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**west virginia** department of environmental protection

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

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

July 23, 2015

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-9502257, 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: 514460  
Farm Name: WELLS, VIVIAN J.  
**API Well Number: 47-9502257**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 07/23/2015

**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

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

4709502257

API NO. 47 - 095 - 62257  
OPERATOR WELL NO. 514460  
Well Pad Name: SHR60

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

1) Well Operator: EQT Production Company  
Operator ID 306686 County 095 District 5 Quadrangle 607

2) Operator's Well Number: 514460 Well Pad Name SHR60

3) Farm Name/Surface Owner : Vivian J Wells et al Public Road Access: 60/2

4) Elevation, current ground: 1,018.0 Elevation, proposed post-construction: 1,011.0

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

Other \_\_\_\_\_

(b) If Gas: Shallow  Deep

Horizontal

*Michael Hoff*  
*7/14/15*

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 6634 with the anticipated thickness to be 52 feet and anticipated target pressure of 2747 PSI  
Top of Marcellus at 6612'

8) Proposed Total Vertical Depth: 6764

9) Formation at Total Vertical Depth: Onondaga

10) Proposed Total Measured Depth: 12,687

11) Proposed Horizontal Leg Length 5,678

12) Approximate Fresh Water Strata Depths: 83, 133, 570, 906

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

14) Approximate Saltwater Depths: 1198, 1865

15) Approximate Coal Seam Depths: 19, 420, 686, 875, 1315

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: \_\_\_\_\_

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WW - 6B  
(4/15)

OPERATOR WELL NO. 51460  
Well Pad Name: SHR60

**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	60	60	58 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	992	992	862 C.T.S.
Coal	-	-	-	-	-	-	-
Intermediate	9 5/8	New	A-500	40	2,777	2,777	1,907 C.T.S.
Production	5 1/2	New	P-110	20	12,687	12,687	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							

MDC  
7/17/15

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	2184	* See Note 2	1.21
Coal							
Intermediate	9 5/8	12 3/8	0.395	3,590	3160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10112	-	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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Page 2 of 3

MDC  
7/14/13

(3/13)

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 6764', lag the Onondaga not more than 100', run logs then plug back with a solid cement plug to approximately 5426' 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 pressures 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): 31.93

22) Area to be disturbed for well pad only, less access road (acres): 5.39

23) Describe centralizer placement for each casing string.

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

24) Describe all cement additives associated with each cement type. Surface (Type 1 Cement): 0-3% Calcium Chloride  
Used to speed the setting of cement slurries.

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

Production:

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

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

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

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

60 % Calcium Carbonate. Acid solubility.

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

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

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

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

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

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

\*Note: Attach additional sheets as needed.

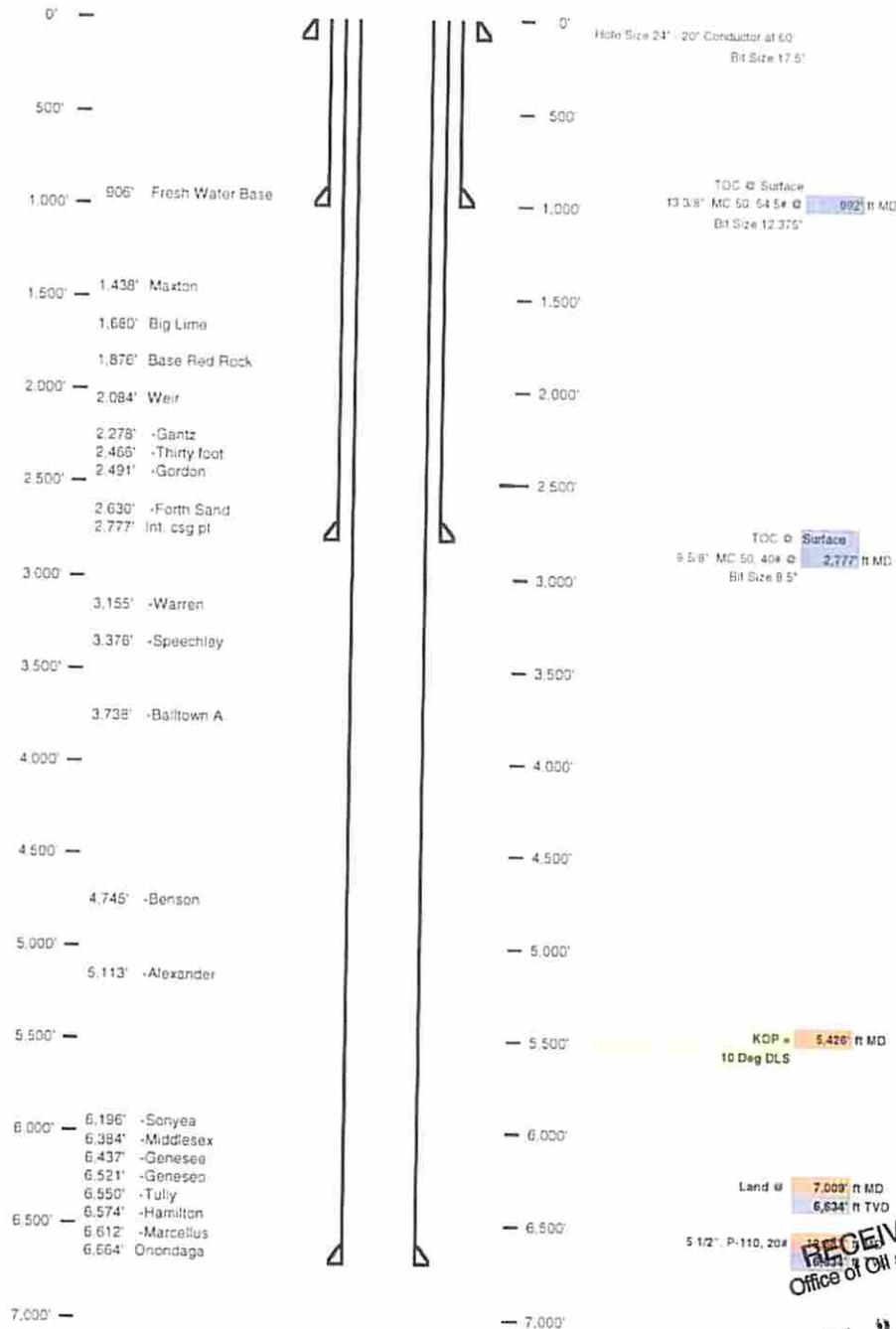
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WW Department of  
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4709502257

Well Schematic  
EQT Production

Well Name: 514460 (SHR60H1)  
County: Tyler  
State: West Virginia

Elevation KB: 1024  
Target: Marcellus  
Prospect: 157  
Azimuth: 6057  
Vertical Section:



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7/17/15

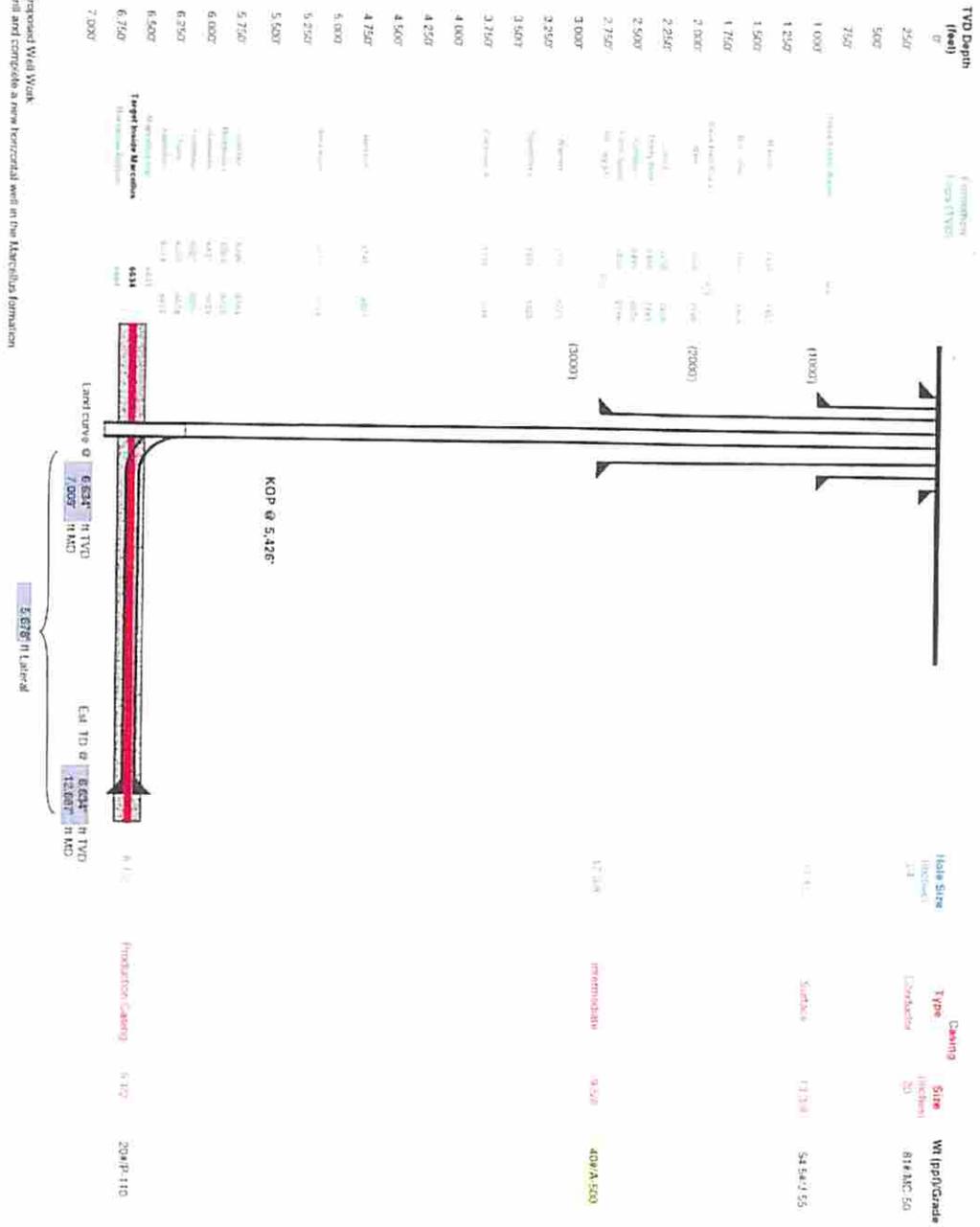
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Well 514460 (SHR60H1)  
 EOT Production  
 Shirley  
 Tyler

Assault 131  
 Vertical Section 457'



Proposed Well Work  
 Drill and complete a new horizontal well in the Marcellus formation

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west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0462 fax

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson  
Environmental Resources Specialist / Permitting

4709502281

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west virginia department of environmental protection

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

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

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

**IN THE MATTER OF A VARIANCE FROM ) ORDER NO. 2014 - 17**  
**REGULATION 35 CSR § 4-11.4/11.5/14.1 )**  
**AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE )**  
**THE OPERATIONAL )**  
**REGULATIONS OF CEMENTING OIL )**  
**AND GAS WELLS )**

**REPORT OF THE OFFICE**

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

**FINDINGS OF FACT**

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
  - 2% Calcium Chloride (Accelerator)
  - 0.25 % Super Flake (Lost Circulation)
  - 94% Type "1" Cement
  - 5.20 % Water
- 2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

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**CONCLUSIONS OF LAW**

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

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

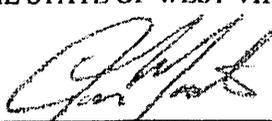
**ORDER**

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



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James Martin, Chief  
Office of Oil and Gas

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WW-9  
(2/15)

Page 1 of 2  
API No. 47 - 095 - 02257  
Operator's Well No. 514460

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) Morrison Run of McElroy Creek Quadrangle Shirley

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

Will a pit be used? Yes: X No:     

If so please describe anticipated pit waste: flowback water & residual solids

Will a synthetic liner be used in the pit? Yes X No      If so, what ml.? 60

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

Additives to be used in drilling medium? Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud - Barite, viscosifer,

alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.

Oil based mud -synthetic base oil, barite, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates,

biodegradable oil lubricant, defoaming, carbonates.

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

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

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

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

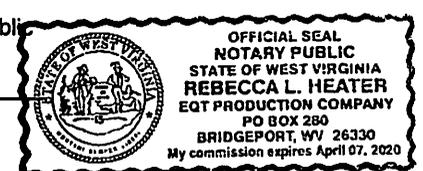
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is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

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

Subscribed and sworn before me this 22 day of July, 20 15

Rebecca L. Heater Notary Public

My commission expires 4-7-20



Form WW-9

Operator's Well No. 514460

Proposed Revegetation Treatment: Acres Disturbed no additional disturbance Prevegetation pH 6.3

Lime 3 Tons/acre or to correct to pH 6.5

Fertilize type Granular 10-20-20

Fertilizer Amount 13 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Hoff

Comments: Preseed & Mulch any disturbed areas per WV DEP regulations. Maintain & upgrade S-ns as necessary.

Title: Oil & Gas Inspector Date: 5/7/2015

Field Reviewed? (  ) Yes (  ) No

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MAY 18 2015

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**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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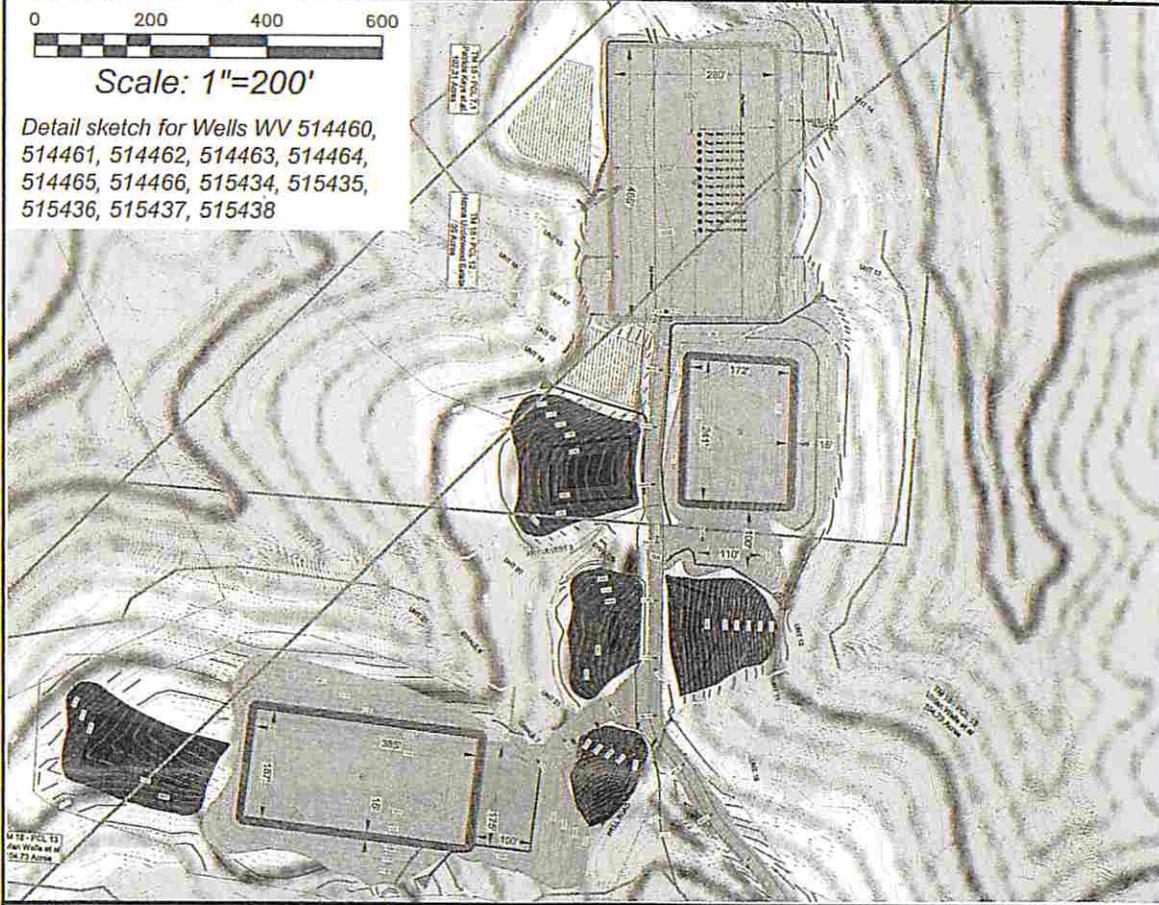
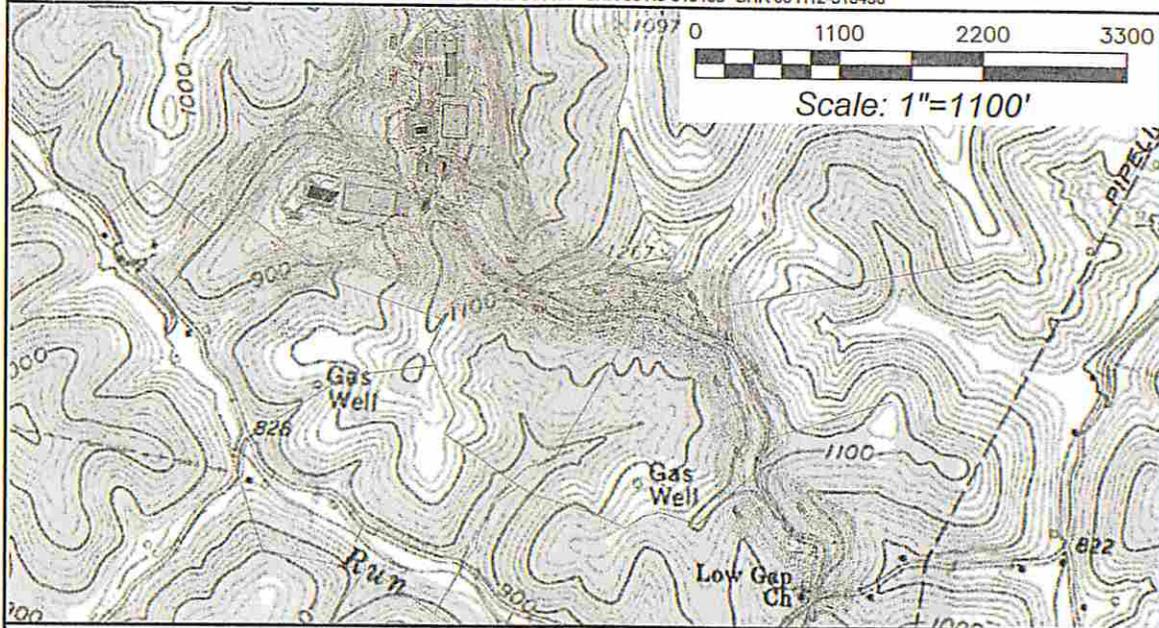
APR 27 2015

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Environmental Protection

WW-9

SHR 60 H1-514460 SHR 60 H4-514463 SHR 60 H7-514466 SHR 60 H10-515436  
SHR 60 H2-514461 SHR 60 H5-514464 SHR 60 H8-515434 SHR 60 H11-515437  
SHR 60 H3-514462 SHR 60 H6-514465 SHR 60 H9-515435 SHR 60 H12-515438

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PAGE 1 OF 1



MAG  
5/7/2015

Shirley 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: October 24, 2014	FILE NO: 208-13	DRAWING FILE NO: ACAD-208-13-Rec Plan

Note: SEE SITE PLAN OF SHR 60 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC.

MAY 18 2015

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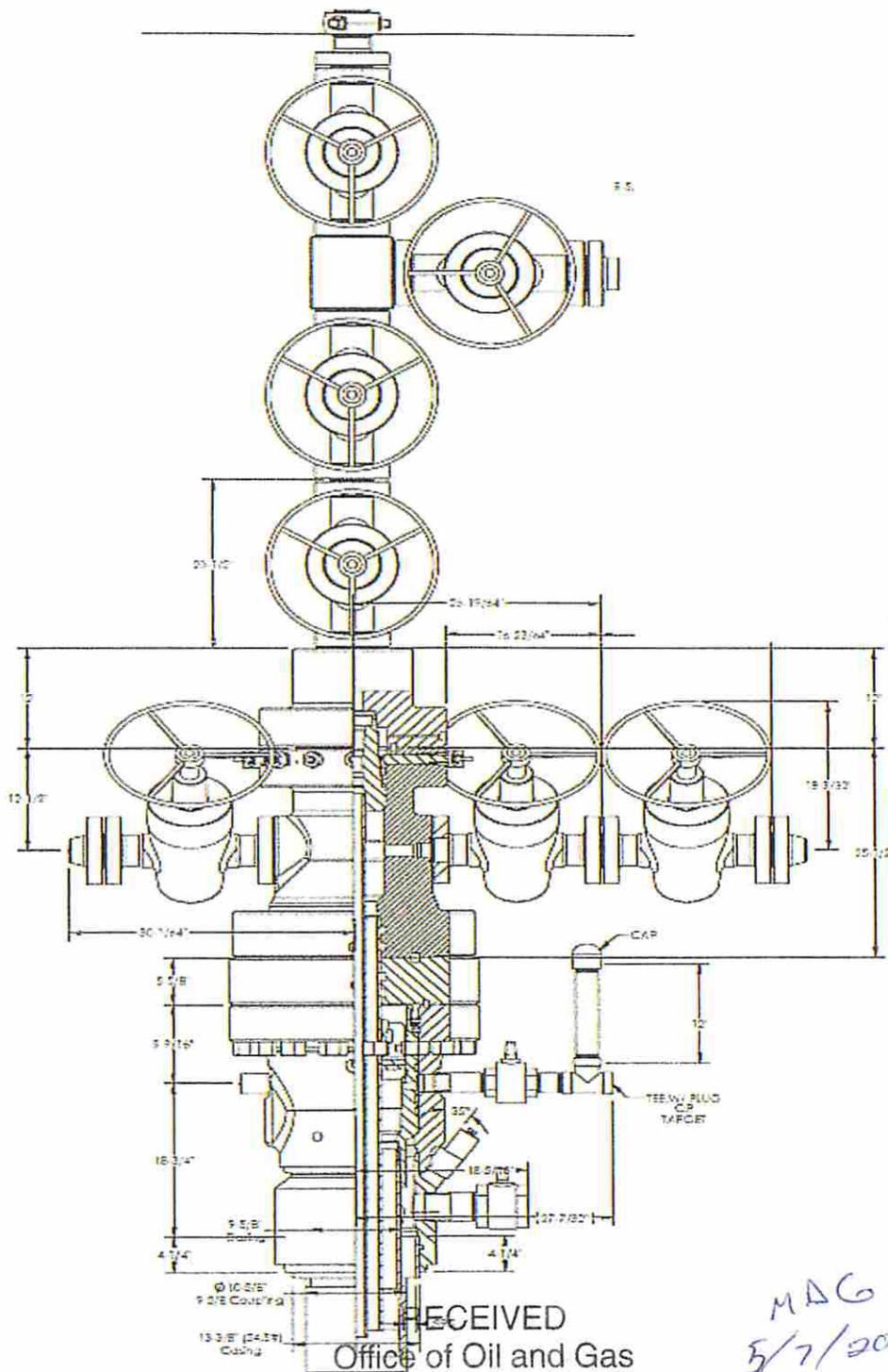


SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608  
 237 Birch River Road P.O. Box 438 Birch River, WV 26610

Well Head Assembly Design

Written Description:

Multi-bowl wellhead assembly with a 13 3/8" 5M x 13 3/8" SOW wellhead. A 13 5/8" 5M x 11" 5M DSA is used between the wellhead and tubing head. The tubing head is 11" 5M x 7 1/16" 10M. The tree is 2 1/16" 5M. Picture of stack up below.

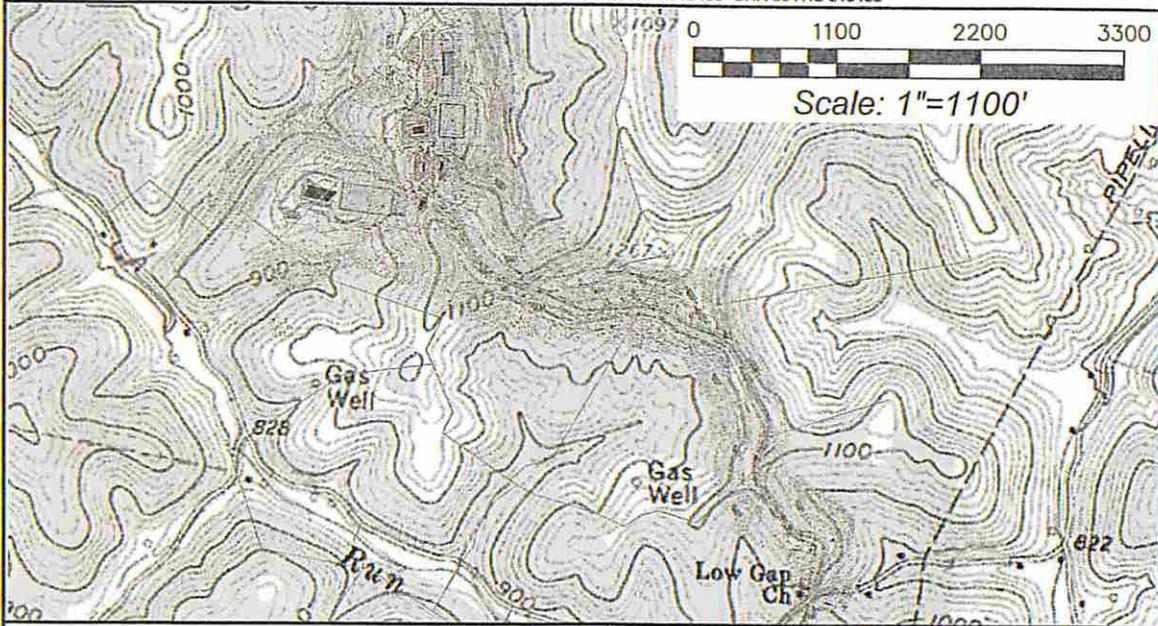


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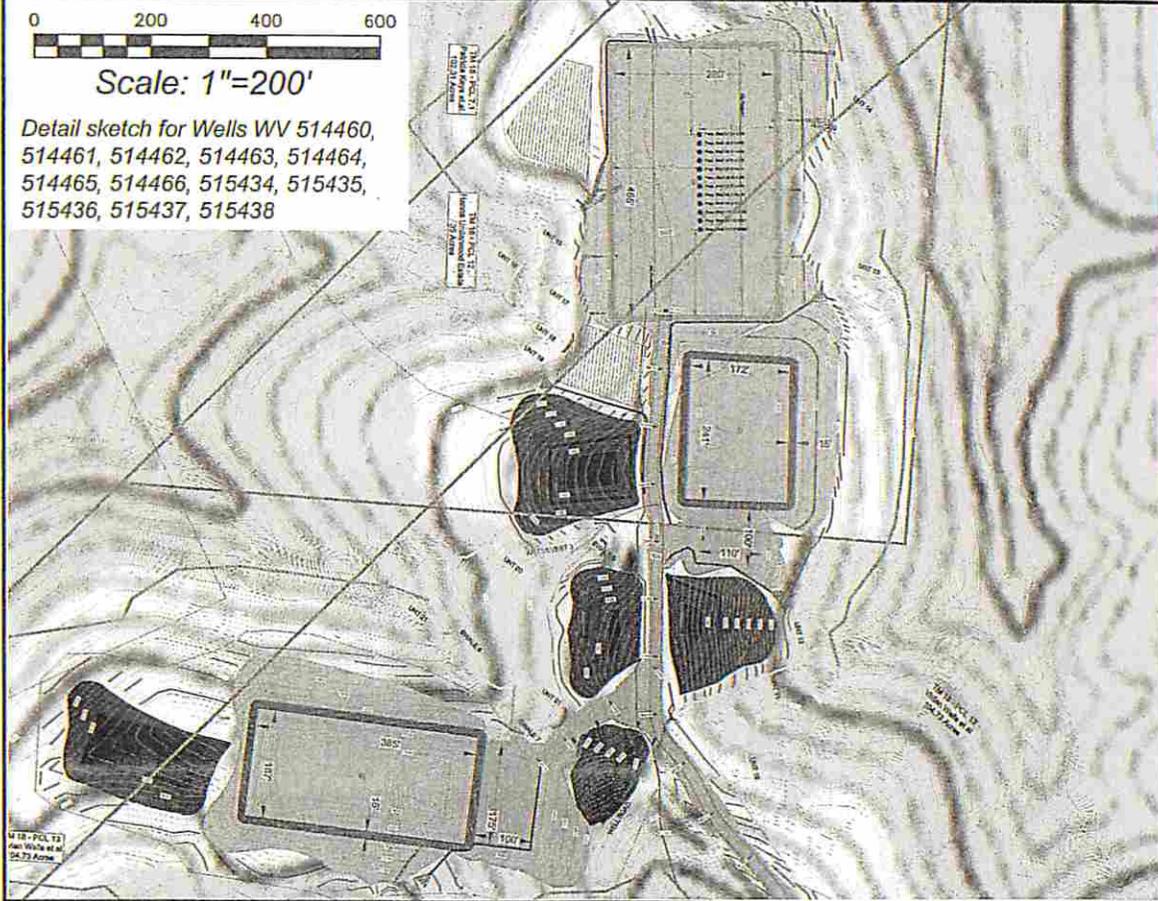
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WW-9

SHR 60 H1-514460 SHR 60 H4-514463 SHR 60 H7-514466 SHR 60 H10-515436  
 SHR 60 H2-514461 SHR 60 H5-514464 SHR 60 H8-515434 SHR 60 H11-515437  
 SHR 60 H3-514462 SHR 60 H6-514465 SHR 60 H9-515435 SHR 60 H12-515438



MAG  
5/7/2015



Detail sketch for Wells WV 514460, 514461, 514462, 514463, 514464, 514465, 514466, 515434, 515435, 515436, 515437, 515438

Shirley 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: October 24, 2014	FILE NO. 208-13	DRAWING FILE NO. ACAD-208-13-Rec Plan

Note: SEE SITE PLAN OF SHR 60 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION, EROSION & SEDIMENT CONTROL DETAILS.  
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**ALLEGHENY SURVEYS, INC.**

Birch River Office  
 Phone: (304) 649-8606  
 Fax: (304) 649-8608

1-800-482-8606

237 Birch River Road  
 P.O. Box 438  
 Birch River, WV 26610



Where energy meets innovation.™

# Site Specific Safety Plan

EQT SHR 60 Pad

Shirley  
Tyler County, WV

For Wells:

514460

Date Prepared:

October 24, 2014

[Signature]  
EQT Production

Michael Goff  
WV Oil and Gas Inspector

Permitting Supervisor  
Title

Title

4-23-14  
Date

5/7/2015  
Date

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<i>Section</i>	<i>Description</i>	<i>Pages</i>
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MDC  
5/7/2015

## Section VII: Collision Avoidance

Collision avoidance is managed by utilizing gyro tools, downhole steering tools (MWD/EM), and anti-collision software by engineers. Two drilling scenarios that occur are normal pad drilling and return to pad drilling. EQT categorizes these two scenarios as such because the two scenarios utilize very different mitigation plans.

Normal pad drilling is defined when a top hole rig drills each well on the pad down to kick off point (KOP) and then a bottom hole rig moves onto the pad after the top-hole rig moves off and drills the curve and lateral sections. Normal pad drilling can also be defined when a bottom hole rig moves to a pad and drills each well on the pad from surface to TD (Grassroots Well). Normal pad drilling carries much less risk and thus does not require frequent surveying and collision avoidance maneuvers because no producing wells are present and risk of unexpected pressure or well control events are not present.

Return to pad drilling is a scenario where a top-hole rig or a bottom hole rigs returns to a pad to drill additional well(s) that currently have producing (live) wells on the pad. Return to pad drilling requires more frequent surveying and anti-collision avoidance management because producing wells are present. By utilizing good engineering well design, anti-collision software and frequent surveys, wells can safely be drilled while existing or producing wells exist on the pad.

With both normal and return to pad drilling operations, every well planned to be drilled has a surface plot diagram, 2-D plot diagram, and a pad plot diagram prepared. (Plots attached under "Collision Avoidance Diagrams") In each scenario, north seeking gyro tools, MWD/EM tools, and anti-collision processes are utilized to mitigate the risk of downhole collisions. Anti-collision processes include conformation of gyro accuracy, evaluation of anti-collision software (Compass or equivalent program), and 2-D/3-D model plotting. In both scenarios, it is EQT's standard operating procedure (SOP) for the on-site supervisor of EQT and the directional drilling company supervisor to confirm the orientation of the directional tools and ensure that the tools are orientated consistent with the directional motor's high side. When anti-collision is a risk and directional assemblies are required to navigate utilizing a gyro tool, it is EQT's SOP to use the Gyro company's muleshoe to ensure the accuracy of the gyro seat in the muleshoe. In addition, when using this muleshoe, it is EQT's SOP to have the EQT's on-site supervisor, directional drilling company supervisor, and gyro company supervisor confirm the alignment and orientation of the tool and ensure that the tools are orientated consistent with the directional motor's high side. This ensures the azimuthal direction is correct when steering the well.

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### Normal Pad Drilling

In this scenario, there are no existing wells on the pad. A top-hole rig will move on to the pad and drill each well to KOP and then a bottom hole rig will move on after the top hole rig finishes and drill each well to horizontal TD. At times, the bottom hole rig may drill each well from surface to horizontal TD.

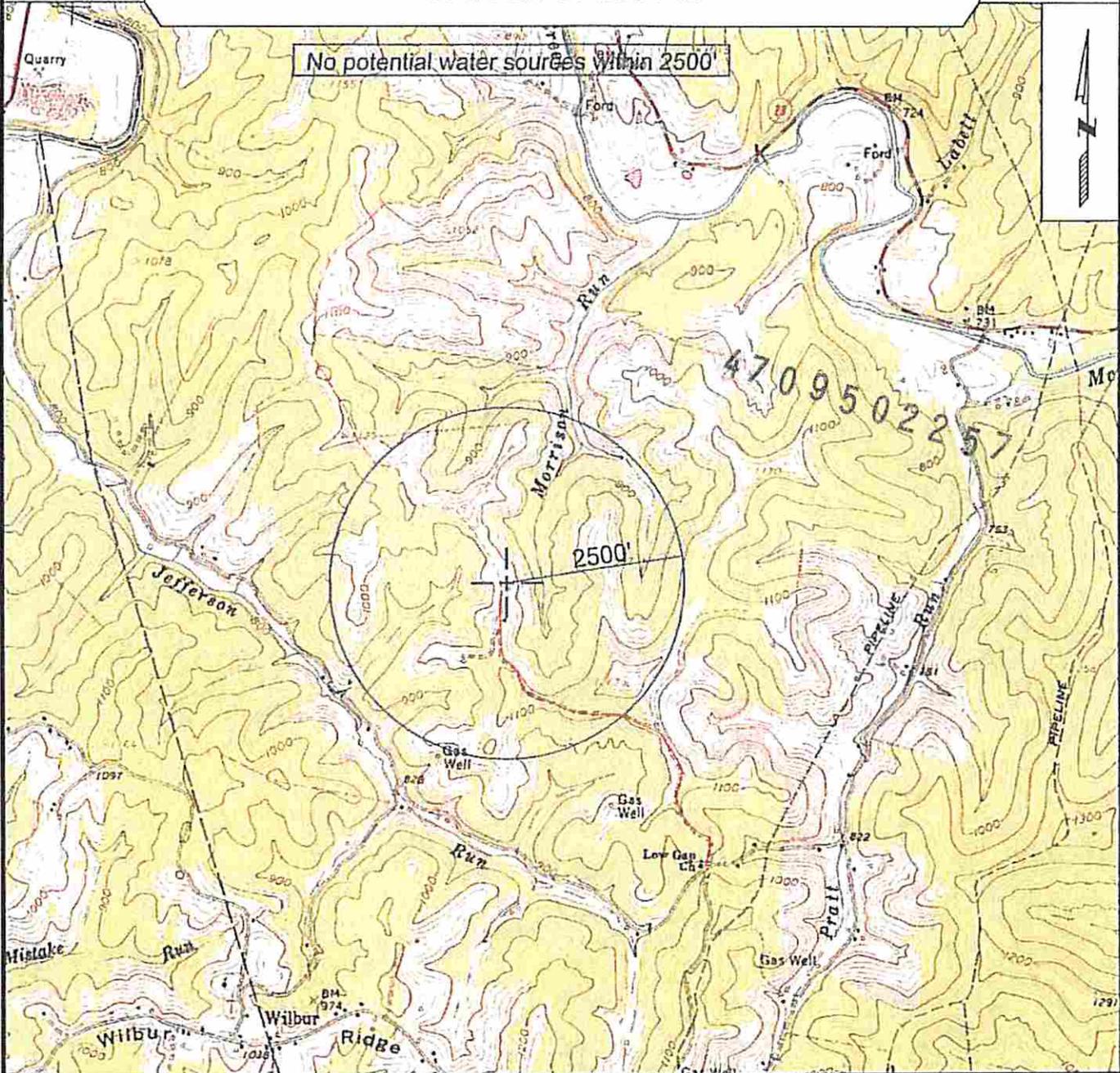
During this scenario, if two wells come within 10 feet or a separation factor of 1.5, each survey is monitored closely and anti-collision is run after each survey until the wells are clear of a collision risk. If a SF  $\leq 1.0$  or  $\leq 5'$  separation is encountered or a collision occurs, an email notification will be sent by the EQT on-site drilling supervisor to the appropriate state inspector. In the event the proximity of wells get

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Topo Quad: Shirley 7.5' Scale: 1" = 1000'  
 County: Tyler Date: October 30, 2014  
 District: McElroy Project No: 208-12-C-13

Water

**SHR 60 Well PAD**



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



Table 1 – Water Source Identification

EQT Well Pad Name: SHR60 Submittal Date: 10/30/14
EQT Well Number: 514460, 514462, 514463, 514464, 514565, 515434, 515435, 515436, 515437
Survey / Engineering Company: Allegheny Surveys Inc.

Site Number: Distance from Gas Well (feet):
Surface Owner / Occupant: No water sources 4709502257
Address: Phone #:
Field Located Date: Owner home during survey (yes/no):
Coordinates: (decimal degrees – NAD 83)
Contact Attempts (Date): 1st: 2nd: 3rd: Date Door Hanger Left:
Comments:

Site Number: Distance from Gas Well (feet):
Surface Owner / Occupant:
Address: Phone #:
Field Located Date: Owner home during survey (yes/no):
Coordinates: (decimal degrees – NAD 83)
Contact Attempts (Date): 1st: 2nd: 3rd: Date Door Hanger Left:
Comments:

Site Number: Distance from Gas Well (feet):
Surface Owner / Occupant:
Address: Phone #:
Field Located Date: Owner home during survey (Yes/No):
Coordinates: (decimal degrees – NAD 83)
Contact Attempts (Date): 1st: 2nd: 3rd: Date Door Hanger Left:
Comments:

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(Insert additional pages as needed)



**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	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty Min 1/8 pd	Book/Page
<b>126101</b>	William Blaine Underwood, et al	Equitable Gas Co.		DB186/86
	Equitable Gas Co.	Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitable Production Company		DB396/640
	Equitable Production Company	EQT Production Company		DB281/346      Doddridge Co.
<b>126167</b>	Savannah Pratt, et al	Equitable Gas Co.		DB192/425
	Equitable Gas Co.	Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitable Production Company		DB396/640
	Equitable Production Company	EQT Production Company		DB281/346      Doddridge Co.
<b>126161</b>	John M. Pierpoint, et al	Equitable Gas Co.		DB192/368
	Equitable Gas Co.	Equitrans, Inc.		DB274/471
	Equitrans, Inc.	Equitable Production Company		DB396/640
	Equitable Production Company	EQT Production Company		DB281/346      Doddridge Co.
<b>126211</b>	Mary E. Underwood, et vir	Hope Natural Gas Co.		DB70/477
	Hope Natural Gas Co.	Consolidated Gas Supply Corp.		DB169/26
	Consolidated Gas Supply Corp.	Consolidated Gas Transmission Corp.		DB249/287
	Consolidated Gas Transmission Corp.	CNG Development Co.		DB253/57
	CNG Development Co.	Dominion Appalachian Development, Inc.		DB337/340
	Dominion Appalachian Development, Inc.	Consol Gas Appalachian Development, LLC	CB9/131	name change
	Consol Gas Appalachian Development, LLC	CNX Gas Co., LLC		name change
	CNX Gas Co., LLC	EQT Production Co.		DB479/55

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

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

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

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

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

Well Operator EQT Production Company  
By:   
Its: Permitting Supervisor

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

470950257

Date of Notice Certification: 4-27-15

API No. 47 - 095 - 0  
 Operator's Well No. 514460  
 Well Pad Name: SHR60

**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>4,360,607.42</u>
County: <u>Tyler</u>	UTM NAD 83 Northing: <u>516,268.70</u>
District: <u>McElroy</u>	Public Road Access: <u>60/2</u>
Quadrangle: <u>Shirley</u>	Generally used farm name: <u>Vivian J Wells et al</u>
Watershed: <u>Morrison Run of McElroy Creek</u>	

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

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

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class 40 Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

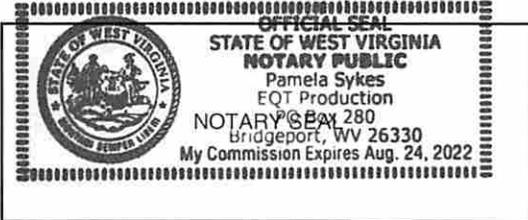
WV Department of Environmental Protection

**Certification of Notice is hereby given:**

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

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 23 day of April, 2015

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

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WW-6A  
(9-13)

API NO. 47 - 095 - 0  
OPERATOR WELL NO. 514460  
Well Pad Name: SHR60

**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: 4-27-15 Date Permit Application Filed: 4-27-15

**Notice of:**

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

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

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

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) 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: Vivian Janice Wells  
Address: 1814 Oil Ridge Road  
Sistersville WV 26175  
0

Name: George Birklein  
Address: 121 Oxford St  
Sistersville WV 26175  
See Attachment

SURFACE OWNERS(s) (Road and/or Other Disturbance)  
Name: Vivian Janice Wells  
Address: 1814 Oil Ridge Road  
Sistersville WV 26175  
0

Name: George Birklein  
Address: 121 Oxford St  
Sistersville WV 26175  
See Attachment

SURFACE OWNER(S) (Impoundments/Pits)  
Name: Vivian Janice Wells  
Address: 1814 Oil Ridge Road  
Sistersville WV 26175  
See Attachment

COAL OWNER OR LESSEE  
Name: Vivian Janice Wells  
Address: 1814 Oil Ridge Road  
Sistersville WV 26175  
0

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
0

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(S)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
0

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
0

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\*Please attach additional forms if necessary

WW6-A

**Additional Surface Owners:**

Albina Pasko  
18 Jensen St  
East Brunswick NJ 08816

Clifford Haug  
3894 Cellar Creek Rd  
Blackstone VA 23824

Timothy M Haug  
3890 Cellar Creek Rd  
Blackstone VA 23824

Benjamin A Haug  
3890 Cellar Creek Rd  
Blackstone VA 23824

Jean Jackubowski  
158 Baumgardner Road  
Willow Street PA 17584

Theodore Jackubowski  
1212 Kelso Blvd  
Windermere FL 34786

Louis Jackubowski Jr  
1922 Robindale Ave  
Lancaster PA 17601

Mary Jean Ross  
904 Truce Road  
Holtwood PA 17532

Susan Buzzard  
21 Cherokee Road  
Willow Street PA 17584

Sharon Graeff  
3217 Eisenbrown Rd  
Reading PA 19605

Virginia Hornberger  
3415 River Road  
Reading PA 19605

Anthony Jackubowski Jr  
535 Shawnee St  
Wilkes-Barre PA 18702

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**Additional Surface Owners:**

Raymond A Jackubowski ✓  
123 North Pioneer Ave  
Shavertown PA 18708

Beverly A Chisdock ✓  
213 Lehigh St  
Avoca PA 18641

Cynthia Kryzwicki ✓  
213 Nicholson St  
Wilkes-Barre PA 18702

Andrea Shotts ✓  
432-2 East Main St  
Plymouth PA 18651

Lisa Wesolowski ✓  
254 Lampman St  
Avoca PA 18641

4709502257

**Additional Surface Owners: Access Road**

Albina Pasko ✓  
18 Jensen St  
East Brunswick NJ 08816

Clifford Haug ✓  
3894 Cellar Creek Rd  
Blackstone VA 23824

Timothy M Haug ✓  
3890 Cellar Creek Rd  
Blackstone VA 23824

Benjamin A Haug ✓  
3890 Cellar Creek Rd  
Blackstone VA 23824

Jean Jackubowski ✓  
158 Baumgardner Road  
Willow Street PA 17584

Theodore Jackubowski ✓  
1212 Kelso Blvd  
Windermere FL 34786

Louis Jackubowski Jr ✓  
1922 Robindale Ave  
Lancaster PA 17601

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**Additional Surface Owners: Access Road**

Mary Jean Ross  
904 Truce Road  
Holtwood PA 17532

Susan Buzzard  
21 Cherokee Road  
Willow Street PA 17584

Sharon Graeff  
3217 Eisenbrown Rd  
Reading PA 19605

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213 Nicholson St  
Wilkes-Barre PA 18702

Andrea Shotts  
432-2 East Main St  
Plymouth PA 18651

Lisa Wesolowski  
254 Lampman St  
Avoca PA 18641

John Paul Davis  
45 Crystal Lake Road  
West Union WV 26456

Richard E Hansen  
1043 Low Gap Road  
Wilber WV 26459

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**Additional Surface Owners: Access Road**

Joyce K Hill  
88 Arvilla Rd  
Bens Run WV 26146

Terry J Cumberledge  
1384 Pratts Run Road  
Alma WV 26320

Allen Dale Fornash  
9217 Bachelor Rd NW  
Waynesburg OH 44688

Donald E Bible Sr  
2400 Millarton St SE  
Canton OH 44707

Susan L Spencer  
HC 74 Box 98  
Alma WV 26320

**Additional Surface Owners: Pits/Impoundments**

George Birklein  
121 Oxford St  
Sistersville, WV 26175

Albina Pasko  
18 Jensen St  
East Brunswick NJ 08816

Clifford Haug  
3894 Cellar Creek Rd  
Blackstone VA 23824

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3890 Cellar Creek Rd  
Blackstone VA 23824

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3890 Cellar Creek Rd  
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Theodore Jackubowski  
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4709502257

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Lancaster PA 17601

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4709502257

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3217 Eisenbrown Rd  
Reading PA 19605

Virginia Hornberger  
3415 River Road  
Reading PA 19605

Anthony Jackubowski Jr  
535 Shawnee St  
Wilkes-Barre PA 18702

Raymond A Jackubowski  
123 North Pioneer Ave  
Shavertown PA 18708

Beverly A Chisdock  
213 Lehigh St  
Avoca PA 18641

4709502257

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Environmental Protection

**Additional Coal Owners:**

Cynthia Kryzwicki  
213 Nicholson St  
Wilkes-Barre PA 18702

Andrea Shotts  
432-2 East Main St  
Plymouth PA 18651

Lisa Wesolowski  
254 Lampman St  
Avoca PA 18641

George Birklein  
121 Oxford St  
Sistersville, WV 26175

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WW-6A  
(8-13)

API NO. 47 - 095 - 0  
OPERATOR WELL NO. 514460  
Well Pad Name: SHR60

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

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

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

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Environmental Protection

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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

4709302257

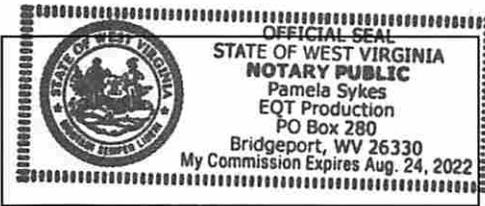
*Victoria Roark*

By: Victoria Roark

Its: Permitting Supervisor

Subscribed and sworn before on 23 day of April, 2015

*Pamela Sykes* Notary Public  
My Commission Expires 8-24-22

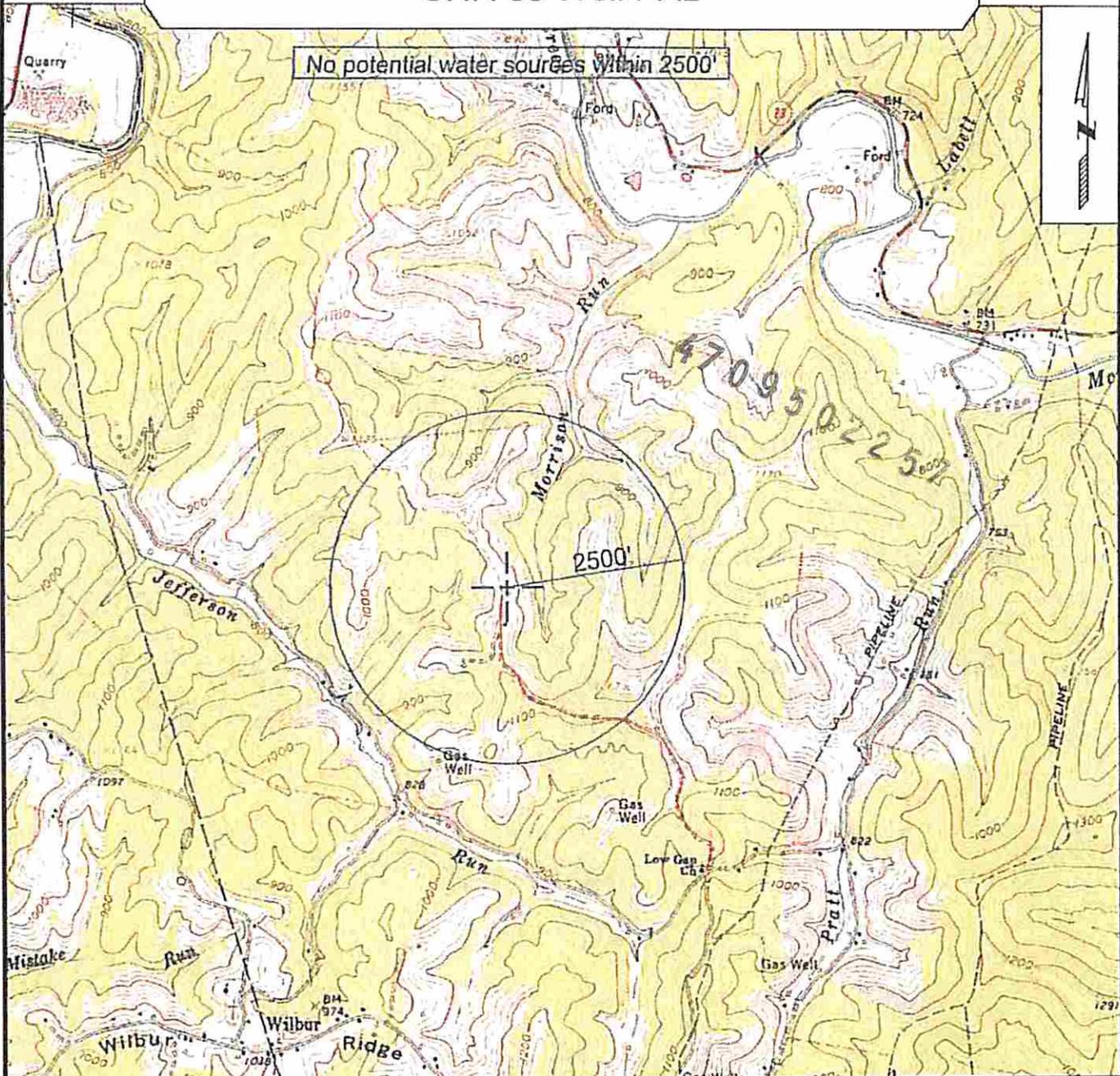


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Environmental Protection

Topo Quad: Shirley 7.5' Scale: 1" = 1000'  
 County: Tyler Date: October 30, 2014  
 District: McElroy Project No: 208-12-C-13

Water

**SHR 60 Well PAD**



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  
 RECEIVED  
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 WV Department of  
 Environmental Protection  
 App 27 2015

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

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

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

**Date of Notice:** 4/17/2015 **Date Permit Application Filed:** 4/27/2015

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

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

4709502257

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

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

Name: <u>Vivian Janice Wells</u>	Name: <u>George Birklein</u>
Address: <u>1814 Oil Ridge Road</u> <u>Sistersville WV 26175</u>	Address: <u>121 Oxford St</u> <u>Sistersville WV 26175</u>

**Notice is hereby given:**

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

State: <u>WV</u>	UTM NAD 83	Easting: <u>4,360,607.42</u>	
County: <u>Tyler</u>		Northing: <u>516,268.70</u>	
District: <u>McElroy</u>		Public Road Access: <u>60/2</u>	
Quadrangle: <u>Shirley</u>		Generally used farm name: <u>Vivian J Wells et al</u>	
Watershed: <u>Morrison Run of McElroy Creek</u>			

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: <u>EQT Production Company</u>	Authorized Representative: <u>Victoria Roark</u>
Address: <u>115 Professional Place, P.O Box 280</u> <u>Bridgeport, WV 26330</u>	Address: <u>115 Professional Place, P.O Box 280</u> <u>Bridgeport, WV 26330</u>
Telephone: <u>304-848-0076</u>	Telephone: <u>304-848-0076</u>
Email: <u>vroark@eqt.com</u>	Email: <u>vroark@eqt.com</u>
Facsimile: <u>304-848-0041</u>	Facsimile: <u>304-848-0041</u>

**Oil and Gas Privacy Notice:**

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**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
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**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

<input type="checkbox"/> HAND DELIVERY	<input checked="" type="checkbox"/> CERTIFIED MAIL RETURN RECEIPT REQUESTED
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**Notice is hereby provided to the SURFACE OWNER(s):**

<b>Name:</b> <u>Albina Pasko</u>	<b>Name:</b> <u>Clifford Haug</u>
<b>Address:</b> <u>18 Jensen St</u>	<b>Address:</b> <u>3894 Cellar Creek Rd</u>
<u>East Brunswick NJ 08816</u>	<u>Blackstone VA 23824</u>

**Notice is hereby given:**

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

State: <u>WV</u>	UTM NAD 83	Easting: <u>4360607.42</u>
County: <u>Tyler</u>		Northing: <u>516268.7</u>
District: <u>McElroy</u>		Public Road Access: <u>60/2</u>
Quadrangle: <u>Shirley</u>	Generally used farm name: <u>Vivian J Wells et al</u>	
Watershed: <u>Morrison Run of McElroy Creek</u>		

**This Notice Shall Include:**

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

**Notice is hereby given by:**

<b>Well Operator:</b> <u>EQT Production Company</u>	<b>Authorized Representative:</b> <u>Victoria Roark</u>
<b>Address:</b> <u>115 Professional Place, P.O Box 280</u>	<b>Address:</b> <u>115 Professional Place, P.O Box 280</u>
<u>Bridgeport, WV 26330</u>	<u>Bridgeport, WV 26330</u>
<b>Telephone:</b> <u>304-848-0076</u>	<b>Telephone:</b> <u>304-848-0076</u>
<b>Email:</b> <u>vroark@eqt.com</u>	<b>Email:</b> <u>vroark@eqt.com</u>
<b>Facsimile:</b> <u>304-848-0041</u>	<b>Facsimile:</b> <u>304-848-0041</u>

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

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

**Date of Notice:** 4/17/2015 **Date Permit Application Filed:** 4/27/2015

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

<input type="checkbox"/> HAND DELIVERY	<input checked="" type="checkbox"/> CERTIFIED MAIL RETURN RECEIPT REQUESTED
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**Notice is hereby provided to the SURFACE OWNER(s):**

Name: Timothy M Haug  
Address: 3890 Cellar Creek Rd  
Blackstone VA 23824

Name: Benjamin A Haug  
Address: 3890 Cellar Creek Rd  
Blackstone VA 23824

**Notice is hereby given:**

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County: <u>Tyler</u>		Northing: <u>516268.7</u>
District: <u>McElroy</u>	Public Road Access: <u>60/2</u>	
Quadrangle: <u>Shirley</u>	Generally used farm name: <u>Vivian J Wells et al</u>	
Watershed: <u>Morrison Run of McElroy Creek</u>		

**This Notice Shall Include:**

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**Notice is hereby given by:**

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

Authorized Representative: Victoria Roark  
Address: 115 Professional Place, P.O Box 280  
Bridgeport, WV 26330  
Telephone: 304-848-0076  
Email: [vroark@eqt.com](mailto:vroark@eqt.com)  
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**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
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**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

<input type="checkbox"/> HAND DELIVERY	<input checked="" type="checkbox"/> CERTIFIED MAIL RETURN RECEIPT REQUESTED
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**Notice is hereby provided to the SURFACE OWNER(s):**

Name: <u>Jean Jackubowski</u>	Name: <u>Theodore Jackubowski</u>
Address: <u>158 Baumgardner Rd</u>	Address: <u>1212 Kelso Blvd</u>
<u>Willow Street PA 17584</u>	<u>Windermere FL 34786</u>

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County: <u>Tyler</u>		Northing: <u>516268.7</u>
District: <u>McElroy</u>		Public Road Access: <u>60/2</u>
Quadrangle: <u>Shirley</u>	Generally used farm name: <u>Vivian J Wells et al</u>	
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Well Operator: <u>EQT Production Company</u>	Authorized Representative: <u>Victoria Roark</u>
Address: <u>115 Professional Place, P.O Box 280</u>	Address: <u>115 Professional Place, P.O Box 280</u>
<u>Bridgeport, WV 26330</u>	<u>Bridgeport, WV 26330</u>
Telephone: <u>304-848-0076</u>	Telephone: <u>304-848-0076</u>
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Facsimile: <u>304-848-0041</u>	Facsimile: <u>304-848-0041</u>

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REC'D  
Office of Oil and Gas  
APR 27 2015  
WV Department of Environmental Protection

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

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

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

**Date of Notice:** 4/17/2015 **Date Permit Application Filed:** 4/27/2015

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

<input type="checkbox"/> HAND DELIVERY	<input checked="" type="checkbox"/> CERTIFIED MAIL RETURN RECEIPT REQUESTED
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4709502257

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

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

Name: <u>Louis Jackubowski Jr</u>	Name: <u>Mary Jane Ross</u>
Address: <u>1922 Robindale Ave</u>	Address: <u>904 Truce Road</u>
<u>Lancaster PA 17601</u>	<u>Holtwood PA 17532</u>

**Notice is hereby given:**

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

State: <u>WV</u>	UTM NAD 83	Easting: <u>4360607.42</u>
County: <u>Tyler</u>		Northing: <u>516268.7</u>
District: <u>McElroy</u>		Public Road Access: <u>60/2</u>
Quadrangle: <u>Shirley</u>	Generally used farm name: <u>Vivian J Wells et al</u>	
Watershed: <u>Morrison Run of McElroy Creek</u>		

**This Notice Shall Include:**

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**Notice is hereby given by:**

Well Operator: <u>EQT Production Company</u>	Authorized Representative: <u>Victoria Roark</u>
Address: <u>115 Professional Place, P.O Box 280</u>	Address: <u>115 Professional Place, P.O Box 280</u>
<u>Bridgeport, WV 26330</u>	<u>Bridgeport, WV 26330</u>
Telephone: <u>304-848-0076</u>	Telephone: <u>304-848-0076</u>
Email: <u>vroark@eqt.com</u>	Email: <u>vroark@eqt.com</u>
Facsimile: <u>304-848-0041</u>	Facsimile: <u>304-848-0041</u>

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

Name: <u>Susan Buzzard</u>	Name: <u>Sharon Graeff</u>
Address: <u>21 Cherokee Road</u>	Address: <u>3217 Eisenbrown Rd</u>
<u>Willow Street PA 17584</u>	<u>Reading PA 19605</u>

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

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

Name: <u>Virginia Hornberger</u>	Name: <u>Anthony Jackubowski Jr</u>
Address: <u>3415 River Road</u>	Address: <u>535 Shawnee Street</u>
<u>Reading PA 19605</u>	<u>Wilkes Barre PA 18702</u>

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Address: <u>115 Professional Place, P.O Box 280</u>	Address: <u>115 Professional Place, P.O Box 280</u>
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**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

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

<b>Name:</b> <u>Raymond A Jackubowski</u>	<b>Name:</b> <u>Beverly A Chisdock</u>
<b>Address:</b> <u>123 North Pioneer Ave</u>	<b>Address:</b> <u>213 Lehigh Street</u>
<u>Shavertown PA 18708</u>	<u>Avoca PA 18641</u>

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

Name: Cynthia Kryzwicki  
Address: 213 Nicholson St  
Wilkes-Barre PA 18702

Name: Andrea Shotts  
Address: 432-2 East Main St  
Plymouth PA 18651

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**Notice is hereby given by:**

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

Authorized Representative: Victoria Roark  
Address: 115 Professional Place, P.O Box 280  
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Telephone: 304-848-0076  
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**Notice is hereby provided to the SURFACE OWNER(s):**

Name: Lisa Wesolowski  
Address: 254 Lampman Street  
Avoca PA 18641

Name: John Paul Davis  
Address: 45 Crystal Lake Road  
West Union WV 26456

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

Name: Richard E Hansen  
 Address: 1043 Low Gap Road  
Wilburn WV 26459

Name: Joyce K Hill  
 Address: 88 Arvilla Road  
Bens Run WV 26146

**Notice is hereby given:**

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State: <u>WV</u>	UTM NAD 83	Easting: <u>4360607.42</u>
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District: <u>McElroy</u>		Public Road Access: <u>60/2</u>
Quadrangle: <u>Shirley</u>	Generally used farm name: <u>Vivian J Wells et al</u>	
Watershed: <u>Morrison Run of McElroy Creek</u>		

**This Notice Shall Include:**

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

**Notice is hereby given by:**

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

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

**Oil and Gas Privacy Notice:**

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

RECEIVED  
Office of Oil and Gas

APR 27 2015

Department of  
Environmental Protection

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

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

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

**Date of Notice:** 4/17/2015 **Date Permit Application Filed:** 4/27/2015

4709502257

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

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

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

**Name:** Terry J Cumberledge  
**Address:** 1384 Pratts Run Road  
Alma WV 26320

**Name:** Allen Dale Fornash  
**Address:** 9217 Bachelor Rd NW  
Waynesburg OH 44688

**Notice is hereby given:**

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

State: <u>WV</u>	UTM NAD 83	Easting: <u>4360607.42</u>
County: <u>Tyler</u>		Northing: <u>516268.7</u>
District: <u>McElroy</u>		Public Road Access: <u>60/2</u>
Quadrangle: <u>Shirley</u>	Generally used farm name: <u>Vivian J Wells et al</u>	
Watershed: <u>Morrison Run of McElroy Creek</u>		

**This Notice Shall Include:**

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**Notice is hereby given by:**

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

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

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REC'D  
Office of Oil and Gas

APR 27 2015

WV Department of  
Environmental Protection

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

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

**Date of Notice:** 4/17/2015      **Date Permit Application Filed:** 4/27/2015

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

<input type="checkbox"/> HAND DELIVERY	<input checked="" type="checkbox"/> CERTIFIED MAIL RETURN RECEIPT REQUESTED
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4709502257

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

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

Name: <u>Donald E Bible Sr</u>	Name: <u>Susan L Spencer</u>
Address: <u>2400 Millarton ST SE</u>	Address: <u>HC 74 box 98</u>
<u>Canton OH 44707</u>	<u>Alma WV 26320</u>

**Notice is hereby given:**

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

State: <u>WV</u>	UTM NAD 83	Easting: <u>4360607.42</u>
County: <u>Tyler</u>		Northing: <u>516268.7</u>
District: <u>McElroy</u>		Public Road Access: <u>60/2</u>
Quadrangle: <u>Shirley</u>	Generally used farm name: <u>Vivian J Wells et al</u>	
Watershed: <u>Morrison Run of McElroy Creek</u>		

**This Notice Shall Include:**

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

**Notice is hereby given by:**

Well Operator: <u>EQT Production Company</u>	Authorized Representative: <u>Victoria Roark</u>
Address: <u>115 Professional Place, P.O Box 280</u>	Address: <u>115 Professional Place, P.O Box 280</u>
<u>Bridgeport, WV 26330</u>	<u>Bridgeport, WV 26330</u>
Telephone: <u>304-848-0076</u>	Telephone: <u>304-848-0076</u>
Email: <u>vroark@eqt.com</u>	Email: <u>vroark@eqt.com</u>
Facsimile: <u>304-848-0041</u>	Facsimile: <u>304-848-0041</u>

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WW-6A5  
(1/12)

Operator Well No. 514460

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: APR 27 2015 Date Permit Application Filed: APR 27 2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Vivian Janice Wells  
Address: 946 1814 Oil Ridge Road  
Sistersville WV 26175

Name: George Birklein  
Address: 121 Oxford St  
Sistersville WV 26175

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: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

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

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

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RECEIVED  
Office of Oil and Gas  
APR 27 2015  
WV Department of  
Environmental Protection

WW-6A5  
(1/12)

Operator Well No. 514460

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 APR 27 2015  
Date of Notice: \_\_\_\_\_ 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: Albina Pasko  
Address: 18 Jensen St  
East Brunswick NJ 08816

Name: Clifford Haug  
Address: 3894 Cellar Ck Rd  
Blackstone VA 23824

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: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

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

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

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RECEIVED  
Office of Oil and Gas  
APR 27 2015  
WV Department of  
Environmental Protection

WW-6A5  
(1/12)

Operator Well No. 514460

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 APR 27 2015

Date of Notice: APR 27 2015 Date Permit Application Filed: \_\_\_\_\_

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

CERTIFIED MAIL  HAND  
RETURN RECEIPT REQUESTED DELIVERY

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Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Timothy M Haug  
Address: 3890 Cellar Creek Rd  
Blackstone VA 23824

Name: Benjamin A Haug  
Address: 3890 Cellar Ck Rd  
Blackstone VA 23824

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: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

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

Address: 115 Professional Place, P.O. Box 280  
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WW-6A5  
(1/12)

Operator Well No. 514460

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

NOTICE OF PLANNED OPERATION

APR 27 2015

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

Date of Notice: APR 27 2015 Date Permit Application Filed: \_\_\_\_\_

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND DELIVERY

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Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Jean Jackubowski  
Address: 158 Baumgardner Rd  
Willow St PA 17584

Name: Theodore Jackubowski  
Address: 1212 Kelso Blvd  
Windmere FL 34786

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: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

Well Operator: EQT Production Company 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. 514460

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, APR 27 2015  
Date of Notice: APR 27 2015 Date Permit Application Filed: APR 27 2015

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

CERTIFIED MAIL  HAND  
RETURN RECEIPT REQUESTED DELIVERY

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Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Louis Jackubowski Jr  
Address: 1922 Robindale Ave  
Lancaster PA 17601

Name: Mary Jean Ross  
Address: 904 Truce Road  
Holtwood PA 17532

Notice is hereby given:

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State: WV UTM NAD 83 Easting: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

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

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RECEIVED  
Office of Oil and Gas  
APR 27 2015  
WV Department of  
Environmental Protection

WW-6A5  
(1/12)

Operator Well No. 514460

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. APR 27 2015

Date of Notice: APR 27 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):

4709502257

Name: Susan Buzzard  
Address: 21 Cherokee Road  
Willow St PA 17584

Name: Sharon Graeff  
Address: 3217 Eisenbrown Rd  
Reading PA 19605

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: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

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

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

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WW-6A5  
(1/12)

Operator Well No. 514460

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: APR 27 2015 Date Permit Application Filed: APR 27 2015

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: Virginia Hornberger  
Address: 3415 River Road  
Reading PA 19605

6709502257  
Name: Anthony Jackubowski Jr  
Address: 535 Shawnee St  
Wilkes-Barre PA 18702

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: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

Well Operator: EQT Production Company 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. 514460

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: APR 27 2015 Date Permit Application Filed: APR 27 2015

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.

4709502257

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: Raymond A Jackubowski  
Address: 123 North Pioneer Ave  
Shavertown PA 18708

Name: Beverly A Chisdock  
Address: 213 Lehigh St  
Avoca PA 18641

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: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

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

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

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APR 27 2015  
WV Department of  
Environmental Protection

WW-6A5  
(1/12)

Operator Well No. 514460

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: APR 27 2015 Date Permit Application Filed: APR 27 2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Cynthia Kryzwicki  
Address: 213 Nichololon St  
Wilkes-Barre PA 18702

Name: Andrea Shotts  
Address: 432-2 E Main St  
Plymouth PA 18651

4709502257

Notice is hereby given:

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State: WV UTM NAD 83 Easting: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

Well Operator: EQT Production Company 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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WV Department of  
Environmental Protection

WW-6A5  
(1/12)

Operator Well No. 514460

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: APR 27 2015 Date Permit Application Filed: APR 27 2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND DELIVERY

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Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Lisa Wesolowski  
Address: 254 Lampman St  
Avoca PA 18641

Name: John Paul Davis  
Address: 544 45 Crystal Lake Rd  
West Union WV 26456

Notice is hereby given:

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

State: WV UTM NAD 83 Easting: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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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. 514460

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: APR 27 2015 Date Permit Application Filed: APR 27 2015

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

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Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Richard E Hansen  
Address: 1043 low Gap Rd  
Wilbur WV 26459

Name: Joyce K Hill  
Address: 88 Arvilla Rd  
Bens Run WV 26146

4709502257

Notice is hereby given:

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State: WV UTM NAD 83 Easting: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

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

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WW-6A5  
(1/12)

Operator Well No. 514460

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: APR 27 2015 Date Permit Application Filed: APR 27 2015

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

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Notice is hereby provided to the SURFACE OWNER(s)

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

Name: Terry J Cumberledge  
Address: 1384 Pratts Run Road  
Almo WV 26320

Name: Allen Dale Fornash  
Address: 9217 Bachelor Rd NW  
Waynesburg OH 44688

Notice is hereby given:

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State: WV UTM NAD 83 Easting: 4,360,607.420000  
County: Tyler Northing: 516,268.700000  
District: McElroy Public Road Access: 60/2  
Quadrangle: Shirley Generally used farm name: Vivian J Wells et al  
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4709502257

This Notice Shall Include:

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WW-6A5  
(1/12)

Operator Well No. 514460

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: APR 27 2015 Date Permit Application Filed: APR 27 2015

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED  HAND DELIVERY

4709502257

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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: Donald E Bible Sr  
Address: 2400 Millarton St SE  
Canton OH 44707

Name: Susan L Spencer  
Address: HC 74 Box 98  
Alma WV 26320

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: 4,360,607.420000  
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Watershed: Morrison Run of McElroy Creek

This Notice Shall Include:

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

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

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

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas  
APR 27 2015  
WV Department of  
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin  
Governor

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

November 18, 2014

4709502257

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

Subject: DOH Permit for the SHR 60 Well Pad, Tyler County

- |                   |                   |                   |
|-------------------|-------------------|-------------------|
| 514460 SHR 60 H1  | 514461 SHR 60 H2  | 514462 SHR 60 H3  |
| 514463 SHR 60 H4  | 514464 SHR 60 H5  | 514465 SHR 60 H6  |
| 514466 SHR 60 H7  | 515434 SHR 60 H8  | 515435 SHR 60 H9  |
| 515436 SHR 60 H10 | 515437 SHR 60 H11 | 515438 SHR 60 H12 |
| 515968 SHR 60 H13 |                   |                   |

Dear Mr. Martin,

This well site will be accessed from DOH Permit #06-2014-0798 applied for by EQT Production Company for access to the State Road for a well site located off of Tyler County Route 60/1 SLS.

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

Very Truly Yours,

*Gary K. Clayton*

Gary K. Clayton P.E.  
Regional Maintenance Engineer  
Central Office Oil & Gas Coordinator

Cc: Nick Bumgardner  
EQT Production Company  
CH, OM, D-6  
File

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APR 27 2015  
WV Department of  
Environmental Protection

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

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

4709502257

IMP-1A



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:	
Assigned Impoundment ID #:	095-WPA-00013

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Office of Oil and Gas

JUL 20 2015

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>Homor 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>304-624-8445</u>	Contact Email: <u>tom@hbe1802.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. <u>Check one of two choices below:</u> <input type="checkbox"/> Freshwater Impoundment <input checked="" type="checkbox"/> Waste Pit Note: <u>Any</u> waste in a pit will make it a waste pit.		
RECEIVED Office of Oil and Gas  JUL 20 2015  WV Department of Environmental Protection		
Name of Structure (Company Name): <u>EQT-SHR 60 Flow Back Pit</u>		
County: <u>Tyler</u>	District: <u>McElroy</u>	
USGS 7.5' Quad Map Name: <u>Shirley</u>		
Farm Name: _____		
Pad Name: <u>SHR 60</u>		
Surface Owner Name: <u>Hannah Underwood Estate</u>		
Physical Description of Location: <u>From Intersection Tyler Co Rte 60/2 &amp; Tyler Co. Rte 60/1 &amp; Site Access Road</u> <u>travel northwesterly along access road 1 mile to completion pit on right</u>		
<small>(Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, left on Buffalo Creek)</small>		
Watershed (nearest perennial): <u>Morrison Run</u>		
Distance (Drainage Distance) to nearest perennial stream: <u>approximately 400 feet</u>		
Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))		
Latitude: <u>39.393400</u>	Longitude (Use negative sign): <u>-80.810804</u>	
UTM Coordinates : <u>UTM 83-17NF:1693867.102292 E</u>	<u>UTM 83-17NF:1430913.39017 N</u>	
Access Road Coordinates (junction of state highway access)		
Latitude: <u>39.383577</u>	Longitude (Use negative sign): <u>-80.800830</u>	
UTM Coordinates : <u>UTM 83-17NF:1696662.697888 E</u>	<u>UTM 83-17NF:14302342.952588 N</u>	
Approximate Dimensions		
Length: <u>241'</u>	Width: <u>172'</u>	Height: <u>15'</u>
<small>Note: If irregularly shaped, give approximate dimensions of long axis.</small>		
Total Capacity – Provide all units of measure below:		
Barrels: <u>54,859</u>	Gallons: <u>2,304,232</u>	Acre-Feet: <u>7.071</u>
Capacity with 2' Freeboard – Provide all units of measure below:		
Barrels: <u>68,651</u>	Gallons: <u>2,883,529</u>	Acre-Feet: <u>8.849</u>
Incised volume:		
Barrels: <u>22,518</u>	Gallons: <u>945,834</u>	Acre-Feet: <u>2.903</u>
Net Impounded volume: (Total volume less incised volume.)		
Barrels: <u>32,341</u>	Gallons: <u>1,3583,398</u>	Acre-Feet: <u>4.169</u>
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:
H1 514480 H2 514481	
H3 514482 H4 514483	
H5 514484 H6 514485	
H7 514486 H8 514487	
H9 515435 H10 515436	
H11 515437 H12 515438	

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WV Department of  
Environmental Protection

**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**

**Section 8 - Application Certification**

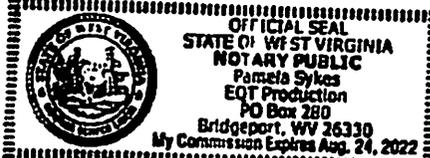
I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia 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 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.

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JUL 20 2013

WV Department of  
Environmental Protection

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

Taken, subscribed and sworn to before me this, 13 Day of Nov 20 14  
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 57<sup>th</sup> Street, SE  
Charleston WV 25304

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

IMP-1A



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:	
Assigned Impoundment ID #:	095-WPA-00014

## 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 535-4-21 will be followed as it relates to impoundments and pits.

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### Section 1 – Operator Information

WV Department of  
Environmental Protection

Operator Name:	EQT Production Company		
Operator ID:	306886		
Address: Street	115 Professional Place		
City:	Bridgeport	State:	WV Zip: 26330
Contact Name:	Ron Furby	Contact Title:	Sr. Mgr. Water Operations
Contact Phone:	412-395-7052	Contact Email:	rfurby@eqt.com

### Section 2 – Engineering / Design Contractor Information

Design will be contracted	<input checked="" type="checkbox"/>	Designed in-house	<input type="checkbox"/>
Company Name:	Honor Brothers Engineers		
Address: Street	P.O. Box 386		
City:	Clarksburg	State:	WV Zip: 26302
Contact Name:	Thomas D. Corathers	Contact Title:	PE, PS
Contact Phone:	304-624-8445	Contact Email:	tom@hbe1902.com
Certifying Professional Engineer:	Thomas D. Corathers		
Professional Engineer Registration Number:	14161		



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-SHR 60 Completion Pit  
 County: Tyler District: McElroy  
 USGS 7.5' Quad Map Name: Shirley  
 Farm Name: \_\_\_\_\_  
 Pad Name: SHR 60  
 Surface Owner Name: Vivian Wells et al  
 Physical Description of Location: From intersection Tyler Co Rta 60/2 & Tyler Co.Rte 60/1 & Site Access Road  
travel northwesterly along access road 1 mile to completion pit on left  
 (Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, left on Buffalo Creek)  
 Watershed (nearest perennial): Jefferson Run  
 Distance (Drainage Distance) to nearest perennial stream: approximately 1,700 feet

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JUL 20 2017

---

Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))  
 Latitude: 39.391721 Longitude (Use negative sign): -80.813090  
 UTM Coordinates : UTM 83-17NF:1693222.488888 E UTM 83-17NF:14305300.922538 N  
 Access Road Coordinates (junction of state highway access)  
 Latitude: 39.383577 Longitude (Use negative sign): -80.800830  
 UTM Coordinates : UTM 83-17NF:1696692.897888 E UTM 83-17NF:14302342.952588 N

---

Approximate Dimensions  
 Length: 385' Width: 187' Height: 15'  
 Note: If irregularly shaped, give approximate dimensions of long axis.

Total Capacity – Provide all units of measure below:  
 Barrels: 104,902 Gallons: 4,408,191 Acre-Feet: 13.522

Capacity with 2' Freeboard – Provide all units of measure below:  
 Barrels: 128,682 Gallons: 5,405,450 Acre-Feet: 16.589

Inclosed volume:  
 Barrels: 15,522 Gallons: 651,977 Acre-Feet: 2.001

Net impounded volume: (Total volume less incised volume.)  
 Barrels: 89,380 Gallons: 3,754,214 Acre-Feet: 11.521

Anticipated Construction Start Date (estimation, non-binding): \_\_\_\_\_  
 Note: No construction may begin on Assocloated 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."



**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:
H1 514400 H2 514401	
H3 514402 H4 514403	
H5 514404 H6 514405	
H7 514406 H8 515434	
H9 515433 H10 515436	
M11 515437 M12 515438	

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Environmental Protection

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

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**Section 7 -Comments - Provide any additional comments concerning this project**



Office of Oil and Gas

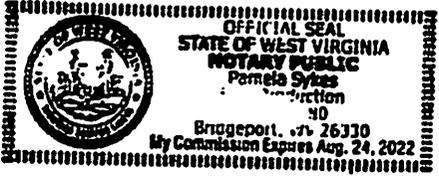
Section 8 - Application Certification

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. Roark  
Title: Permitting Supervisor  
Signature: [Handwritten Signature]

Taken, subscribed and sworn to before me this, 13 Day of Nov 20 14  
Notary Public: [Handwritten Signature]  
My commission expires: 2-24-22

Notary Seal:



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Office of Oil and Gas  
JUL 20 2014  
WV Department of Environmental Protection

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 57<sup>th</sup> Street, SE  
Charleston WV 25304  
  
Email PDF file format of this application and all related engineering Plans to :  
[Depimpoundments@wv.gov](mailto:Depimpoundments@wv.gov)

4709502257

MDC  
7/12/15

Well Number: 514460 (SHR60H1)

Casing and Cementing			Deepest Fresh Water: 906'		
Type	Conductor	Mine Protection	Surface	Intermediate	Production
Hole Size, In.	24		17 1/2	12 3/8	8 1/2
Casing Size, OD In.	20	-	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.375	-	0.380	0.395	0.361
Depth, MD	60'	-	992'	2,777'	12,687'
Depth, TVD	60'	-	992'	2,777'	6,634'
Centralizers Used	Yes	-	Yes	Yes	Yes
Weight/Grade	81#/MC-50	-	54.5#/J-55	40#/A-500	20#/P-110
New or Used	New	-	New	New	New
Pressure Testing	-	-	20% Greater than exp. Pressure	20% Greater than exp. Pressure	20% greater than exp. fracture pressure
After Fracture Pressure Testing	-	-	-	-	20% greater than exp. shut pressure
ID, in	19.25	-	12.615	8.835	4.778
Burst (psi)	-	-	2,730	3,590	12,640
Collapse (psi)	-	-	1,110	2,470	11,100
Tension (mlbs)	-	-	514	493	587
Cement Class	-	-	-	-	H
Cement Type	Construction	-	1	1	-
Cement Yield	1.18	-	1.21	1.21	1.27/1.86
Meets API Standards	-	-	Yes	Yes	Yes
WOC Time	-	-	Min. 8 hrs	Min. 8 hrs	Min. 8 hrs
Top of Cement (Planned)	Surface	-	Surface	Surface	4,426'
Fill (ft.)	60'	-	992'	2,777'	8,261'
Percent Excess	-	-	20	20	10
Est. Volume (cu ft)	58	-	862	1,084	2,108
Est. Volume (BBLs)	10	-	153	193	375

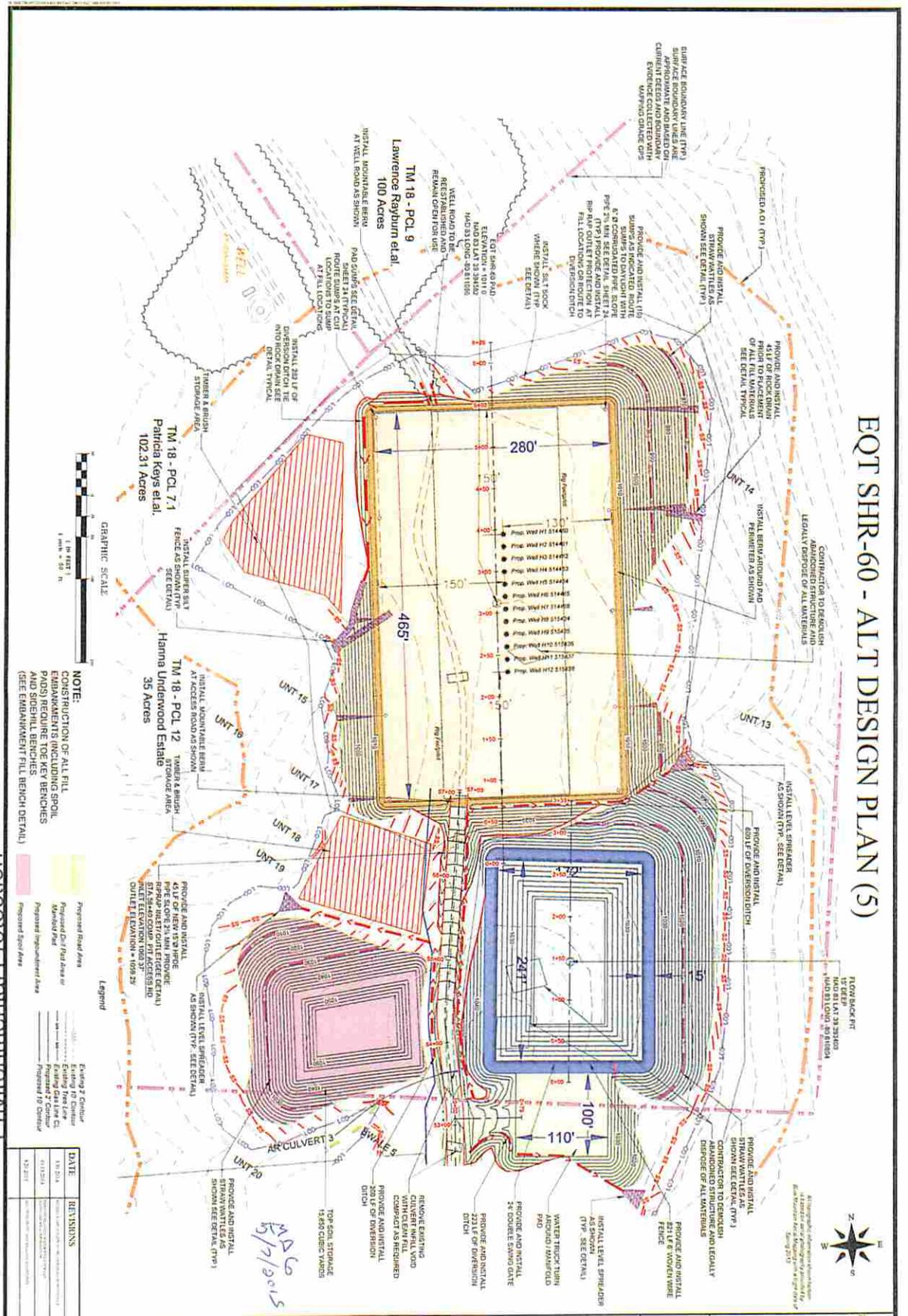
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Environmental Protection



# EQT SHR-60 - ALT DESIGN PLAN (5)



**NOTE:**  
 CONSTRUCTION OF ALL FILL EMBANKMENTS INCLUDING SPILL BENCHES AND SLOTTED BENCHES (SEE EMBANKMENT FILL BENCH DETAIL).

**Legend**

- Proposed Road Area
- Proposed Driveway Area
- Proposed Impervious Area
- Proposed Sign Area
- Existing 2' Center
- Existing 10' Center
- Existing 15' Center
- Proposed 2' Center
- Proposed 10' Center

DATE	REVISIONS	DWG
11/12/14	1.000 (ISSUE FOR PERMITTING)	SHR-60-1
11/12/14	1.001 (REVISED PER COMMENTS)	SHR-60-1
11/12/14	1.002 (REVISED PER COMMENTS)	SHR-60-1
11/12/14	1.003 (REVISED PER COMMENTS)	SHR-60-1
11/12/14	1.004 (REVISED PER COMMENTS)	SHR-60-1
11/12/14	1.005 (REVISED PER COMMENTS)	SHR-60-1
11/12/14	1.006 (REVISED PER COMMENTS)	SHR-60-1
11/12/14	1.007 (REVISED PER COMMENTS)	SHR-60-1
11/12/14	1.008 (REVISED PER COMMENTS)	SHR-60-1
11/12/14	1.009 (REVISED PER COMMENTS)	SHR-60-1
11/12/14	1.010 (REVISED PER COMMENTS)	SHR-60-1

FINAL SITE DESIGN PLAN ALT  
**SHR 60**  
**DRILL PAD SITE - ALT**  
 McELROY DISTRICT  
 TYLER COUNTY, WV



**Hornor**  
 Bros. Engineers  
 Civil, Mining, Environmental and  
 Consulting Engineers  
 1000 South Main Street, P.O. Box 585  
 Harborside, West Virginia, 26030 (304) 624-6100

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

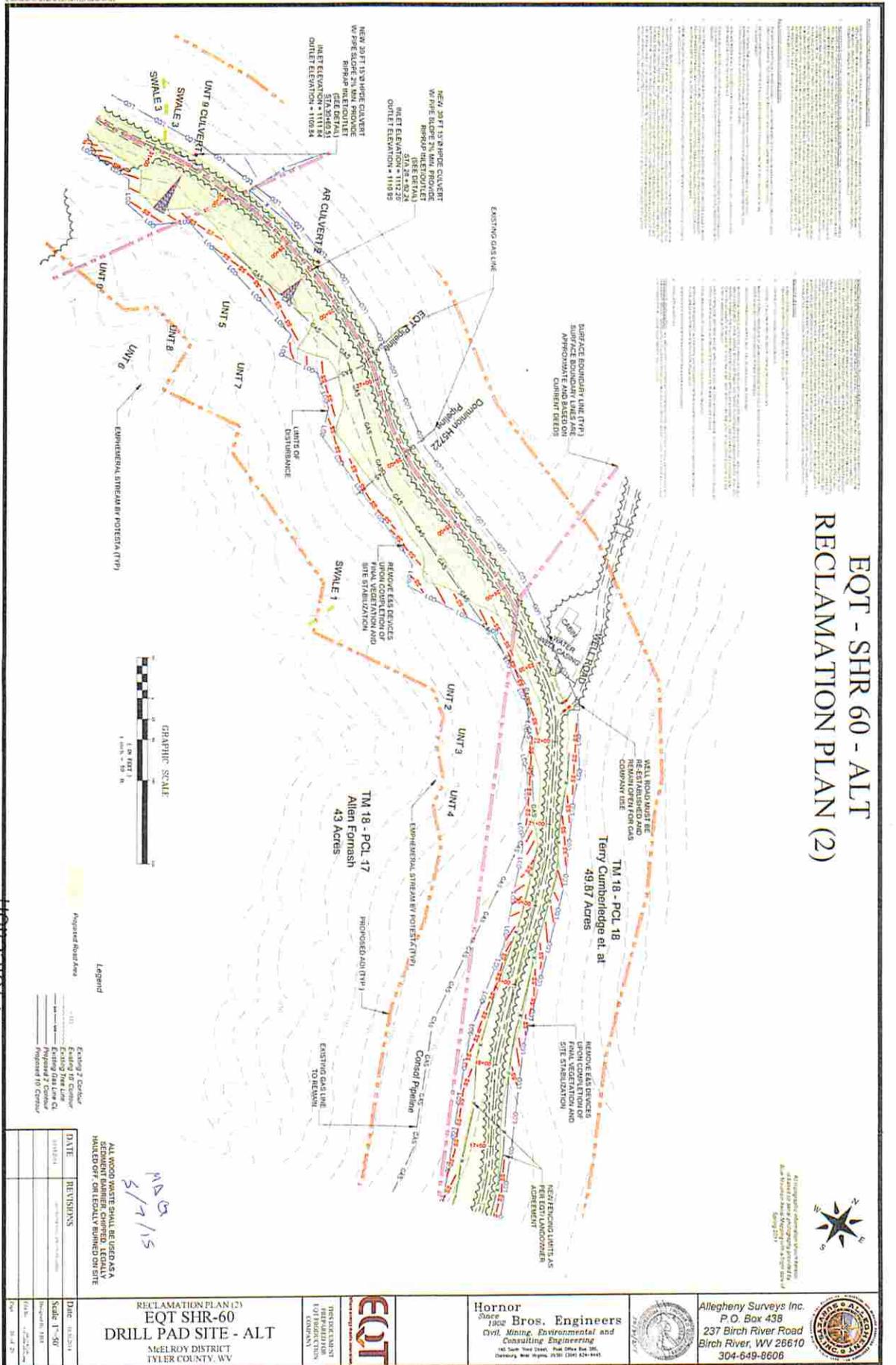


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 MAY 18 2015

WV Department of  
 Environmental Protection



# EQT - SHR 60 - ALT RECLAMATION PLAN (2)



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Office of Oil and Gas

MAY 18 2015

WV Department of  
Environmental Protection

ALL WOOD WASTE SHALL BE USED AS A  
SCREENING BARRIER, CHIPPED, LEGALLY  
HAULED OFF, OR LEGALLY BURNED ON SITE

DATE	REVISIONS

RECLAMATION PLAN (2)  
**EQT SHR-60**  
DRILL PAD SITE - ALT  
MELROY DISTRICT  
TYLER COUNTY, WV



**Hornor**  
1902 Bros. Engineers  
Civil, Mining, Environmental and  
Consulting Engineering  
145 S. Main Street, P.O. Box 200,  
Chapman, West Virginia 26030 (304) 824-1144

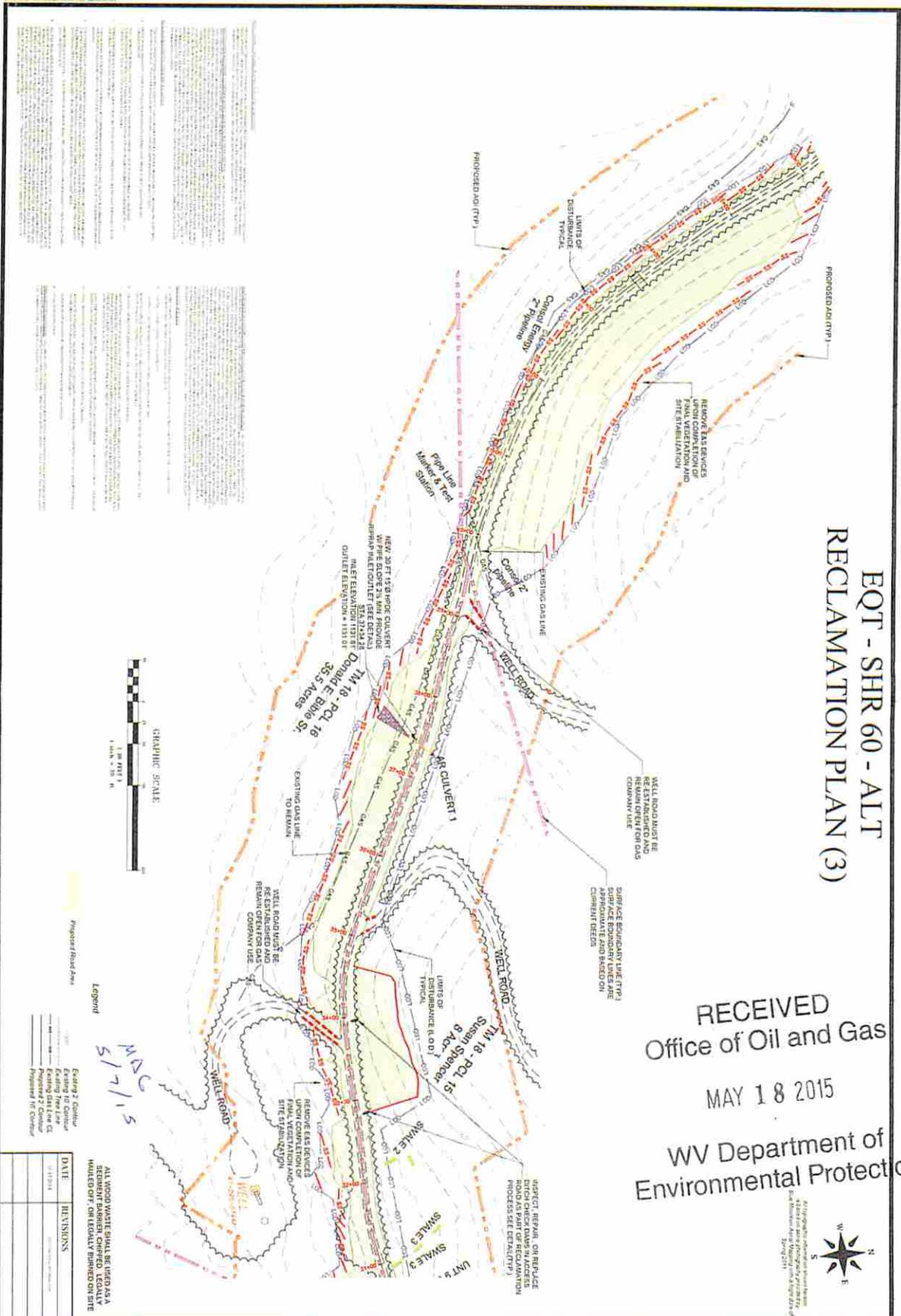


**Allegheny Surveys Inc.**  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



# EQT - SHR 60 - ALT RECLAMATION PLAN (3)

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WV Department of  
Environmental Protection



<p>DATE: 5/17/15</p> <p>REVISIONS:</p>	<p>DATE: 5/17/15</p> <p>BY: [Signature]</p> <p>DESCRIPTION: [Signature]</p>			
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ALL WOOD WASTE SHALL BE USED AS A MULCH OR FERTILIZER OR OTHERWISE RECYCLED OR OTHERWISE REUSED ON SITE.

RECLAMATION PLAN (3)  
**EQT SHR-60**  
DRILL PAD SITE - ALT  
MELROY DISTRICT  
TYLER COUNTY, WV

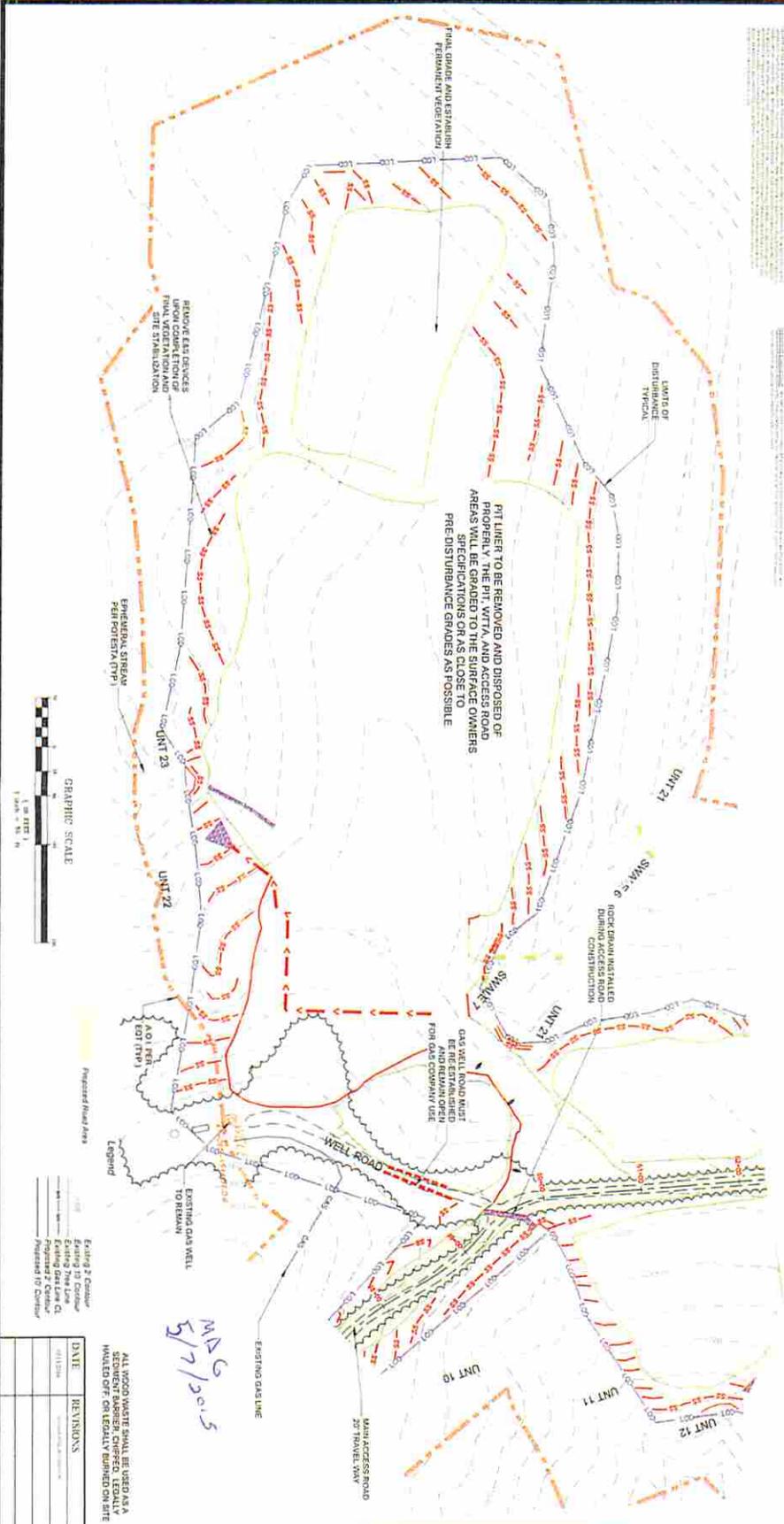
**EQT**  
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**Hornor Bros. Engineers**  
Civil, Mining, Environmental and Consulting Engineers  
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**Allegheny Surveys Inc.**  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606

EQT - SHR 60 - ALT  
RECLAMATION PLAN (4)

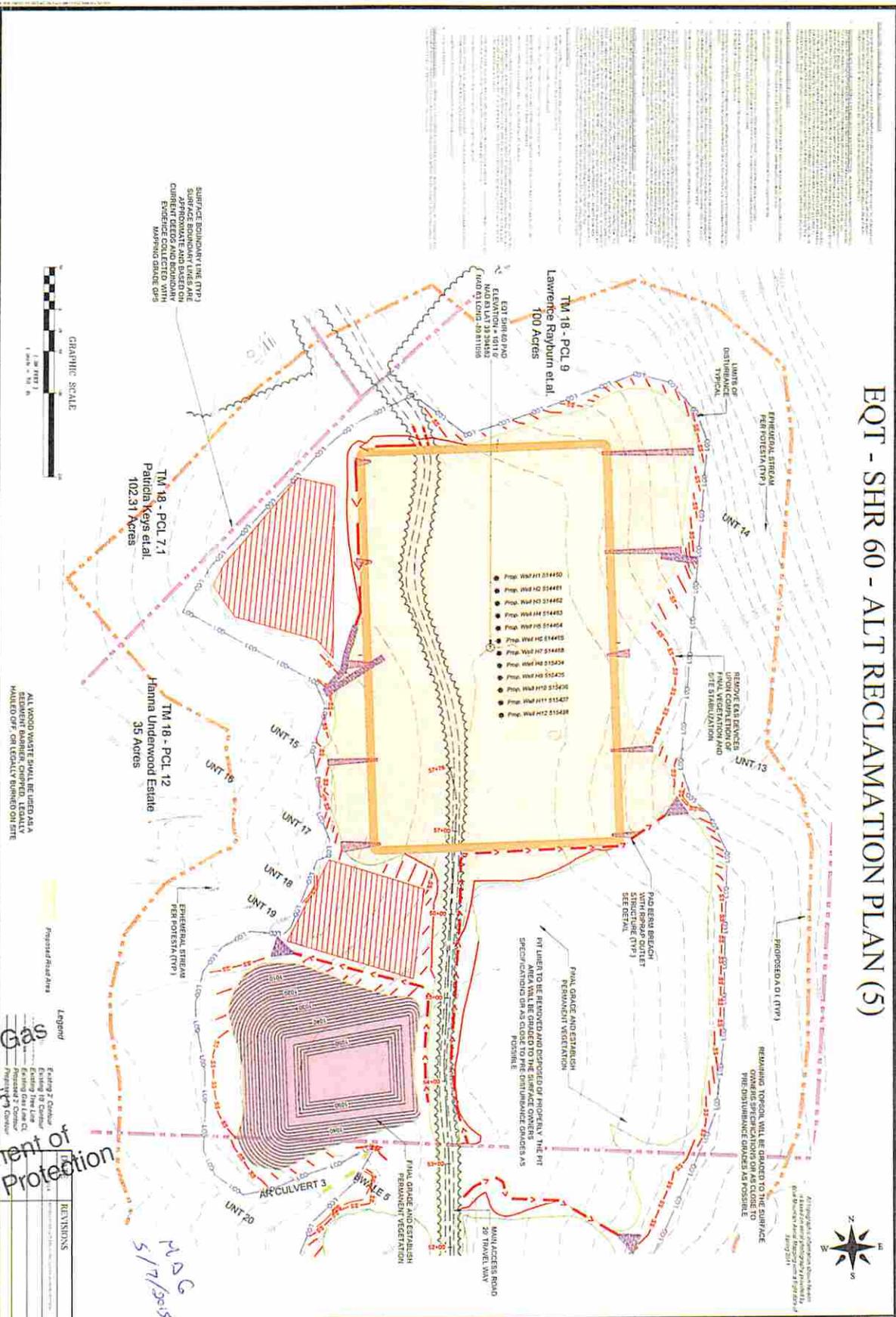
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<p><b>Allegany Surveys Inc.</b> P.O. Box 438 237 Birch River Road Birch River, WV 26610 304-649-8606</p>	<p><b>Hornor Bros. Engineers</b> 3102 Civil, Mining, Environmental and Consulting Engineering 140 South Third Street, Fair Office Box 206 Martinsburg, West Virginia 25701 (304) 421-6941</p>	<p><b>EQT</b> THE RECLAIMANT REMAINS THE OWNERS</p>	<p>RECLAMATION PLAN (4) <b>EQT SHR-60 DRILL PAD SITE - ALT</b> McELROY DISTRICT TYLER COUNTY, WV</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>REVISIONS</th> <th>DRAWN BY</th> </tr> </thead> <tbody> <tr> <td>04/11/2015</td> <td>Initial Design</td> <td>MDG</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Scale: 1" = 50' Sheet No.: EQT-SHR-60-ALT-04 Date: 04/11/2015</p>	DATE	REVISIONS	DRAWN BY	04/11/2015	Initial Design	MDG												
DATE	REVISIONS	DRAWN BY																			
04/11/2015	Initial Design	MDG																			

MDG  
5/7/2015

EQT - SHR 60 - ALT RECLAMATION PLAN (5)



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REVISIONS

NO.	DATE	DESCRIPTION
1	05/18/15	ISSUED FOR PERMITTING

RECLAMATION PLAN (5)  
EQT SHR-60  
DRILL PAD SITE - ALT  
MELROY DISTRICT  
TYLER COUNTY, WV



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