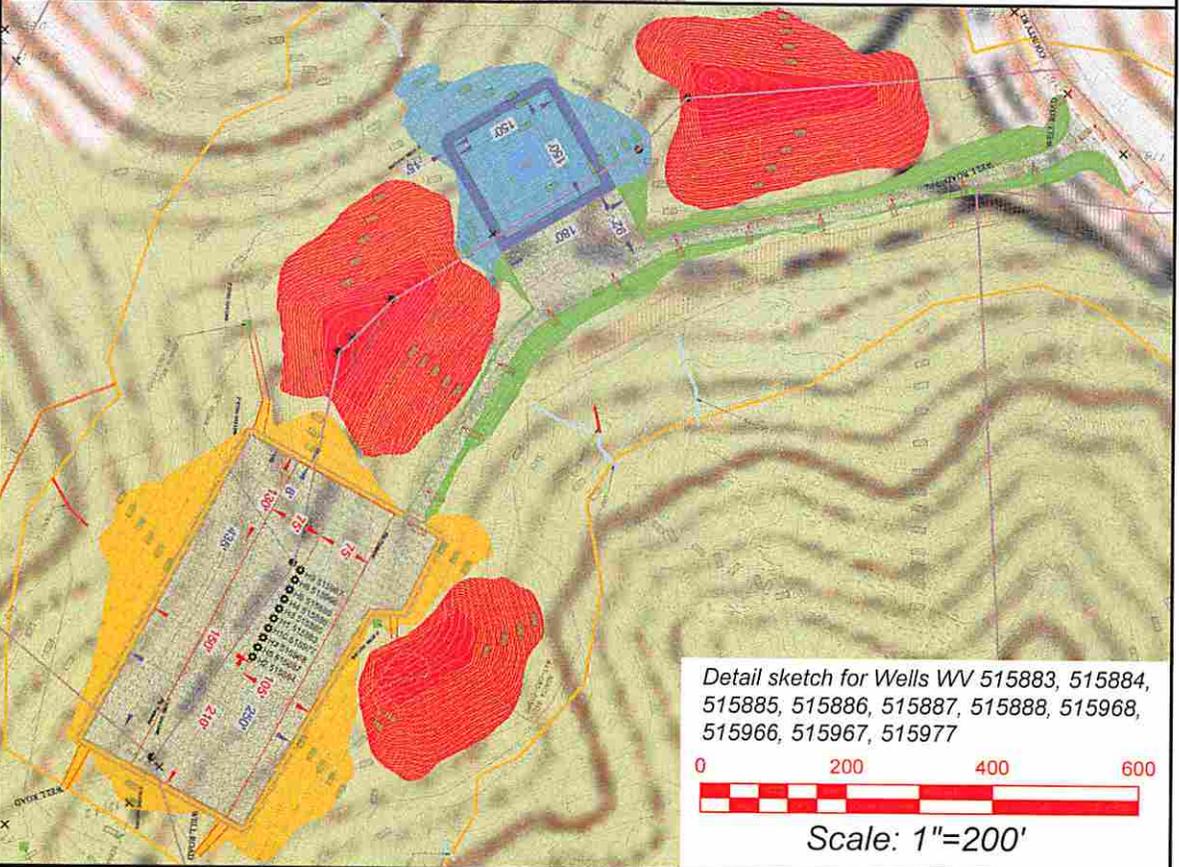
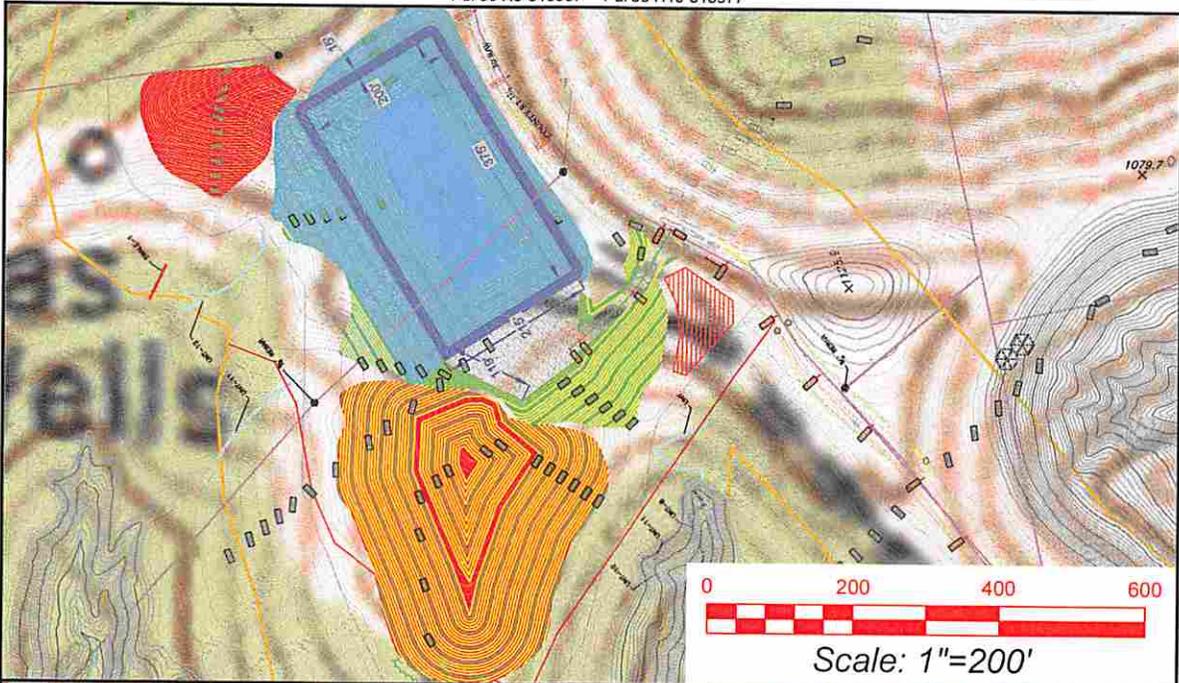
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FEB 25 2015



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

Office of Oil and Gas
 WV Dept. of Environmental Protection



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

| | | | |
|---|-------------------------------|---------------------------|----------------------------------|
| Pullman 7.5' USGS QUADRANGLE | | Proposed Disturbance Area | |
| Projected culvert inventory. (for bid purposes only) | Well Site Location | See Site Plan | See Site Plan |
| 15" minimum diameter culverts | Proposed Access Road | See Site Plan | See Site Plan |
| 24" minimum diameter culverts | Approximate Total Disturbance | See Site Plan | 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.

Received

FEB 25 2015

Office of Oil and Gas
WV Dept. of Environmental Protection



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

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

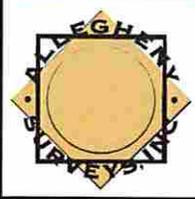
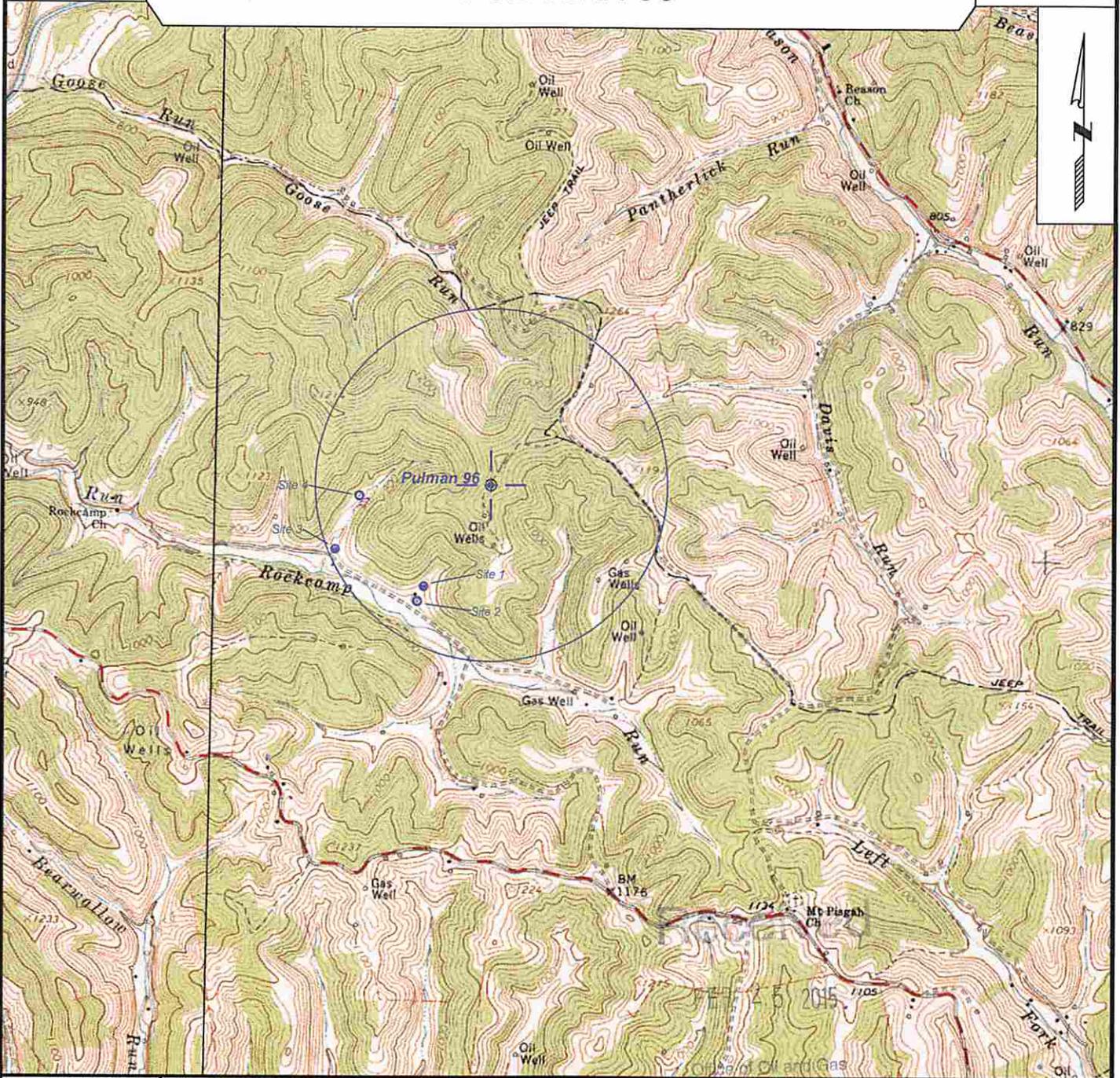
County: Ritchie

Date: December 12, 2014

District: Union

Project No: 243-38-U-14

PULLMAN 96



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
 P.O. Box 280
 Bridgeport, WV 26330

7891'

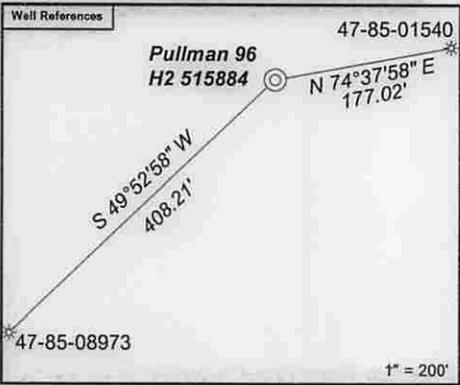
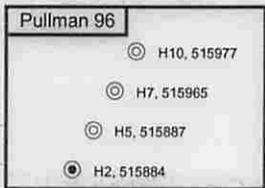
LATITUDE 39 - 15 - 00

LONGITUDE 80 - 57 - 30

14256'

WV 515884
EQT Production Company
Laurie Ann Haddox, et al
360 Acres

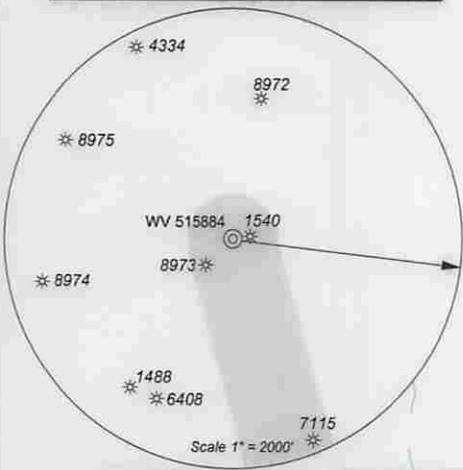
- ⊙ Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- 5 WV County Route
- 5 WV State Route



Notes:
 WV 515884 coordinates are
 NAD 27 N: 262,406.23 E: 1,578,892.82
 NAD 27 Lat: 39.210896 Long: -80.986193
 NAD 83 UTM N: 4,340,189.48 E: 501,206.52
 WV 515884 Landing Point coordinates are
 NAD 27 N: 262,323.61 E: 1,578,856.49
 NAD 27 Lat: 39.210668 Long: -80.986317
 NAD 83 UTM N: 4,340,164.13 E: 501,195.88
 WV 515884 Bottom Hole coordinates are
 NAD 27 N: 256,905.00 E: 1,580,333.86
 NAD 27 Lat: 39.195859 Long: -80.980789
 NAD 83 UTM N: 4,338,520.90 E: 501,673.52
 West Virginia Coordinate system of 1927 (North Zone).
 Geographic coordinates are NAD27.
 UTM coordinates are NAD83, Zone 17, Meters.
 Plat orientation, corner and well ties are based upon
 the grid north meridian.
 Well location references are based upon the grid north
 meridian.

GRID NORTH

1" = 200'



(⊙) Denotes Location of Well on United States Topographic Maps

| Lease No. | Acres | Owner |
|-----------|-------|--------------------|
| 919997 | 98 | Arnold K. Richards |



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.

Dwain S. Hall
P.S. 2089SU



SEAL

FILE NO: 243-14
 DRAWING NO: 243-14 Pullman 96 H2.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: June 06 20 15
 OPERATOR'S WELL NO. 515884
 API WELL NO
 47 - 85 - 10207
 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
 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:

| Lease Name or Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|----------------------|---|---|------------|-----------|
| <u>919995</u> | | | Min 1/8 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. | | LB189/52 |
| | Sheffield Exploration Co. | M. S. Oil Co. (69.513% of working interest) and Applied Mechanics Corp. (30.487% of working interest) | | LB208/268 |
| | M. S. Oil Co. (69.513%) | Applied Mechanics Corp. | | LB222/836 |
| | Applied Mechanics Corp., Gary C. Richards, Mary Jane Richards, Mary Lee Richards, Charles L. Stout & Marilyn J. Stout | FS Limited Partnership | | AB274/80 |
| | FS Limited Partnership | EQT Production Co. | | AB274/102 |
| <u>919997</u> | | | Min 1/8 Pd | |
| | Archie C. Richards, et al | J. E. Richards | | LB80/447 |
| | J. E. Richards | C. W. Richards (50%) | | LB136/24 |
| | C. W. Richards and J. E. Richards | Applied Mechanics Corp. | | LB206/8 |
| | Applied Mechanics Corp., Gary C. Richards, Mary Jane Richards, Mary Lee Richards, Charles L. Stout & Marilyn J. Stout | FS Limited Partnership | | AB274/80 |
| | FS Limited Partnership | EQT Production Co. | | AB274/102 |

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

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

Office of Oil and Gas
WV Dept. of Environmental Protection

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

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers

- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

Well Operator: EQT Production Company
By: 
Its: Permitting Supervisor

Received

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

Date of Notice Certification: FEB 23 2015

API No. 47 - 085 - 0
Operator's Well No. 515884
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>501,206.52</u> |
| County: <u>Ritchie</u> | UTM NAD 83 Northing: <u>4,340,189.48</u> |
| District: <u>Union</u> | Public Road Access: <u>12/3</u> |
| Quadrangle: <u>Pullman</u> | Generally used farm name: <u>James H & 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 checked="" type="checkbox"/> NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR</p> <p><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>OOG OFFICE USE ONLY</p> <p><input checked="" type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> |
|--|---|

Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

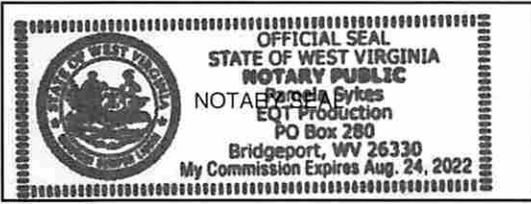
Required Attachments:
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement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

Certification of Notice is hereby given:

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

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

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



Subscribed and sworn before me this 11 day of Feb, 2015
Pamela Sykes Notary Public
My Commission Expires 8-24-22

Oil and Gas Privacy Notice:

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

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WW-6A
(9-13)

API NO. 47 - 085 - 0
OPERATOR WELL NO. 515884
Well Pad Name: PUL96

**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: FEB 23 2015 Date Permit Application Filed: FEB 23 2015

Notice of:

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

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

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

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

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

SURFACE OWNER(s)
Name: Wilma J Wilson
Address: 214 N Church St
Harrisville WV 26362
see attached

COAL OWNER OR LESSEE
Name: David R & Judy Wilson
Address: 42 School St
Harrisville WV 26362
0

Name: 0
Address: 0
0
0

See attached for additional coal owners.
 COAL OPERATOR
Name: 0
Address: 0
0
0

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

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

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: 0
Address: Office of Oil and Gas
WV Dept. of Environmental Protection

*Please attach additional forms if necessary

WW6-A

Additional Surface Owners:

James Douglas Wilson ✓
214 N Church St
Harrisville WV 26362

Robert Brian Wilson ✓
665 Nicolette Road
Parkersburg WV 26104

James Bradley Wilson ✓
665 Nicolette Road
Parkersburg WV 26104

Ian David Wilson ✓
1118 Rock Camp Rd
Harrisville, WV 26362

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

Jean W Moore ✓
1590 Rock Camp Road
Harrisville WV 26362

Additional Surface Owners: Access Road

James Douglas Wilson ✓
214 N Church St
Harrisville WV 26362

Robert Brian Wilson ✓
665 Nicolette Road
Parkersburg WV 26104

James Bradley Wilson ✓
665 Nicolette Road
Parkersburg WV 26104

Ian David Wilson ✓
1118 Rock Camp Rd
Harrisville, WV 26362

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

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Additional Surface Owners: Pits/Impoundments

James Douglas Wilson ✓
214 N Church St
Harrisville WV 26362

Robert Brian Wilson ✓
665 Nicolette Road
Parkersburg WV 26104

James Bradley Wilson ✓
665 Nicolette Road
Parkersburg WV 26104

Ian David Wilson ✓
1118 Rock Camp 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 Road
Harrisville WV 26362

Karen L Roche ✓
3131 Ellenboro Rd
Harrisville WV 26362

Laurie Ann Haddox ✓
1407 Pullman Road
Harrisville WV 26362

Linda D Hall ✓
406 South Spring St
Harrisville WV 26362

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Office of Oil and Gas
WV Dept. of Environmental Protection

Additional Coal Owners:

Oleta Jane Wilson ✓
665 Nicolette Rd
Parkersburg WV 26104

Oma Jean Wilson ✓
886 Cherry Road
Massillion OH 44647

Mary E Props ✓
579 Lambs Run
Harrisville WV 26362

Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

Received

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Office of Oil and Gas

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.

Received

FEB 25 2015

Notice is hereby given by:

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

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.

Victoria Roark

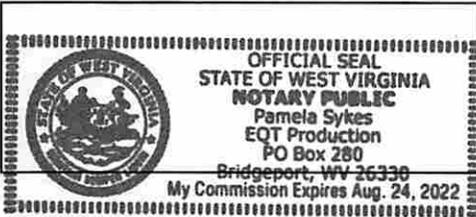
By: Victoria Roark

Its: Permitting Supervisor

Subscribed and sworn before on 11 day of Feb, 2015

Pamela Sykes Notary Public

My Commission Expires 8-24-22



Received

FEB 25 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

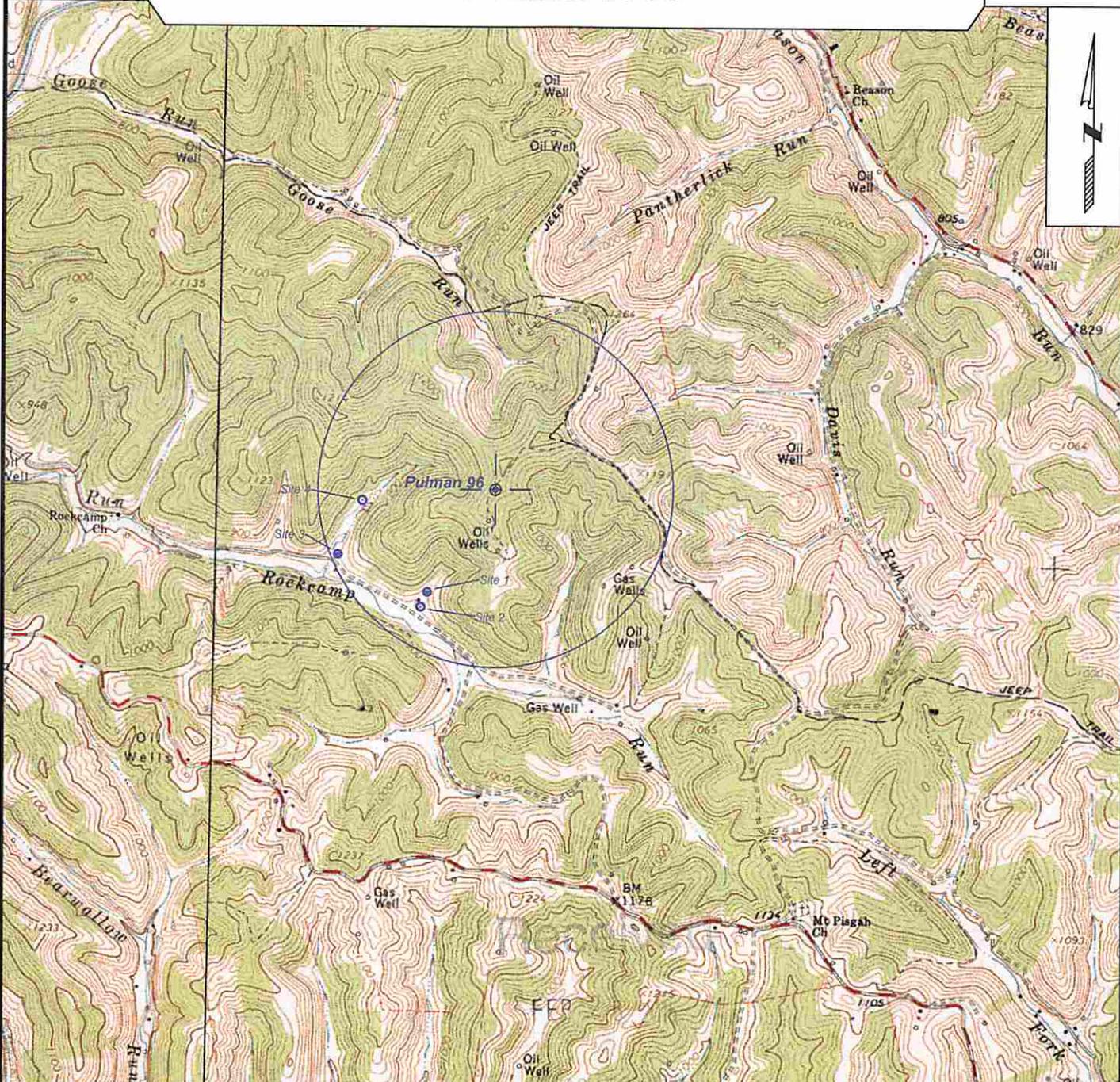
County: Ritchie

Date: December 12, 2014

District: Union

Project No: 243-38-U-14

PULLMAN 96



WV Dept. of Environmental
 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
 P.O. Box 280
 Bridgeport, WV 26330

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

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

Date of Notice: 6/9/2014

Date of Planned Entry: 6/17/2014

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

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

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

Notice is hereby provided to:

SURFACE OWNER(S)

MINERAL OWNER(S)

Name: Robert & Oleta Jane Wilson
Address: 665 Nicolette Rd.
Parkersburg, WV 26104-7218

Name: Robert & Oleta Jane Wilson
Address: 665 Nicolette Rd.
Parkersburg, WV 26104-7218

COAL OWNER(S) OR LESSEE(S)

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

*Please attach additional forms if necessary

Notice is hereby given:

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

| | |
|---|--|
| State: <u>West Virginia</u> | Approx. Latitude & Longitude: <u>39.20732 /-80.98551</u> |
| County: <u>Ritchie</u> | Public Road Access: <u>CR9</u> |
| Dist/Map/Par: <u>Union / Map 7 / Parcel 8.5</u> | Watershed: <u>Rock Camp Run</u> |
| Quadrangle: <u>Pullman</u> | Generally Used Farm Name: <u>Wilson</u> |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

FEB 25 2015

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0099
Facsimile: 304-848-0040
Email: eqtlandentrynotice@eqt.com

Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Kathy Kugel
Signature: *Kathy Kugel*

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

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Date of Planned Entry: 6/17/2014

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Notice is hereby provided to:

SURFACE OWNER(S)

MINERAL OWNER(S)

Name: James Douglas Wilson
Address: 214 Church St.
Harrisville, WV 26362-1246

Name: James Douglas Wilson
Address: 214 Church St.
Harrisville, WV 26362-1246

COAL OWNER(S) OR LESSEE(S)

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

*Please attach additional forms if necessary

Notice is hereby given:

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

| | |
|---|--|
| State: <u>West Virginia</u> | Approx. Latitude & Longitude: <u>39.21296 /-80.98703</u> |
| County: <u>Ritchie</u> | Public Road Access: <u>CR 12/3</u> |
| Dist/Map/Par: <u>Union / Map 7 / Parcel 4</u> | Watershed: <u>Rock Camp Run</u> |
| Quadrangle: <u>Pullman</u> | Generally Used Farm Name: <u>Wilson</u> |

Copies of the state Erosion and Sediment Control Manual and the statues and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Received

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0099
Facsimile: 304-848-0040
Email: eqtlandentrynotice@eqt.com

FEB 25 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Kathy Kugel

Signature: *Kathy Kugel*

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

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

Date of Notice: _____ **Date of Planned Entry:** _____

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Notice is hereby provided to:

SURFACE OWNER(S)

MINERAL OWNER(S)

Name: James Bradley Wilson
Address: 665 Nicolette Rd.
Parkersburg, WV 26104-7218

Name: James Bradley Wilson
Address: 665 Nicolette Rd.
Parkersburg, WV 26104-7218

COAL OWNER(S) OR LESSEE(S)

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

*Please attach additional forms if necessary

Notice is hereby given:

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| County: <u>Ritchie</u> | Public Road Access: <u>CR 12/3</u> |
| Dist/Map/Par: <u>Union / Map 7 / Parcel 4</u> | Watershed: <u>Rock Camp Run</u> |
| Quadrangle: <u>Pullman</u> | Generally Used Farm Name: <u>Wilson</u> |

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Notice is hereby given by:

Well Operator: EQT Production Company Address: 115 Professional Place, Bridgeport, WV 26330
 Telephone: 304-848-0099 **FEB 25 2011** EQT Representative: Kathy Kugel
 Facsimile: 304-848-0040
 Email: eqtlandentrynotice@eqt.com Signature: *Kathy Kugel*

Received
Office of Oil and Gas
WV Dept. of Environmental Protection

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

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

Date of Notice: 6/9/2014

Date of Planned Entry: 6/17/2014

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

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

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Notice is hereby provided to:

SURFACE OWNER(S)
James Douglas Wilson (Parcels 7.1,7.2,7.3)
Name: James H. & Wilma J. Wilson (Parcel 8.4)
Address: 214 S. Church St.
Harrisville, WV 26362-1246

MINERAL OWNER(S)
James Douglas Wilson
Name: James H. & Wilma J. Wilson
Address: 214 S. Church St.
Harrisville, WV 26362-1246

COAL OWNER(S) OR LESSEE(S)
Coal Declaration pursuant to §22-6A-10 and
§22-6-36 Not of Record

*Please attach additional forms if necessary

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| | |
|---|---|
| State: <u>West Virginia</u> | Approx. Latitude & Longitude: <u>39.21230 /-80.97746</u> <u>39.20941 /-80.97617</u> |
| County: <u>Ritchie/Map 7/Parcels 7.1, 7.2, 7.3, 8.4</u> | Approx. Latitude & Longitude: <u>39.20522 /-80.97746</u> <u>39.21303 /-80.98716</u> |
| Dist/Map/Par: <u>Union / Map</u> | Public Road Access: <u>CR9</u> |
| Quadrangle: <u>Pullman</u> | Watershed: <u>Rock Camp Run</u> |
| | Generally Used Farm Name: <u>Wilson</u> |

Copies of the state Erosion and Sediment Control Manual and the statues and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0099
Facsimile: 304-848-0040
Email: eqtlandentrynotice@eqt.com

Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Kathy Kugel

Signature: *Kathy Kugel*

Received
FEB 25 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

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Notice is hereby provided to:

SURFACE OWNER(S)

MINERAL OWNER(S)

Name: Ian David Wilson
Address: RR 1 Box 24A
Harrisville, WV 26362-9707

Name: _____
Address: _____

COAL OWNER(S) OR LESSEE(S)

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§22-6-36 Not of Record

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| Dist/Map/Par: <u>Union / Map 7 / Parcel 8.2</u> | Watershed: <u>Rock Camp Run</u> |
| Quadrangle: <u>Pullman</u> | Generally Used Farm Name: <u>Wilson</u> |

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Received

Notice is hereby given by:

| | |
|--|--|
| Well Operator: <u>EQT Production Company</u> | Address: <u>115 Professional Place, Bridgeport, WV 26330</u> |
| Telephone: <u>304-848-0099</u> | EQT Representative: <u>Kathy Kugel</u> |
| Facsimile: <u>304-848-0040</u> | |
| Email: <u>eqtlandentrynotice@eqt.com</u> | Signature: <u><i>Kathy Kugel</i></u> |

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Notice is hereby provided to:

SURFACE OWNER(S)

MINERAL OWNER(S)

Name: Robert Brian Wilson
Address: 665 Nicolette Rd.
Parkersburg, WV 26104-7218

Name: Robert Brian Wilson
Address: 665 Nicolette Rd.
Parkersburg, WV 26104-7218

COAL OWNER(S) OR LESSEE(S)

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| Dist/Map/Par: <u>Union / Map 7 / Parcel 4</u> | Watershed: <u>Rock Camp Run</u> |
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EQT Representative: Kathy Kugel

Signature: *Kathy Kugel*

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FEB 25 2015

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

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

Notice is hereby provided to:

SURFACE OWNER(S)

MINERAL OWNER(S)

Name: _____

Name: Mary Nelle Kissenger

Address: _____

Address: 102 Hickory Hills Place, #4
Charleston, WV 25314-1861

COAL OWNER(S) OR LESSEE(S)

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

*Please attach additional forms if necessary

Notice is hereby given:

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

State: West Virginia
County: Ritchie
Dist/Map/Par: Union / Map11 / Parcel 8
Quadrangle: Pullman

Approx. Latitude & Longitude: 39.19743 / -80.99677
Public Road Access: CR9
Watershed: Rock Camp Run
Generally Used Farm Name: Sheets

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Received

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0099
Facsimile: 304-848-0040
Email: eqtlandentrynotice@eqt.com

FEB 25 2015

Address: 115 Professional Place, Bridgeport, WV 26330

EQT Representative: Kathy Kugel

Office of Oil and Gas
WV Department of Environmental Protection

Signature: *Kathy Kugel*

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 6/9/2014

Date of Planned Entry: 6/17/2014

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

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

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Notice is hereby provided to:

SURFACE OWNER(S)

MINERAL OWNER(S)

Name: _____

Name: Kiedaisch & Summers Enterprises

Address: _____

Address: PO Box 254
Harrisville, WV 26362-0254

COAL OWNER(S) OR LESSEE(S)

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

*Please attach additional forms if necessary

Notice is hereby given:

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County: Ritchie
Dist/Map/Par: Union / Map11 / Parcel 8
Quadrangle: Pullman

Approx. Latitude & Longitude: 39.19743 / -80.99677
Public Road Access: CR9
Watershed: Rock Camp Run
Generally Used Farm Name: Sheets

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Received

Notice is hereby given by:

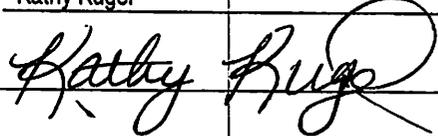
Well Operator: EQT Production Company
Telephone: 304-848-0099
Facsimile: 304-848-0040
Email: eqtlandentrynotice@eqt.com

FEB 25 2015

Address: 115 Professional Place, Bridgeport, WV 26330

EQT Representative: Kathy Kugel

Office of Oil and Gas
Department of Environmental Protection
WV Dept. of Environmental Protection

Signature: 

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DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry.

Date of Notice: 6/9/2014

Date of Planned Entry: 6/17/2014

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Notice is hereby provided to:

SURFACE OWNER(S)

MINERAL OWNER(S)

Name: _____

Name: Billy D. & Carimeilina M. Mott

Address: _____

Address: 12750 Pleasant Grove Rd.
Floral City, FL 34436-2425

COAL OWNER(S) OR LESSEE(S)

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

*Please attach additional forms if necessary

Notice is hereby given:

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

State: West Virginia
County: Ritchie
Dist/Map/Par: Union / Map11 / Parcel 8
Quadrangle: Pullman

Approx. Latitude & Longitude: 39.19743 / -80.99677
Public Road Access: CR9
Watershed: Rock Camp Run
Generally Used Farm Name: Sheets

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company

Address: 115 Professional Place, Bridgeport, WV 26330

Telephone: 304-848-0099

Received
FEB 25 2015

EQT Representative: Kathy Kugel

Facsimile: 304-848-0040

Email: eqtlandentrynotice@eqt.com

Department of Oil and Gas
WV Department of Environmental Protection

Signature: Kathy Kugel

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WW-6A5
(1/12)

Operator Well No. 515884

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.

FEB 23 2015

Date of Notice: FEB 23 2015 Date Permit Application Filed: _____

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

CERTIFIED MAIL
RETURN RECEIPT REQUESTED HAND
DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: 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: 501,206.520000
County: Ritchie Northing: 4,340,189.480000
District: Union Public Road Access: 12/3
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.

Received

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

FEB 25 2015

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Office of Oil and Gas
Department of Environmental Protection

WW-6A5
(1/12)

Operator Well No. 515884

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 FEB 23 2015
Date of Notice: FEB 23 2015 Date Permit Application Filed: _____

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: _____ 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: _____ 501,206.520000
County: _____ Ritchie Northing: _____ 4,340,189.480000
District: _____ Union Public Road Access: _____ 12/3
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.

Well Operator: EQT Production Company FEB 25 2015 Address: 115 Professional Place, P.O. Box 280
Telephone: 304-848-0082 Bridgeport, WV 26330
Email: vroark@eqt.com Facsimile: 304-848-0040

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WW-6A5
(1/12)

Operator Well No. 515884

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: FEB 23 2015 Date Permit Application Filed: FEB 23 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: Ian David Wilson
Address: 1118 Rock Camp 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:

State: WV UTM NAD 83 Easting: 501,206.520000
County: Ritchie Northing: 4,340,189.480000
District: Union Public Road Access: 12/3
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.

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

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WW-6A5
(1/12)

Operator Well No. 515884

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: FEB 23 2015 Date Permit Application Filed: FEB 23 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: Jean W Moore
Address: 1590 Rock Camp Rd
Harrisville, WV 26362

Name: _____
Address: _____

Notice is hereby given:

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State: WV UTM NAD 83 Easting: 501,206.520000
County: Ritchie Northing: 4,340,189.480000
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Quadrangle: Pullman Generally used farm name: James H & Wilma J Wilson
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Telephone: 304-848-0082 Bridgeport, WV 26330
Email: vroark@eqt.com Facsimile: 304-848-0040

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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 57th 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.

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

FEB 25 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Anticipated Frac Additives
Chemical Names and CAS numbers

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

Received

FEB 25 2015



Office of Oil and Gas

West Virginia Department of
Environmental Protection
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

| DEP Office Use only | |
|-----------------------------|---------------------|
| Date Received by Oil & Gas: | <u>KK</u> |
| Assigned Impoundment ID #: | <u>085-WPA-0002</u> |

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

Section 1 – Operator Information

| | | | |
|---|---|-------------------|--|
| Operator Name: <u>EQT Production Company</u> | | | |
| Operator ID: <u>306686</u> | | | |
| Address: Street <u>115 Professional Place</u> | | | |
| City: <u>Bridgeport</u> | State: <u>WV</u> | Zip: <u>26330</u> | |
| Contact Name: <u>Ron Furby</u> | Contact Title: <u>Sr. Mgr. Water Operations</u> | | |
| Contact Phone: <u>412-395-7052</u> | Contact Email: <u>rfurby@eqt.com</u> | | |

Section 2 – Engineering / Design Contractor Information

| | | | |
|--|---------------------------------------|-------------------|--|
| Design will be contracted <input checked="" type="checkbox"/> Designed in-house <input type="checkbox"/> | | | |
| Company Name: <u>Honor Brothers Engineers</u> | | | |
| Address: Street <u>P.O. Box 386</u> | | | |
| City: <u>Clarksburg</u> | State: <u>WV</u> | Zip: <u>26302</u> | |
| Contact Name: <u>Thomas D. Corathers</u> | Contact Title: <u>PE, PS</u> | | |
| Contact Phone: <u>304-624-6445</u> | Contact Email: <u>tom@hbe1902.com</u> | | |
| Certifying Professional Engineer: <u>Thomas D. Corathers</u> | | | |
| Professional Engineer Registration Number: <u>14161</u> | | | |



Office of Oil and Gas

Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below:

 Freshwater Impoundment Waste PitNote: Any waste in a pit will make it a waste pit.Name of Structure (Company Name :) EQT-PUL 96 Completion PitCounty: RitchieDistrict: Clay and UnionUSGS 7.5' Quad Map Name: PULLMAN

Farm Name: _____

Pad Name: PUL 96Surface Owner Name: David R. & Judy Wilson and Ian David WilsonPhysical Description of Location: From Pullman, WV, travel northwest on County Rte 9 for 1.55 mi. turn onto Co. Rte 7/4 travel North 0.7 mi. continue North on Co. Rte 12/3 for 0.47 mi. turn SW onto pit access, travel 200' to pit on right.

(Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, left on Buffalo Creek)

Watershed (nearest perennial): Rockcamp RunDistance (Drainage Distance) to nearest perennial stream: approximately 2,200 feet

Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))

Latitude: 39.207947Longitude (Use negative sign): -80.977597

UTM Coordinates :

1646762.642694

E

14238335.581054

N

Access Road Coordinates (junction of state highway access)

Latitude: 39.207807Longitude (Use negative sign): -80.976484

UTM Coordinates :

1647077.957015

E

14238284.650900

N

Approximate Dimensions

Length: 375'Width: 200'Height: 17'

Note: If irregularly shaped, give approximate dimensions of long axis.

Total Capacity -- Provide all units of measure below:

Barrels: 123,344Gallons: 5,180,819Acre-Feet: 15.889

Capacity with 2' Freeboard -- Provide all units of measure below:

Barrels: 148,855Gallons: 6,252,354Acre-Feet: 19.188

Incised volume:

Barrels: 43,826Gallons: 1,840,808Acre-Feet: 5.649

Net impounded volume: (Total volume less incised volume.)

Barrels: 79,518Gallons: 3,340,011Acre-Feet: 10.25

Anticipated Construction Start Date (estimation, non-binding): _____

Note: No construction may begin on Associated impoundment until WVDEP issues the drilling permit. At least 7 calendar days prior to confirmed construction start date, notify the Office of Oil & Gas, and the local Oil and Gas inspector of construction start date. Use form IMP-2, "Notification of Impoundment / Pit Construction."



Office of Oil and Gas

Section 4 - Associated Well Numbers and API Numbers. List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

| Well Number(s): | API Number(s) – If issued: |
|---------------------------------------|----------------------------|
| PUL 06 H1 515883 PUL 06 H2 515884 | |
| PUL 06 H3 515885 PUL 06 H4 515886 | |
| PUL 06 H5 515887 PUL 06 H6 515888 | |
| PUL 06 H7 515889 PUL 06 H8 515890 | |
| PUL 06 H9 515897 PUL 06 H10 515977 | |
| | |
| | |

Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

- Engineered Construction Plans, certified by WV Registered P.E.
- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- Reclamation Plan, certified by WV Registered P.E.

Section 6 – Dam Standard Qualifying Evaluation

- The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas. The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: <http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx>

Section 7 –Comments – Provide any additional comments concerning this project



Office of Oil and Gas

Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

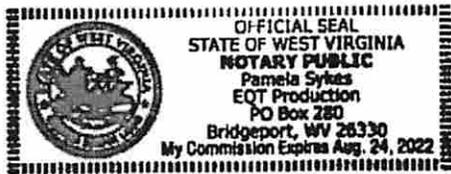
Name: Victoria J Rank
Title: Permitting Supervisor
Signature: [Handwritten Signature]

Taken, subscribed and sworn to before me this, 11 Day of Feb 20 15

Notary Public: [Handwritten Signature]

My commission expires: 8-24-22

Notary Seal:



Section 9. Submittal Instructions

Submit original paper copy of application to:
West Virginia Department of Environmental Protection
Office of Oil and Gas
Impoundment Registration
601 57th Street, SE
Charleston WV 25304

Email PDF file format of this application and all related engineering Plans to :
Depimpoundments@wv.gov



Office of Oil and Gas

West Virginia Department of
Environmental Protection
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

| | |
|-----------------------------|----------------------|
| DEP Office Use only | |
| Date Received by Oil & Gas: | <u>RK</u> |
| Assigned Impoundment ID #: | <u>085-WPA-00022</u> |

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

Section 1 – Operator Information

| | | | |
|---|---|-------------------|--|
| Operator Name: <u>EQT Production Company</u> | | | |
| Operator ID: <u>308886</u> | | | |
| Address: Street <u>115 Professional Place</u> | | | |
| City: <u>Bridgeport</u> | State: <u>WV</u> | Zip: <u>26330</u> | |
| Contact Name: <u>Ron Furby</u> | Contact Title: <u>Sr. Mgr. Water Operations</u> | | |
| Contact Phone: <u>412-395-7052</u> | Contact Email: <u>rfurby@eqt.com</u> | | |

Section 2 – Engineering / Design Contractor Information

| | | | |
|--|---------------------------------------|-------------------|--|
| Design will be contracted <input checked="" type="checkbox"/> Designed in-house <input type="checkbox"/> | | | |
| Company Name: <u>Honor Brothers Engineers</u> | | | |
| Address: Street <u>P.O. Box 386</u> | | | |
| City: <u>Clarksburg</u> | State: <u>WV</u> | Zip: <u>26302</u> | |
| Contact Name: <u>Thomas D. Corathers</u> | Contact Title: <u>PE, PS</u> | | |
| Contact Phone: <u>304-624-6445</u> | Contact Email: <u>tom@hbe1902.com</u> | | |
| Certifying Professional Engineer: <u>Thomas D. Corathers</u> | | | |
| Professional Engineer Registration Number: <u>14161</u> | | | |



Office of Oil and Gas

Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below.

Freshwater Impoundment

Waste Pit

Note: Any waste in a pit will make it a waste pit.

Name of Structure (Company Name :) EQT-PUL 96 Flowback Pit

County: Ritchie District: Clay and Union

USGS 7.5' Quad Map Name: PULLMAN

Farm Name: _____

Pad Name: PUL 96

Surface Owner Name: James H. & Wilma J. Wilson and James Douglas Wilson

Physical Description of Location: From Pullman, WV, travel northwest on County Rte 9 for 1.55 mi. turn onto Co. Rte 7/4 travel North 0.7 mi. continue North on Co. Rte 12/3 for 0.95 mi. turn SW onto pit access, travel 700' to pit on right.

(Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, left on Buffalo Creek)

Watershed (nearest perennial): Goose Run

Distance (Drainage Distance) to nearest perennial stream: approximately 1400 feet

Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))

Latitude: 39.212855 Longitude (Use negative sign): -80.984758

UTM Coordinates : 1644733.691657 E 14240121.883713 N

Access Road Coordinates (junction of state highway access)

Latitude: 39.213031 Longitude (Use negative sign): -80.982046

UTM Coordinates : 1645502.686969 E 14240186.967354 N

Approximate Dimensions

Length: 150' Width: 150' Height: 17'

Note: If irregularly shaped, give approximate dimensions of long axis.

Total Capacity – Provide all units of measure below:

Barrels: 24,969 Gallons: 1,048,780 Acre-Feet: 3.219

Capacity with 2' Freeboard – Provide all units of measure below:

Barrels: 32,368 Gallons: 1,359,550 Acre-Feet: 4.172

Incised volume:

Barrels: 13,608 Gallons: 571,585 Acre-Feet: 1.754

Net impounded volume: (Total volume less incised volume.)

Barrels: 11,088 Gallons: 477,195 Acre-Feet: 1.465

Anticipated Construction Start Date (estimation, non-binding): _____

Note: No construction may begin on Associated impoundment until WVDEP issues the drilling permit. At least 7 calendar days prior to confirmed construction start date, notify the Office of Oil & Gas, and the local Oil and Gas inspector of construction start date. Use form IMP-2, "Notification of Impoundment / Pit Construction."



Office of Oil and Gas

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| PUL 06 H3 515885 PUL 06 H4 515886 | |
| PUL 06 H5 515887 PUL 06 H6 515888 | |
| PUL 06 H7 515889 PUL 06 H8 515890 | |
| PUL 06 H9 515891 PUL 06 H10 515892 | |
| | |
| | |

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- The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas. The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: <http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx>

Section 7 –Comments – Provide any additional comments concerning this project



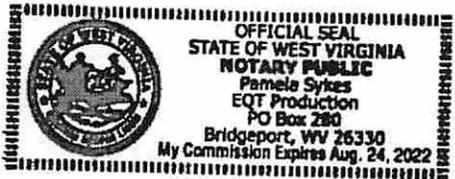
Office of Oil and Gas

Section 8 - Application Certification

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Name: Victoria J Roark
Title: Permitting Supervisor
Signature: [Handwritten Signature]

Taken, subscribed and sworn to before me this, 11 Day of Feb 20 15
Notary Public: [Handwritten Signature]
My commission expires: 8-24-22
Notary Seal:



Section 9. Submittal Instructions

Submit original paper copy of application to:
West Virginia Department of Environmental Protection
Office of Oil and Gas
Impoundment Registration
601 57th Street, SE
Charleston WV 25304

Email PDF file format of this application and all related engineering Plans to :
Depimpoundments@wv.gov