



**west virginia** department of environmental protection

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

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

April 28, 2016

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-6101748, 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: 512707  
Farm Name: PRATT, BERNARD D.

**API Well Number: 47-6101748**

**Permit Type: Horizontal 6A Well**

Date Issued: 04/28/2016

**Promoting a healthy environment.**

**04/29/2016**

**PERMIT CONDITIONS**

06101748

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.

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**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. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov).

4706101748

WW-6B  
(04/15)

API NO. 47-061 - \_\_\_\_\_  
OPERATOR WELL NO. 512707  
Well Pad Name: GRT27

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

1) Well Operator: EQT Production Company 306686 Monongalia Grant Grant Town  
Operator ID County District Quadrangle

2) Operator's Well Number: 512707 Well Pad Name: GRT27

3) Farm Name/Surface Owner: Bernard D. Pratt Public Road Access: RT 250

4) Elevation, current ground: 1229 Elevation, proposed post-construction: 1216

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

(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal  \_\_\_\_\_

6) Existing Pad: Yes or No No *MJK 3/11/2016*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 7620', 136', 2593 PSI, Top of Marcellus 7524

8) Proposed Total Vertical Depth: 7620

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 11602

11) Proposed Horizontal Leg Length: 3386

12) Approximate Fresh Water Strata Depths: 63, 195, 255, 522

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

14) Approximate Saltwater Depths: 1485, 1539, 1569

15) Approximate Coal Seam Depths: 7, 127, 184, 278, 468, 508, 553

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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Office of Oil & Gas  
MAR 15 2016

04/29/2016

WW-6B  
(04/15)

API NO. 47-061 -  
OPERATOR WELL NO. 512707  
Well Pad Name: GRT27

18)

CASING AND TUBING PROGRAM

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.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft <sup>3</sup> / CTS
Fresh Water	13 3/8	New	J-55	54.5	672	672	637 ft <sup>3</sup> / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2944	2944	1160 ft <sup>3</sup> / CTS
Production	5 1/2	New	P-110	20	11602	11602	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclinatn	
Liners							

MJK 3/11/2016

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	26	.375	1378	1102	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class H	1.07/1.86
Tubing	2 3/8	NA	.19	7700			
Liners							

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Office of Oil & Gas  
MAR 15 2016

PACKERS

Kind:				
Sizes:				
Depths Set:				

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. Drill the vertical to an approximate depth of 5945'. Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 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): 26.83

22) Area to be disturbed for well pad only, less access road (acres): 19.39

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 solid body centralizer spaced every joint from production casing shoe to KOP

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives  
Surface (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries, .25% Flake. Loss Circulation Material (LCM)  
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries. 0.25% flake. Loss Circulation Material (LCM)  
Production:  
Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)  
Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 60 % Calcium Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.  
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.  
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.

**Well 512707(GRT27H2)**

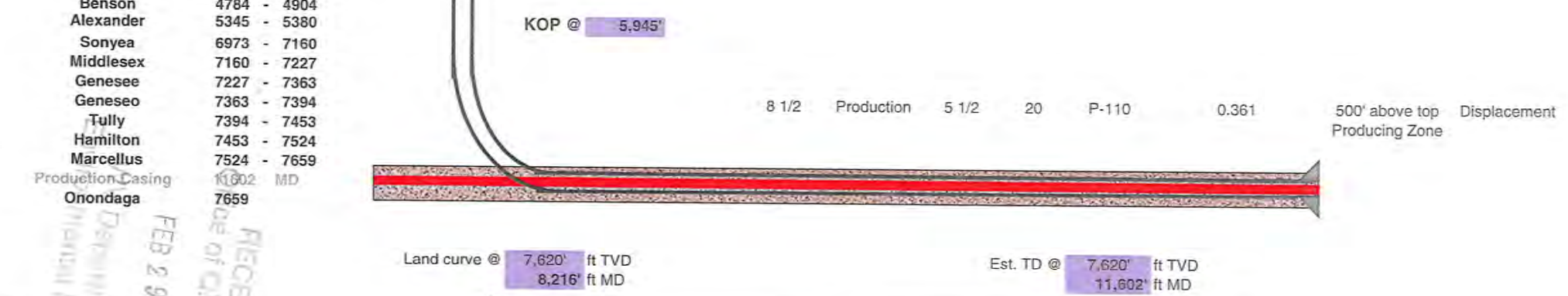
**EQT Production  
Grant Town  
Monongalia**

**Quad  
County, WV**

Azimuth 156  
Vertical Section 3458

Note: Diagram is not to scale

Formations	Top TVD	Base TVD	Hole Size				Casing			
			(in)	Type	Size (in)	Wt (ppf)	Grade	Wall Thickness (in)	Top of Cement	Method
Conductor	40		26	Conductor	20	78.6	A-500	0.375	Surface	Displacement
Base Fresh Water	522									
Surface Casing	672		17 1/2	Surface	13 3/8	54.5	J-55	0.38	Surface	Displacement
<b>Base Red Rock</b>	<b>1740</b>									
Maxton	1405 -	1481								
Big Lime	1722 -	1815								
Big Injun	1804 -	1957								
Weir	2035 -	2056								
Gantz	2343 -	2373								
Fifty foot	2393 -	2447								
Thirty foot	2509 -	2553								
Gordon	2593 -	2619								
Forth Sand	2635 -	2666								
Bayard	2858 -	2894								
Intermediate Casing	2944		12 3/8	Intermediate	9 5/8	40	A-500	0.395	Surface	Displacement
Warren	3222 -	3247								
Speechley	3359 -	3460								
Balltown A	3494 -	4179								
Riley	4121 -	4198								
Benson	4784 -	4904								
Alexander	5345 -	5380								
Sonyea	6973 -	7160								
Middlesex	7160 -	7227								
Genesee	7227 -	7363								
Geneseo	7363 -	7394	8 1/2	Production	5 1/2	20	P-110	0.361	500' above top Producing Zone	Displacement
Tully	7394 -	7453								
Hamilton	7453 -	7524								
Marcellus	7524 -	7659								
Production Casing	11,602	MD								
Onondaga	7659									



Proposed Well Work:  
 Drill and complete a new horizontal well in the Marcellus formation.  
 Drill the vertical to an approximate depth of 5945'.  
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

3,388' ft Lateral

4700101740

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 DEPARTMENT OF CIVIL ENGINEERING  
 FEB 29 2011



west virginia department of environmental protection

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

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

March 18, 2014

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

4706101745

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

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West Virginia Department of  
Environmental Protection

04/29/2016



west virginia department of environmental protection

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

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

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

**IN THE MATTER OF A VARIANCE FROM )  
REGULATION 35 CSR § 4-11.4/11.5/14.1 )  
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE )  
THE OPERATIONAL )  
REGULATIONS OF CEMENTING OIL )  
AND GAS WELLS )**

**ORDER NO. 2014 - 17**

**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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WV Department of  
Environmental Protection

04/29/2016



**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**

4706101748

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief  
Office of Oil and Gas



February 18, 2016

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

4706101748

Re: Casing Plan on Well (GRT27)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 672' KB, 150' below the deepest fresh water. We will set the 9-5/8" intermediate string at 2944' KB, 50' below the base of the Bayard formation.

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

Sincerely,

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

Vicki Roark  
Permitting Supervisor

Enc.

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WV Department of  
Environmental Protection

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**VOLUNTARY STATEMENT OF NO OBJECTION**

**Instructions to Persons Named on Page WW-6A**

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

**Comment and Waiver Provisions**

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I, Casey V. Saunders, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia WVSPN NAD 27 Easting: 1,823,174.373  
County: Monongalia Northing: 404,499.265  
District: Grant Public Road Access: \_\_\_\_\_  
Quadrangle: GRANT TOWN Generally used farm name: \_\_\_\_\_  
Watershed: \_\_\_\_\_

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, **provided that EQT Production Company drills the well on WV North NAD27 coordinates of North 404,499.265, East 1,823,174.373. This statement does not serve as notice that CONSOL Mining Company LLC has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by CONSOL Mining Company LLC mining activity. This Voluntary Statement of No Objection does not waive CONSOL Mining Company LLC's Common Law Property Rights in the State of West Virginia.**

*Please check the box that applies <input type="checkbox"/> SURFACE OWNER  <input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)  <input type="checkbox"/> SURFACE OWNER (Impoundments/Pits) <input checked="" type="checkbox"/> COAL OWNER OR LESSEE <input checked="" type="checkbox"/> COAL OPERATOR  <input type="checkbox"/> WATER PURVEYOR  <input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD	<b>FOR EXECUTION BY A NATURAL PERSON</b>  Signature: _____ Print Name: _____ Date: _____
	<b>FOR EXECUTION BY A CORPORATION, ETC.</b> Company: <u>CONSOL Mining Company LLC</u> By: <u>Casey V. Saunders</u> Its: <u>Senior Project Engineer</u>  Signature: <u><i>Casey V. Saunders</i></u> Date: <u>3/1/2016</u> <p style="text-align: right;">Office of Oil and Gas</p>

**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 of your personal information, please contact DEP's Chief Privacy Officer at [privacy@dep.wv.gov](mailto:privacy@dep.wv.gov).

MAR 04 2016

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04/29/2016

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 (HUC 10) Indian Creek Quadrangle Grant Town

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: N/A

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

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 \_\_\_\_\_)

4700101768

Will closed loop system be used? If so, describe: 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. See Attached

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

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 24 day of February, 20 16

Rebecca L. Wanstreet Notary Public

My commission expires 4-7-20

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Form WW-9

Operator's Well No. 512707

Proposed Revegetation Treatment: Acres Disturbed 26.83 Prevegetation pH 6.3

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

4706101748

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 (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Maureen J. Kretzsch

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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MAR 15 2016

Title: INSPECTION

Date: 3/11/2016

Field Reviewed? (  ) Yes (  ) No

WW-9

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.

Additives to be used in drilling medium?

- Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud – Barite, viscosifier, alkalinity control, lime, filtration control, deflocculants, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifier, alkalinity control, filtration control, deflocculants, biodegradable oil lubricant, defoaming, carbonates.

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WV Department of  
Environmental Protection  
04/29/2016

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

**CWS TRUCKING INC.**

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

**BROAD STREET ENERGY LLC**

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

**LAD LIQUID ASSETS DISPOSAL INC.**

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

**TRIAD ENERGY**

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

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

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

**KING EXCAVATING CO.**

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

**Waste Management - Meadowfill Landfill**

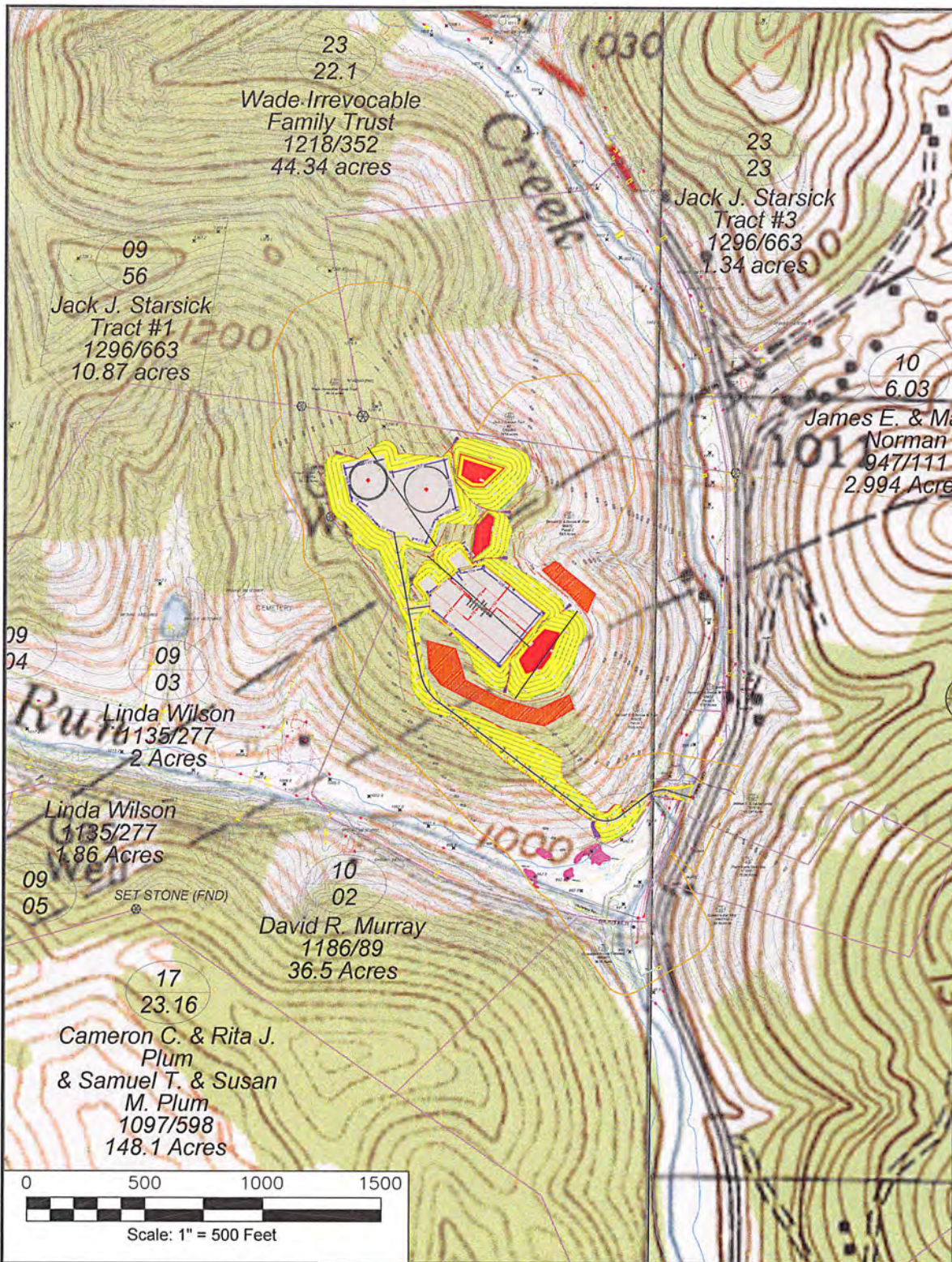
Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**Waste Management - Northwestern Landfill**

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

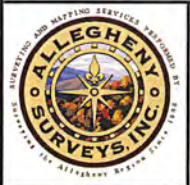
4706100000

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WV Department of  
Environmental Protection  
04/29/2016



Grant Town 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: January 06, 2015	FILE NO. 138-14	DRAWING FILE NO. 13814 Rec Plan

Note: SEE SITE PLAN OF GRANT TOWN 27 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC.



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

04/29/2016





Where energy meets innovation.™

# Site Specific Safety Plan

## EQT GRT 27 Pad


### Core

## Monongalia County, WV

4706101748

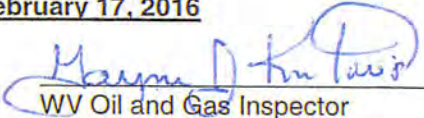
\_\_\_\_\_ 512706 \_\_\_\_\_ 512707 \_\_\_\_\_ For Wells: 512708 \_\_\_\_\_ 513693 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

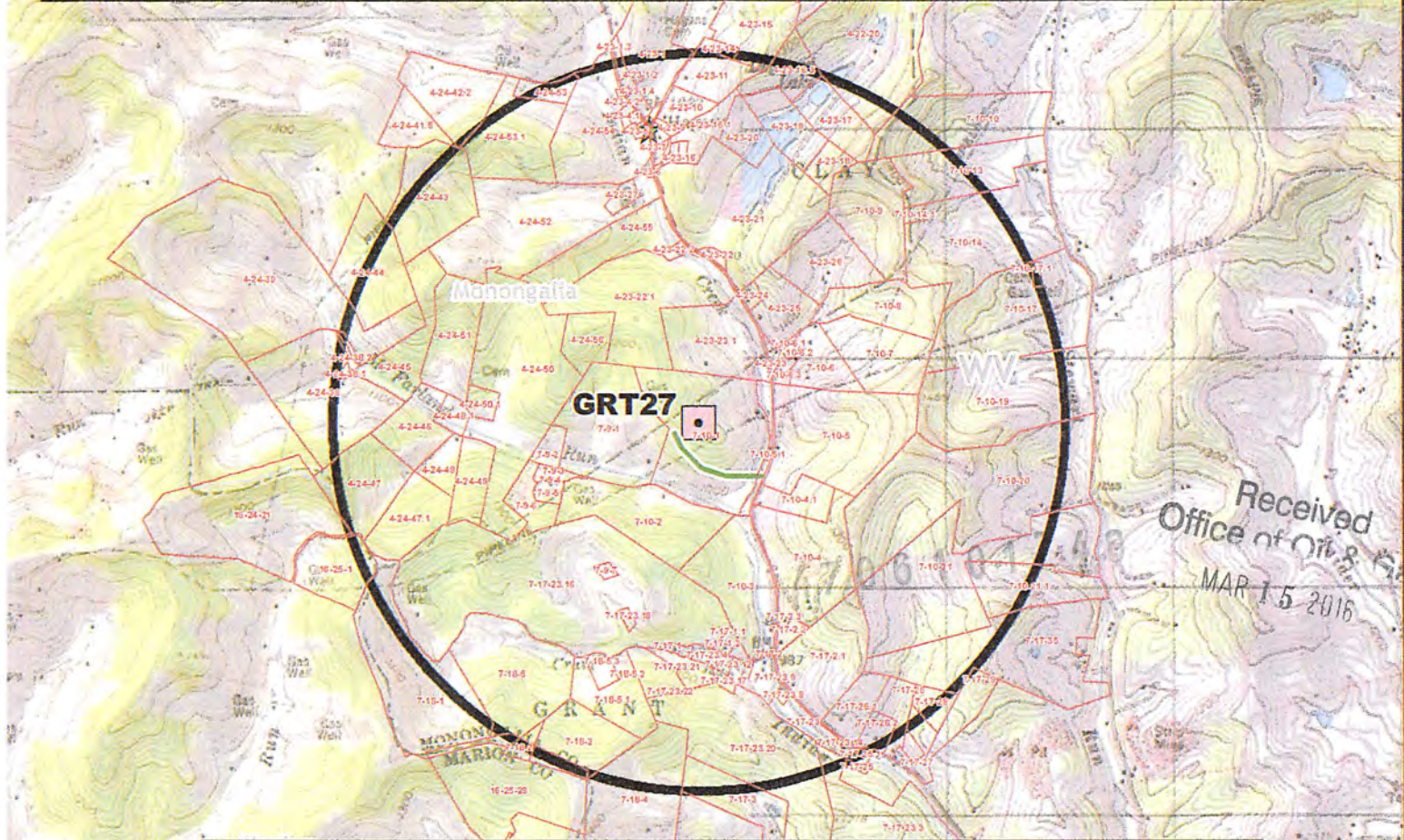
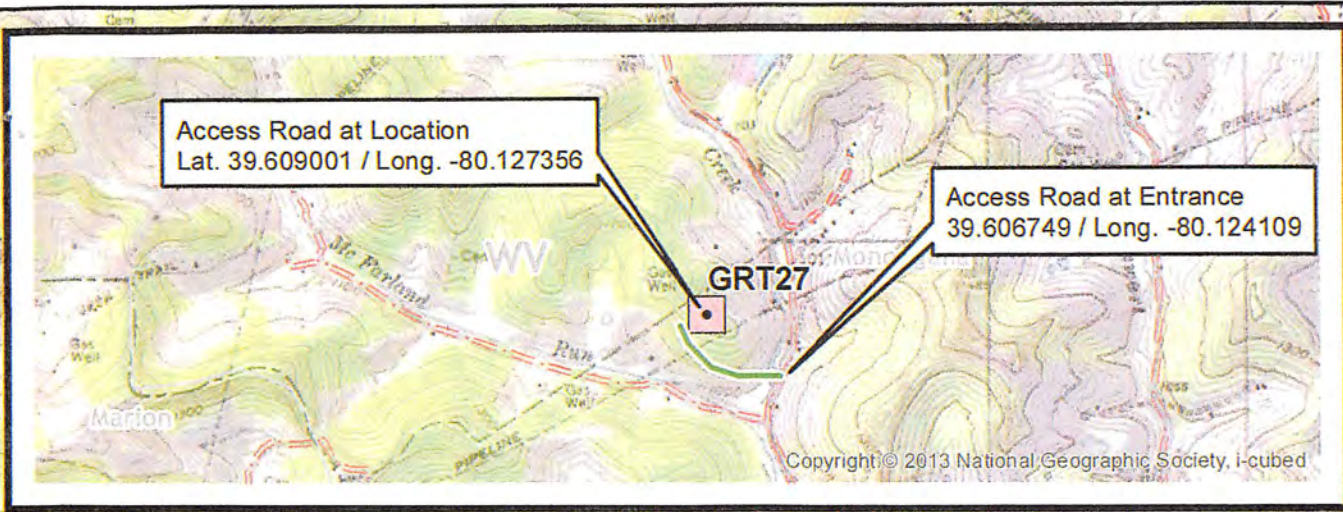
Received  
 Office of Oil & Gas  
 MAR 15 2016

  
 EQT Production  
 Permitting Supervisor  
 Title  
 2-24-16  
 Date

Date Prepared:

February 17, 2016

  
 WV Oil and Gas Inspector  
 Inspector  
 Title  
 3/11/2016  
 Date



**Legend**

Horizontal PUD Locations	Access Routes	Railroads	College	Law Enforcement
Safety Buffer	Highways	Counties	Fire Department	Church
LANDMARKS	Interstates	Hospital	Hospital	School
Access Route	Major Roads	Streets		

**EQT**

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

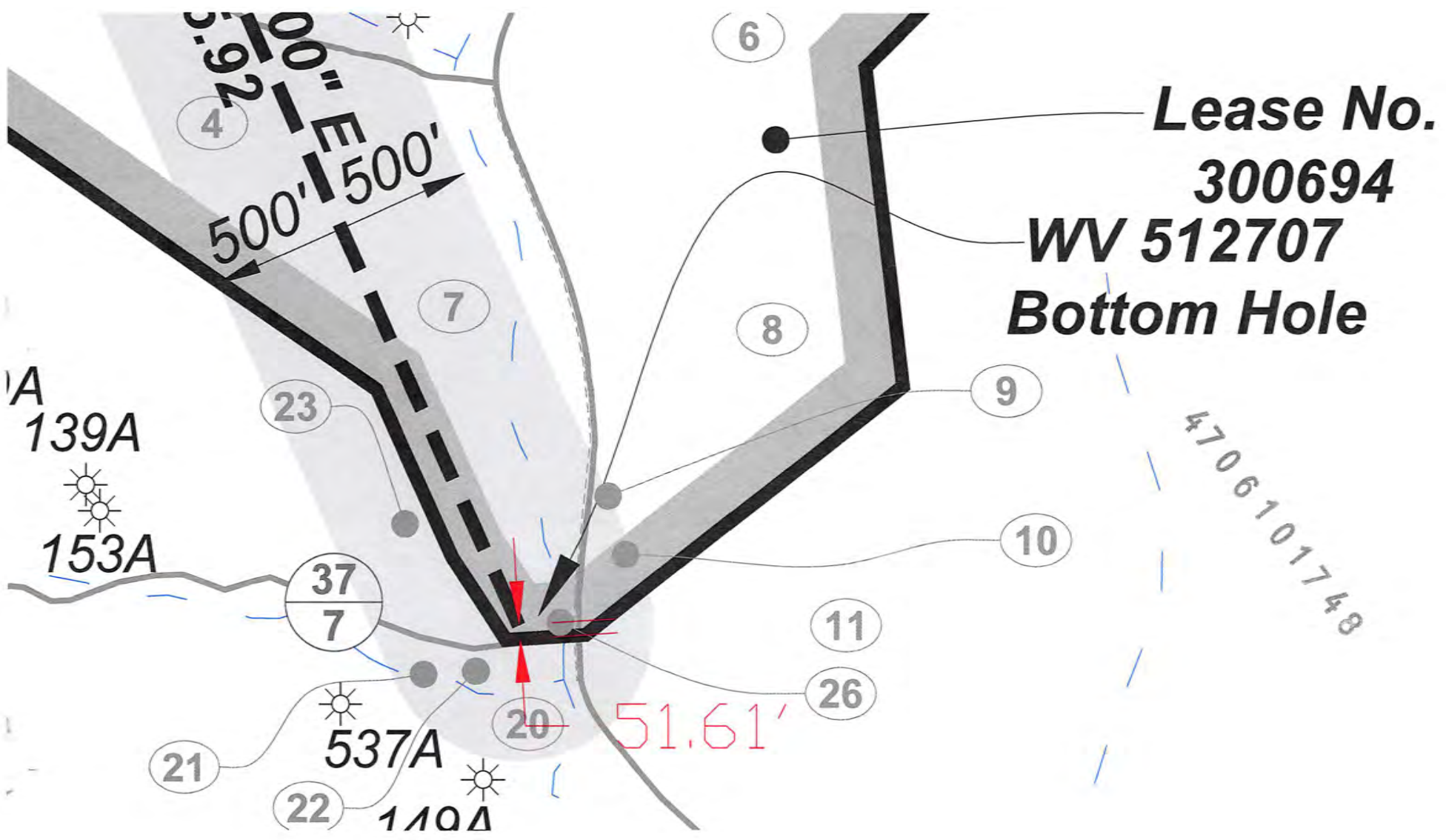
**Site Safety Plan**

**GRT27**  
One Mile Safety Buffer  
Monongalia & Marion County, WV

DISCLAIMER  
ALL INFORMATION DEPICTED ON THIS MAP PROVIDED BY EQT (SAID TERM SHALL MEAN EQT PRODUCTION OR EQT MIDSTREAM, DEPENDING ON WHICH EQT ENTITY PROVIDED THE MAP) IS FOR INFORMATION PURPOSES ONLY AND SHALL BE TREATED AS CONFIDENTIAL INFORMATION AND SHALL ONLY BE USED FOR THE SOLE PURPOSE FOR WHICH IT WAS PROVIDED. ANY OTHER USE OF THIS MAP OR THE INFORMATION INCLUDED THEREON IS STRICTLY PROHIBITED. THE EXACT LOCATION OF THE FACILITIES INCLUDING BUT NOT LIMITED TO WELLS, PIPELINES, STRUCTURES, FACILITIES, LEASE BOUNDARIES OR ANY OTHER INFORMATION SHOWN ON THIS MAP SHALL NOT BE RELIED UPON FOR THE SPECIFIC LOCATION OF THE FACILITIES, AND THE PARTIES AGREE THAT THE INFORMATION SHOWN ON THE MAP MAY NOT HAVE BEEN PLACED ON THE MAP USING SURVEY LINES OR GPS COORDINATES. EQT MAKES NO EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF THE MAP OR THE INFORMATION SHOWN THEREON. THE SPECIFIC LOCATION OF ANY OF THE INFORMATION, INCLUDING ANY WELL, PIPELINE, STRUCTURE, FACILITY OR LEASE BOUNDARY SHOULD BE DETERMINED BY A FIELD SURVEY PERFORMED BY A LICENSED SURVEYOR UPON CONSULTATION WITH EQT. THIS MAP MAY NOT BE COPIED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PARTY IN PAPER OR ELECTRONIC FORMAT WITHOUT

*MSK 3/11/2016*

04/29/2016



**Lease No.  
300694  
WV 512707  
Bottom Hole**

**A  
139A  
153A**

**37  
7  
537A  
21  
22  
110Δ**

**51.61'**

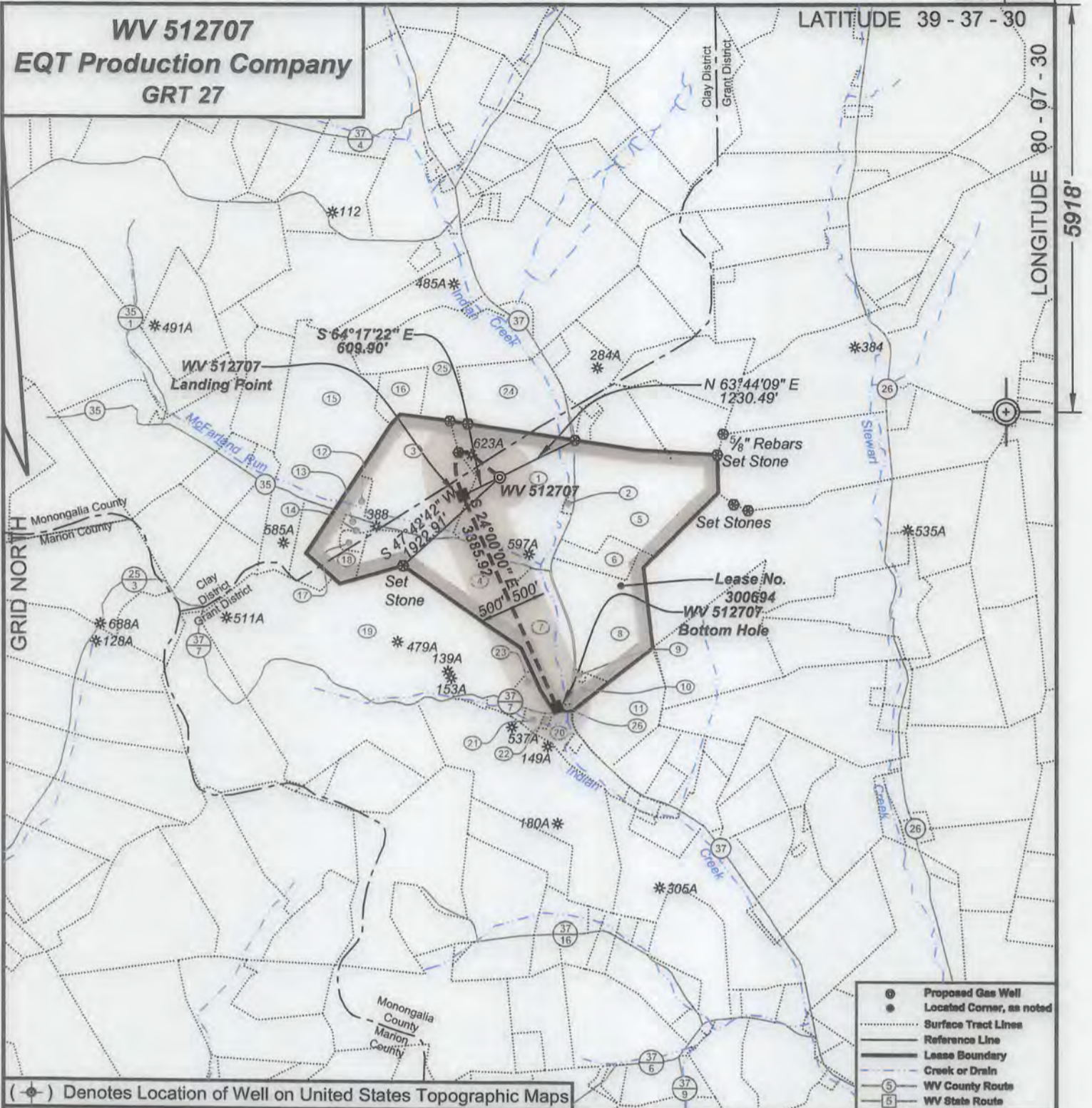
**4706101748**

731'

LATITUDE 39 - 37 - 30

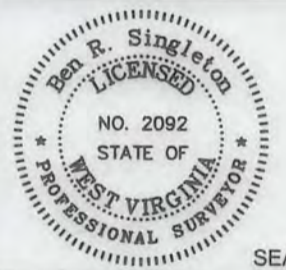
LONGITUDE 80 - 07 - 30  
5918'

**WV 512707**  
**EQT Production Company**  
**GRT 27**



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

*Ben R. Singleton*  
P.S. 2092



FILE NO: 138-20-C-14  
DRAWING NO: 138-14 GRT27 H2.dwg  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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



DATE: February 17 20 16  
OPERATOR'S WELL NO. WV 512707  
API WELL NO  
47 - 061 - 01748 WGA  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: Existing 1229' Proposed 1216' WATERSHED Indian Creek QUADRANGLE: Grant Town  
DISTRICT: Grant COUNTY: Monongalia  
SURFACE OWNER: Bernard D. Pratt ACREAGE: 68.384  
ROYALTY OWNER: Wilma Ruth Goodwin, et al. LEASE NO: 300694 ACREAGE: 335  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,524'

04/29/2016

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

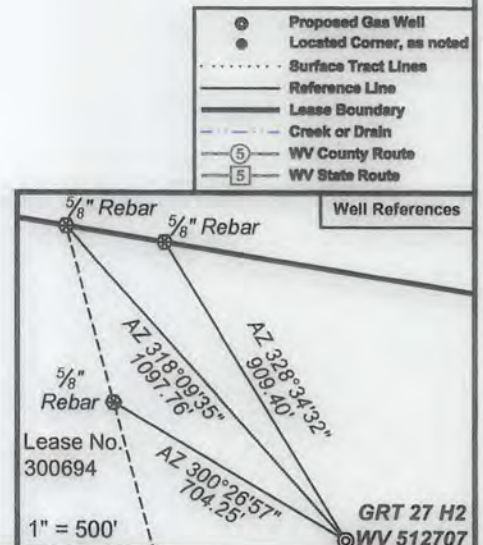
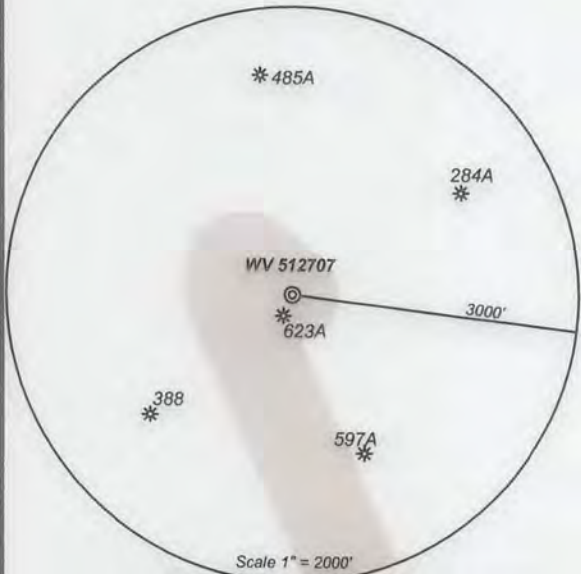
**WV 512707**  
**EQT Production Company**  
**GRT 27**

Tract I.D.	Tax Map No.	Parcel No.	District	Surface Tract Owner	Acres
1	10	01	Grant	Bernard D. Pratt	68.384
2	10	5.1	Grant	Bernard D. Pratt	0.91
3	9	01	Grant	Michael Scott Page	45.0
4	10	02	Grant	David R. Murray	36.5
5	10	05	Grant	William H. & Louise Leister	62.056
6	10	4.1	Grant	Frank M. & Jane B. Smith	10.04
7	9	03	Grant	Linda Wilson	2.0
8	10	04	Grant	Clifford & Earl King	43.51
9	17	2.3	Grant	Consolidation Coal Company	0.50
10	17	2.2	Grant	William B. Bright	2.91
11	17	2.1	Grant	Paul O. Eddy	32.61
12	9	02	Grant	Michael Scott Page	5.00
13	9	03	Grant	Linda Wilson	2.00
14	9	04	Grant	Linda Wilson	0.04
15	24	50	Clay	Roy D. & Judith Kay Murray	85.50
16	24	56	Clay	Jack J. Starsick	10.81
17	9	05	Grant	Linda Wilson	1.86
18	9	06	Grant	Virginia M. H	16.00
19	17	23.16	Grant	Cameron C. Plum, et al.	148.10
20	17	23.9	Grant	James H. & Mary Ann Harmon	3.10
21	17	23.10	Grant	Robert D. Tomago Jr.	1.26
22	17	23.13	Grant	Robert A. & Myrtle R. Forquer	0.808
23	17	1.1	Grant	Rickey C. & Donna J. Adkins	3.13
24	23	23	Clay	Philip A. Starsick	38.00
25	23	22.1	Clay	Wade Irrevocable Family Trust	44.34
26	17	02	Grant	Gary R. & Heather S. Vangilder	0.125

**GRT 27**  
H1, 512706  
H2, 512707  
H3, 512708

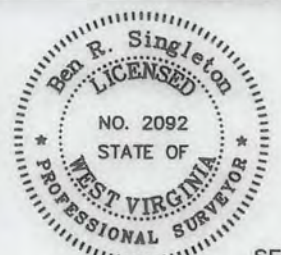
WV 512707 coordinates:  
NAD 27 N: 404,499.26 E: 1,823,174.39  
NAD 27 Lat: 39.808890 Long: -80.127613  
NAD 83 UTM N: 4,384,722.01 E: 574,907.93  
WV 512707 Landing Point coordinates:  
NAD 27 N: 404,234.67 E: 1,822,624.87  
NAD 27 Lat: 39.606153 Long: -80.129558  
NAD 83 UTM N: 4,384,638.60 E: 574,741.84  
WV 512707 Bottom Hole coordinates:  
NAD 27 N: 401,141.62 E: 1,824,002.14  
NAD 27 Lat: 39.599697 Long: -80.124562  
NAD 83 UTM N: 4,383,703.21 E: 575,177.17

West Virginia Coordinate System of 1927 (North Zone) based upon Differential GPS Measurements.  
Plat orientation, corner and well ties are based upon the grid north meridian.  
Well location references are based upon the grid north meridian.  
UTM coordinates are NAD83, Zone 17, Meters.



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

*Ben R. Singleton*  
P.S. 2092



FILE NO: 138-20-C-14  
DRAWING NO: 138-14 GRT27 H2.dwg  
SCALE: 1" = 2000'  
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PROVEN SOURCE OF ELEVATION: NGS CORS Station



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STATE COUNTY PERMIT

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DISTRICT: Grant COUNTY: Monongalia  
SURFACE OWNER: Bernard D. Pratt ACREAGE: 68.384  
ROYALTY OWNER: Wilma Ruth Goodwin, et al. LEASE NO: 300694 ACREAGE: 335  
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 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,524'

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

04/29/2016

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

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

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Attached				

4708101740

**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: Victoria J. Roark  
 Its: Permitting Supervisor

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Office of Oil and Gas  
FEB 20 2016

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>300694</u>	<u>Wilma Ruth Goodwin, et al. (current royalty owner)</u>		1/8 Min Pd	
	John J. Musgrave, et al. (original Lessor)	Hope Natural Gas Company		DB141/84
	Hope Natural Gas Company	Consolidated Gas Supply Corporation		DB 633/144
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corp.		LB 66A/69
	Consolidated Gas Transmission Corp.	CNG Transmission Corporation		CB 13/151 (Wetzel)
	CNG Transmission Corp.	Eastern States Oil & Gas, Inc.		LB 76A/232
	Eastern States Oil & Gas, Inc.	Blazer Energy		CB 12/253
	Blazer Energy	Eastern States Oil & Gas, Inc.		CB 12/259
	Eastern States Oil & Gas, Inc.	Equitable Production - Eastern States Oil & Gas		CB 13/14
	Equitable Production - Eastern States Oil & Gas	Equitable Production Company		CB 13/14
	Equitable Production Company	EQT Production Company		CB 13/14

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Office of Oil and Gas

FEB 29 2016

WV Department of  
Environmental Protection

04/29/2016



February 22, 2016

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

Re: GRT27 well pad, well numbers 512706, 512707, 512708, 513693  
Grant District, Monongalia County

4706101748

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. 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.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki L'.

Vicki Roark  
Permitting Supervisor-WV



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

Date of Notice Certification: \_\_\_\_\_

API No. 47- 061 - \_\_\_\_\_  
Operator's Well No. 512707 \_\_\_\_\_  
Well Pad Name: GRT27 \_\_\_\_\_

**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>574,907.92</u>
County:	<u>Monongalia</u>		Northing:	<u>4,384,722.01</u>
District:	<u>Grant</u>	Public Road Access:	<u>RT 250</u>	
Quadrangle:	<u>Grant Town</u>	Generally used farm name:	<u>Bernard D Pratt</u>	
Watershed:	<u>Indian 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.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

\*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or  NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or  NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or  NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

**OOG OFFICE USE ONLY**

- RECEIVED/  
NOT REQUIRED
- RECEIVED
- RECEIVED/  
NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

**Required Attachments:**

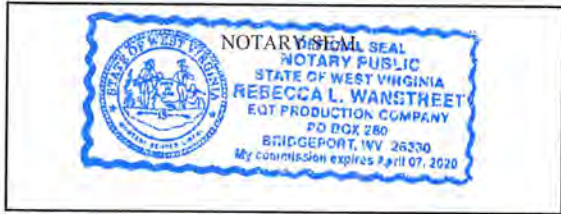
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

Oil and Gas  
FEB 29 2016  
04/29/2016

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:	<u>EQT Production Company</u>	Address:	<u>115 Professional Place PO Box 280</u>
By:	<u>Victoria J. Roark</u>		<u>Bridgeport WV 26330</u>
Its:	<u>Permitting Supervisor</u>	Facsimile:	<u>304-848-0041</u>
Telephone:	<u>304-848-0076</u>	Email:	<u>vroark@eqt.com</u>



Subscribed and sworn before me this 24 day of February 2016.  
Rebecca L. Wanstreet Notary Public  
 My Commission Expires 4-7-20

**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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

4706101740

RECEIVED  
 Office of Oil and Gas  
 FEB 29 2016  
 W.V. Department of Environmental Protection  
 04/29/2016

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: 2/29/16 Date Permit Application Filed: 2/29/16

Notice of:

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

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

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

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval 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 method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well 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; (2) The owners of 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 be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or 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 seams; (4) The owners of 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 be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well 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 this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, 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 notice to a landowner, 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 Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

SURFACE OWNER(s)

Name: Bernard D Pratt  
 Address: 1245 Hagans Rd  
 Core WW 26541  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Bernard D Pratt  
 Address: 1245 Hagans Rd  
 Core WW 26541  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: Bernard D Pratt  
 Address: 1245 Hagans Rd  
 Core WW 26541

COAL OWNER OR LESSEE

Name: See Attached  
 Address: \_\_\_\_\_

COAL OPERATOR

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

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

Name: See Attached  
 Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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

\*Please attach additional forms if necessary

47061-01743

RECEIVED  
Office of Oil and Gas

FEB 29 2016

West Virginia Department of Environmental Protection

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> 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).

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**Well Location Restrictions**

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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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FEB 29 2016

Office of Oil and Gas  
WV Department of  
Environmental Protection

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

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

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

RECEIVED  
Office of Oil and Gas  
FEB 29 2016  
WV Department of  
Environmental Protection

04/29/2016

**Notice is hereby given by:**

Well Operator: EQT Production Company  
Telephone: 304-848-0076  
Email: vroark@eqt.com

Address: 115 Professional Place PO 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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

*[Handwritten Signature]*



Subscribed and sworn before me this 22 day of February, 2016.

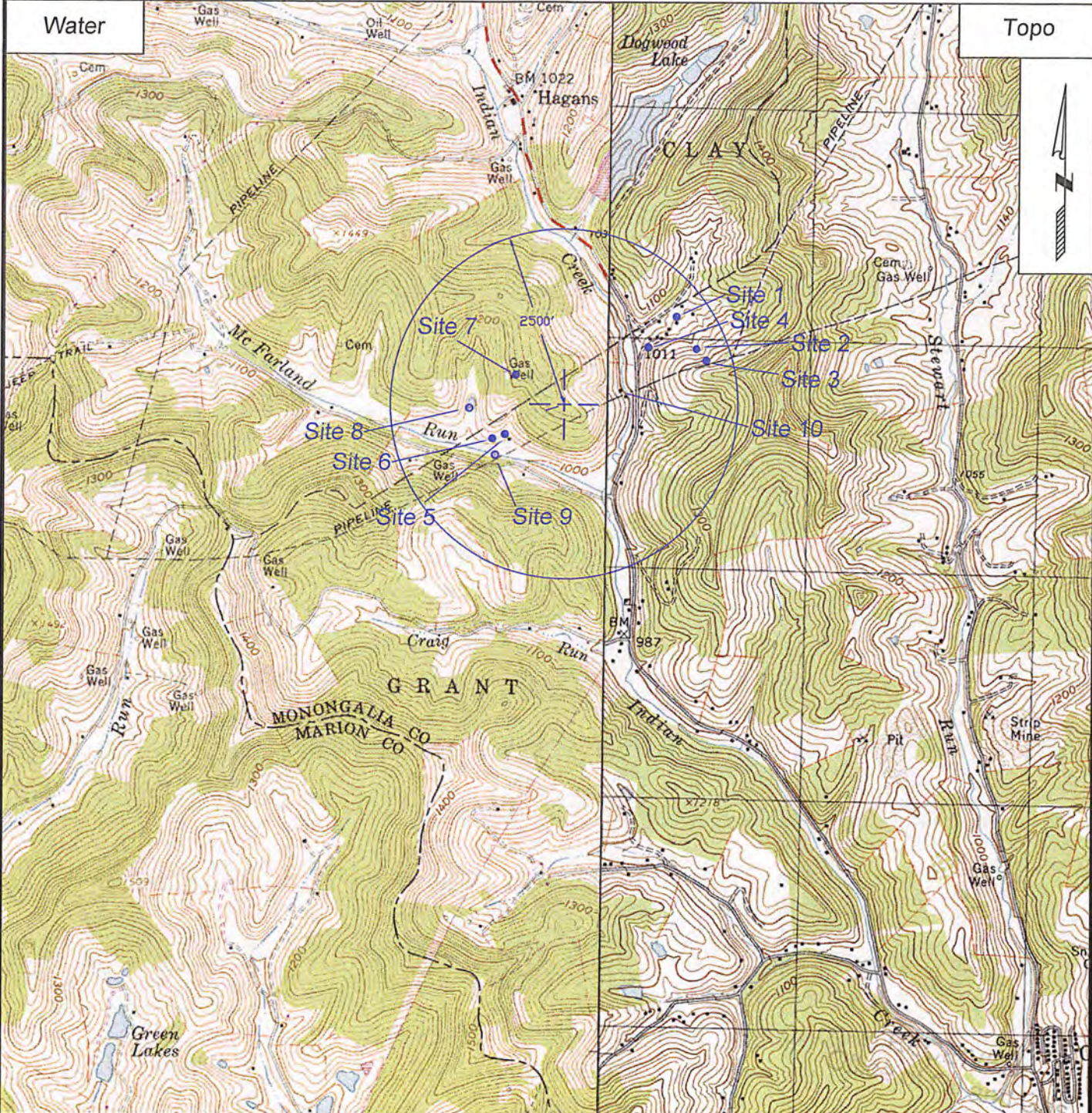
Rebecca L. Wanstreet Notary Public

My Commission Expires 4-7-20

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RECEIVED  
Office of Oil and Gas  
FEB 29 2016  
WV Department of  
Environmental Protection

Topo Quad: Grant Town & Rivesville 7.5' Scale: 1" = 2000'  
 County: Monongalia Date: February 23, 2016  
 District: Clay & Grant Project No: GRT 27 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

FEB 29 2016



**Surface Owners:**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

**Surface Owners (Road or other Disturbance):**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

**Surface Owners (Pits or Impoundments):**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

**\*\*\*Bernard D. Pratt's receipt was lost in transit to the post office.  
Attached you will find a receipt from the post office to prove maili**

Bernard Pratt

BRIDGEPORT  
205 S VIRGINIA AVE  
BRIDGEPORT  
WV

263309998  
5510560098

02/26/2016 (800)275-8777 12:57 PM

Product Description	Sale Qty	Final Price
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Prepaid Mail	1	
(Weight:0 lbs. 8.30 oz.)		
(Destination:MAIDSVILLE, WV 26541)		
(Acceptance Date:02/26/2016 12:57:21)		
(Label #:70150640000334738603)		

Total		\$0.00
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\*\*\*\*\*  
BRIGHTEN SOMEONE'S MAILBOX. Greeting cards available for purchase at select Post Offices.  
\*\*\*\*\*

Order stamps at usps.com/shop or call 1-800-Stamp24. Go to usps.com/clicknship to print shipping labels with postage. For other information call 1-800-ASK-USPS.

\*\*\*\*\*  
Get your mail when and where you want it with a secure Post Office Box. Sign up for a box online at usps.com/poboxes.  
\*\*\*\*\*

All sales final on stamps and postage  
Refunds for guaranteed services only  
Thank you for your business

HELP US SERVE YOU BETTER

TELL US ABOUT YOUR RECENT  
POSTAL EXPERIENCE

Go to:  
<https://postalexperience.com/Pos>

840-5250-0594-001-00004-04052-02

or scan this code with  
your mobile device:



or call 1-800-410-7420.

YOUR OPINION COUNTS

04/29/2016

Bill #: 840-52500594-1-404052-2

**Coal Owner(s):**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

**\*\*\*Bernard D. Pratt's receipt was lost in transit to the post office.  
Attached you will find a receipt from the post office to prove mailing**

CONSOL Mining Company, LLC  
Engineering Operations and Support Dept.  
Coal, CNX Center  
1000 CONSOL Energy Dr.  
Canonsburg, PA 15317-6506  
ATTN: Ryan Arp

CNX Gas Co., LLC  
Engineering Operations and Support Dept.  
Coal, CNX Center  
1000 CONSOL Energy Dr.  
Canonsburg, PA 15317-6506  
ATTN: Ryan Arp

Murray American Energy, INC OH  
c/o Murray Energy Corporation  
46226 National Rd.  
St. Clairsville, OH 43950  
ATTN: Alex O'Neill

Murray American Energy, INC WV  
c/o Murray Energy Corporation  
1 Bridge Street  
Monongah, WV 26554  
ATTN: Troy Freels

4700101744

Bernard Pratt

BRIDGEPORT  
205 S VIRGINIA AVE  
BRIDGEPORT  
WV  
263309998  
5510560098

02/26/2016 (800)275-8777 12:57 PM

Product Description	Sale Qty	Final Price
Prepaid Mail	1	
(Weight:0 lbs. 8.30 oz.)		
(Destination:MAIDSVILLE, WV 26541)		
(Acceptance Date:02/26/2016 12:57:21)		
(Label #:70150640000334738603)		
Total		\$0.00

\*\*\*\*\*  
BRIGHTEN SOMEONE'S MAILBOX. Greeting cards available for purchase at select Post Offices.  
\*\*\*\*\*

Order stamps at usps.com/shop or call 1-800-Stamp24. Go to usps.com/clicknship to print shipping labels with postage. For other information call 1-800-ASK-USPS.

\*\*\*\*\*  
Get your mail when and where you want it with a secure Post Office Box. Sign up for a box online at usps.com/poboxes.  
\*\*\*\*\*

All sales final on stamps and postage  
Refunds for guaranteed services only  
Thank you for your business

HELP US SERVE YOU BETTER

TELL US ABOUT YOUR RECENT  
POSTAL EXPERIENCE

Go to:  
<https://postalexperience.com/Pos>

840-5250-0594-001-00004-04052-02

or scan this code with  
your mobile device:



or call 1-800-410-7420.

YOUR OPINION COUNTS

Bill #: 840-52500594-1-404004  
Clerk: 04/29/2016

**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:** 02/04/2016      **Date Permit Application Filed:** 02/14/2016

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

HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Bernard D. Pratt  
Address: 1245 Hagans Rd.  
Core WW 26541

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

**Notice is hereby given:**

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

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>574,907.92</u>
County:	<u>Monongalia</u>		Northing:	<u>4,384,722.01</u>
District:	<u>Grant</u>	Public Road Access:	<u>RT 250</u>	
Quadrangle:	<u>Grant Town</u>	Generally used farm name:	<u>Bernard D Pratt</u>	
Watershed:	<u>Indian 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 57<sup>th</sup> 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 PO 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 PO 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).

**Surface Owners:**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

**Surface Owners (Road or other Disturbance):**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

**Surface Owners (Pits or Impoundments):**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

7015 0640 0003 3473 8757

<b>U.S. Postal Service™ CERTIFIED MAIL® RECEIPT</b> <i>Domestic Mail Only</i>	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
Certified Mail Fee \$ _____	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ _____	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ _____	
Total Postage and Fees \$ _____	
Sent to Bernard D. Pratt Street and Apt. No., or PO Box No. 1245 Hagans Rd. City, State, ZIP+4® Core WV 26541	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

GR127  
NOI

4206705700

RECEIVED  
OFFICE OF CIVIL RIGHTS  
FEB 29 2016  
WV DEPT OF  
TRANSPORTATION

**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: 2/29/10 Date Permit Application Filed: 2/29/10

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: <u>Bernard D Pratt</u>	Name: _____
Address: <u>1245 Hagans Rd.</u>	Address: _____
<u>Core WV 26541</u>	_____

**Notice is hereby given:**

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

State: <u>WV</u>	UTM NAD 83 Easting: <u>574,907.92</u>
County: <u>Monongalia</u>	Northing: <u>4,384,722.01</u>
District: <u>Grant</u>	Public Road Access: <u>RT 250</u>
Quadrangle: <u>Grant Town</u>	Generally used farm name: <u>Bernard D Pratt</u>
Watershed: <u>Indian Creek</u>	

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> 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: <u>EQT Production Company</u>	Address: <u>115 Professional Place PO Box 280</u>
Telephone: <u>304-848-0076</u>	<u>Bridgeport WV 26330</u>
Email: <u>vroark@eqt.com</u>	Facsimile: <u>304-848-0041</u>

**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).

**Surface Owners:**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

**Surface Owners (Road or other Disturbance):**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

**Surface Owners (Pits or Impoundments):**

Bernard D. Pratt  
1245 Hagans Rd.  
Core, WV 26541

**\*\*\*Bernard D. Pratt's receipt was lost in transit to the post office.  
Attached you will find a receipt from the post office to prove maili**

*B. Pratt*

BRIDGEPORT  
205 S VIRGINIA AVE  
BRIDGEPORT  
WV

263309998  
5510560098

02/26/2016 (800)275-8777 12:57 PM

Product Description	Sale Qty	Final Price
---------------------	----------	-------------

Prepaid Mail	1	
(Weight:0 lbs. 8.30 oz.)		
(Destination:MAIDSVILLE, WV 26541)		
(Acceptance Date:02/26/2016 12:57:21)		
(Label #:70150640000334738603)		

Total		\$0.00
-------	--	--------

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\*\*\*\*\*

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or call 1-800-410-7420.

YOUR OPINION COUNTS

04/29/2016



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

**Reissued February 2, 2016**

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 **GRT 27** Pad Site, Monongalia County

512706 GRT 27 H1  
513693 GRT 27 H4

**512707 GRT 27 H2**  
513694 GRT 27 H5

512708 GRT 27 H3  
513695 GRT 27 H6

Dear Mr. Martin,

This well site will be accessed from Permit #04-2015-0366 issued to EQT Production Company for access to the State Road. The well site is located off of Monongalia County Route 37 SLS. The approved DOH permit must be received before construction of or any use of this access to the roadway.

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

Very Truly Yours,

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

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

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

6700101740

<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



WW-6A7  
(6-12)

OPERATOR: EQT Production

WELL NO: 512706, 512707, 512708, 513693

PAD NAME: GRT27

REVIEWED BY: \_\_\_\_\_

SIGNATURE: Keely Cunningham

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

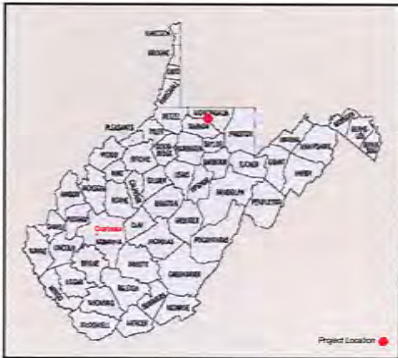
6700101748

#### Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR  
 DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR  
 DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR  
 DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR  
 Surface Owner Waiver and Recorded with County Clerk, OR  
 DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR  
 Surface Owner Waiver and Recorded with County Clerk, OR  
 DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR  
 Surface Owner Waiver and Recorded with County Clerk, OR  
 DEP Variance and Permit Conditions

RECEIVED  
Office of Oil and Gas  
FEB 29 2016  
NY Department of  
Environmental Conservation

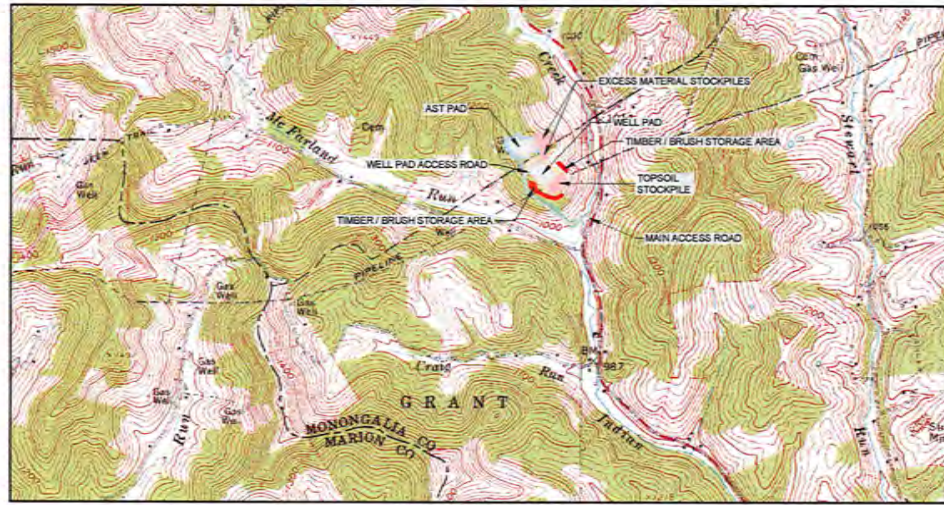
04/29/2016



# GRT 27

## FINAL SITE DESIGN, CONSTRUCTION PLANS, & EROSION & SEDIMENT CONTROL PLANS EQT PRODUCTION COMPANY

West Virginia Coordinate System of 1983  
State Plane Grid North  
Elevations NAVD83  
Established By Survey Grade GPS



**AFFECTED TAX PARCEL:**  
CLAY & GRANT DISTRICTS  
MONONGALIA COUNTY, WV

Bernard D. & Bonnie M. Pratt  
68.5 Acres

**AFFECTED PROPERTIES:**  
WDDOH RW  
**SITE DISTURBANCE**

MAIN ACCESS ROAD = 0.12 ACRES  
TOTAL DISTURBANCE = 0.12

Bernard D. & Bonnie M. Pratt  
TM 10 PCL 01  
DB 909 PG 32  
PARCEL 2  
68.5 Acres

**SITE DISTURBANCE**  
MAIN ACCESS ROAD = 7.44 ACRES  
WELL PAD = 5.58 ACRES  
AST PAD = 5.89 ACRES  
WELL PAD ACCESS ROAD = 0.21 ACRES  
TOP SOIL STOCKPILE = 2.39 ACRES  
EXCESS MATERIAL STOCKPILES = 3.23 ACRES  
TIMBER AND BRUSH STORAGE = 2.20 ACRES  
TOTAL DISTURBANCE = 26.83 ACRES  
TOTAL WOODED AREA = 22.77 ACRES

FLOODPLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	YES
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	YES
HEC-RAS STUDY COMPLETED:	YES
FLOODPLAIN SHOWN ON DRAWINGS:	YES
FIRM MAP NUMBER(S) FOR SITE:	54017C0225C
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:	0.64

**WELL LEGEND**

512706- LAT: 39.608997 / LONG. -80.127449
512707- LAT: 39.608971 / LONG. -80.127407
512708- LAT: 39.608945 / LONG. -80.127366
513693- LAT: 39.608920 / LONG. -80.127324
513694- LAT: 39.608894 / LONG. -80.127283
513695- LAT: 39.608868 / LONG. -80.127242
516665- LAT: 39.608842 / LONG. -80.127200
516666- LAT: 39.608816 / LONG. -80.127159

**APPROVED  
WVDEP OOG**

2/21 4/20/2016

SITE LOCATIONS		
WELL NO.	EASTING	NORTHING
Center of Well No. 1	12 805094	39 727217
Center of Well No. 2	12 815511	39 728317
Center of Well No. 3	12 815513	39 728318
SW 1/400 Meter Square	12 805129	39 728216




**Design Certification**  
The drawings, construction notes, and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas §35-4-21.  
The information reflects two AST pads. The computed above grade storage volume is less than 15 acre feet, filling method pumped, tanks will be contained.  
Hornor Brothers Engineers make no certifications relating to the design, construction or materials associated with the Above Ground Storage Tanks (AST's).

**Project Contacts**  
Keeley Cunningham - EQT Production Company  
304-648-0095 Off.  
**Surveyor & Engineer**  
Ben Singleton - PE - Allegheny Surveys Inc.  
304-649-8606 Off.  
Tom Conahers - PE, PS - Hornor Brothers Engineers  
304-624-6445 Office

SHEET INDEX	
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SCHEDULE OF QUANTITIES	3
CONSTRUCTION, GENERAL AND E&S NOTES	4
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WELL PAD ACCESS ROAD PROFILE & CROSS SECTIONS	15
MAIN ACCESS ROAD PROFILE & CROSS SECTIONS	16-19
CONSTRUCTION DETAILS	20-24
RECLAMATION PLANS	25-28

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



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

  
Allegheny Surveys Inc.  
P.O. Box 439  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



  
Hornor Bros. Engineers  
Shoring, Bro. Environmental and  
Civil, Mining, Environmental and  
Consulting Engineering  
Hornor Bros. Engineers, Inc. 1001 17th Street  
Martinsburg, WV 26150

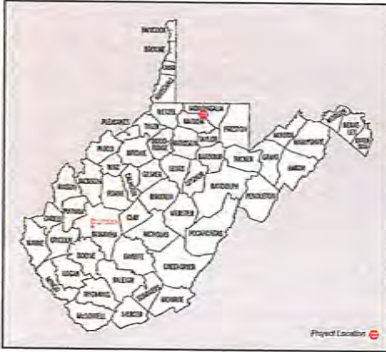


THIS DOCUMENT  
PREPARED FOR:  
EQT PRODUCTION  
COMPANY

COVER SHEET / LOCATION MAP  
EQT GRT 27  
WELL PAD SITE  
CLAY & GRANT DISTRICTS  
MONONGALIA COUNTY, WV

DATE	REVISIONS	Date:
01/05/2016	ADDED TWO WELL NUMBERS	12/17/2015
3/7/2016	ADDED HOUSE TO STARSICK PROPERTY	Scale: AS SHOWN
		Designed By: TRC
		File No: 16012 (EQT) (15)
		Page: 1 of 28

4706101748



# GRT 27

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

### EQT PRODUCTION COMPANY

West Virginia Coordinate System of 1983  
 State Plane Grid North  
 Elevation: NAVD83  
 Established by Survey Grade GPS

**Allegheny Surveys Inc.**  
 P.O. Box 438  
 237 Birch River Road  
 Birch River, WV 26610  
 304-649-6606



**Hornor Bros. Engineers**  
 Survey, Engineering and  
 Civil, Mining, Environmental and  
 Consulting Engineers  
 Hornor, Inc., 1000 1st St., Parkersburg, WV 26101



THIS DOCUMENT  
 PREPARED FOR:  
 EQT PRODUCTION  
 COMPANY

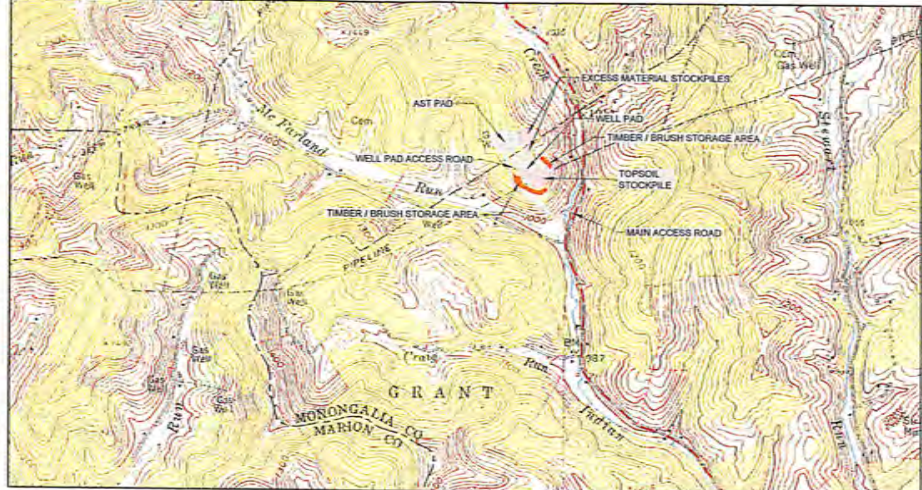
COVER SHEET / LOCATION MAP  
**EQT GRT 27**  
**WELL PAD SITE**  
 CLAY & GRANT DISTRICTS  
 MONONGALIA COUNTY, WV

DATE: 12/17/2015  
 REVISIONS: ADDED TWO WELL NUMBERS  
 DATE: 3/7/2016  
 ADDED HOUSE TO STARSICK PROPERTY

FLOODPLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	YES
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	YES
HEC-RAS STUDY COMPLETED	YES
FLOODPLAIN SHOWN ON DRAWINGS	YES
FIRM MAP NUMBER(S) FOR SITE	54017C0225C
ACREAGES OF CONSTRUCTION IN FLOODPLAIN	0.64

**WELL LEGEND**

512706-LAT: 39.608997 / LONG. -80.127449
512707-LAT: 39.608971 / LONG. -80.127407
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516665-LAT: 39.608842 / LONG. -80.127200
516666-LAT: 39.608816 / LONG. -80.127159



GRANT TOWN - PINEVILLE QUAD SHOWING MONONGALIA RIVER WATERSHED

SITE LOCATIONS	
ROAD #	COORDINATES
Center of Well Pad	39 608894 -80 127333
Center of 60,000 AST Pad	39 610501 -80 126837
Center of 40,000 AST Pad	39 611080 -80 126078
80 2'-0" Main Access	39 610709 -80 124209



**Design Certification**

The drawings, construction notes, and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules Division of Environmental Protection, Office of Oil and Gas §35-4-21.

The information reflects two AST pads. The computed above grade storage volume is less than 15 acm feet. Filling method pumped; tanks will be contained.

Hornor Brothers Engineers make no certifications relating to the design, construction or materials associated with the Above Ground Storage Tanks (ASTs).

**AFFECTED TAX PARCEL:**  
 CLAY & GRANT DISTRICTS  
 MONONGALIA COUNTY, WV  
 Bernard D. & Bonnie M. Pratt  
 68.5 Acres.

**AFFECTED PROPERTIES**  
**WOODCH RAW SITE DISTURBANCE**  
 MAIN ACCESS ROAD = 0.12 ACRES  
 TOTAL DISTURBANCE = 0.12

Bernard D. & Bonnie M. Pratt  
 TM 10 PCL 01  
 DB 906 PG 32  
 PARCEL 2  
 68.5 Acres  
**SITE DISTURBANCE**  
 MAIN ACCESS ROAD = 7.44 ACRES  
 WELL PAD = 5.58 ACRES  
 AST PAD = 5.89 ACRES  
 WELL PAD ACCESS ROAD = 0.21 ACRES  
 TOP SOIL STOCKPILE = 2.39 ACRES  
 EXCESS MATERIAL STOCKPILES = 3.23 ACRES  
 TIMBER AND BRUSH STORAGE = 2.20 ACRES  
 TOTAL DISTURBANCE = 26.83 ACRES  
 TOTAL WOODED AREA = 22.77 ACRES

**Project Contacts**  
 Keeley Cunningham - EQT Production Company  
 304-848-0095 Off

**Surveyor & Engineer**  
 Ben Singleton - PS - Allegheny Surveys Inc.  
 304-649-8605 Off

Tom Conners - PE, PS - Hornor Brothers Engineers  
 304-624-6445 Office

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**IT'S THE LAW!!**



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 Call before you dig.**

Received  
 Office of Oil & Gas  
 MAR 15 2016

4706101748

4706101740

# GRT 27 WELL PAD EXISTING CONDITIONS SITE PLAN

Received  
Office of Oil & Gas  
MAR 15 2016



All topographic information shown herein is based on aerial photography by Blue Mountain Aerial Mapping with a flight date of 4/12/2014



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

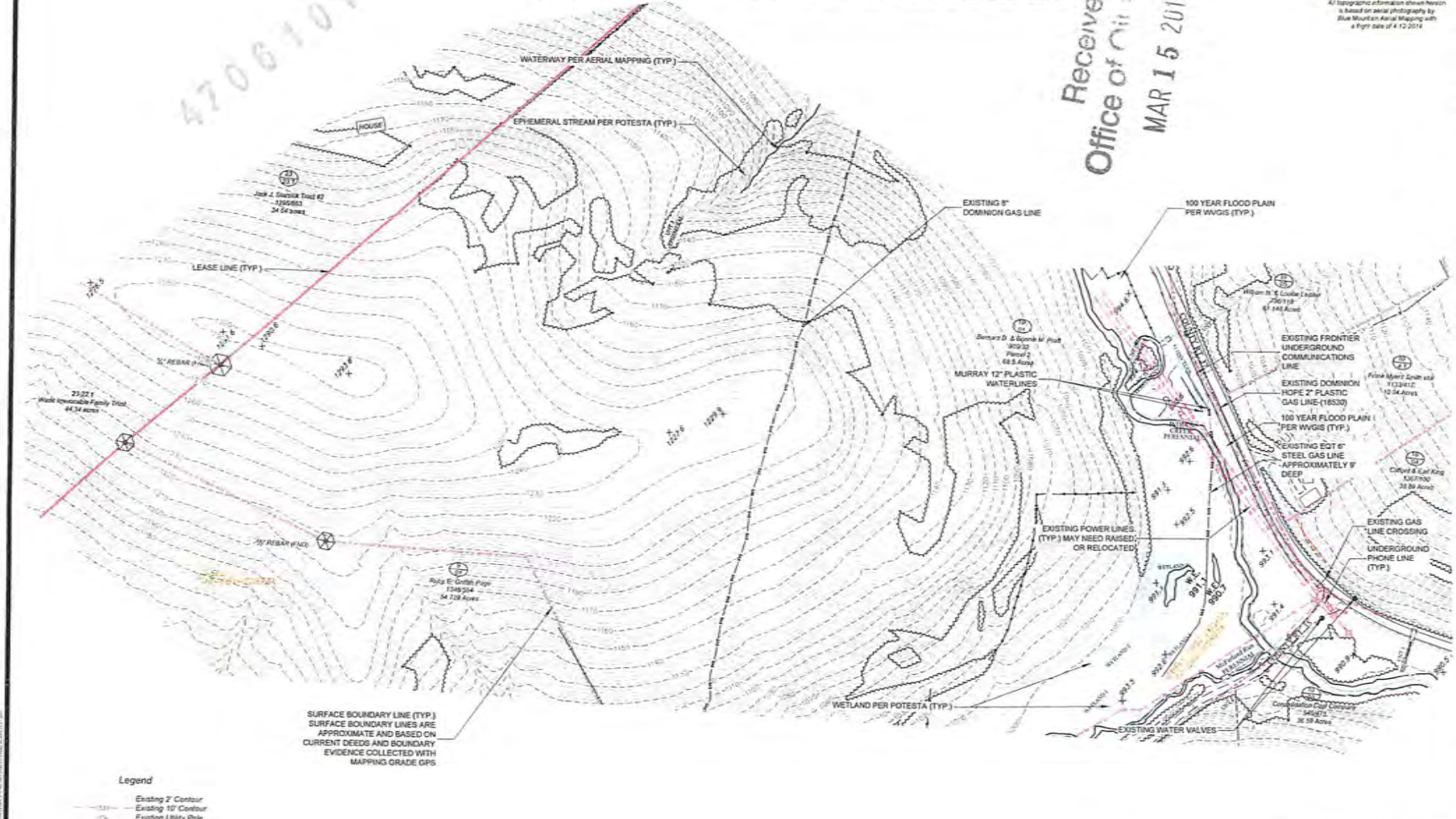


Hornor Bros. Engineers  
Inc.  
Survey, Mining, Environmental and  
Consulting Engineering and  
Construction Services  
10000 1st Ave. SE  
P.O. Box 1000  
Clayton, WV 26031



THIS DOCUMENT  
PREPARED FOR:  
EQT PRODUCTION  
COMPANY

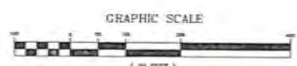
EXISTING CONDITIONS PLAN  
EQT GRT 27  
WELL PAD SITE  
CLAY & GRANT DISTRICTS  
MONONGALIA COUNTY, WV



SURFACE BOUNDARY LINE (TYP.)  
SURFACE BOUNDARY LINES ARE  
APPROXIMATE AND BASED ON  
CURRENT DEEDS AND BOUNDARY  
EVIDENCE COLLECTED WITH  
MAPPING GRADE GPS

Legend

- Existing 2' Contour
- Existing 10' Contour
- Existing Utility Pole
- Existing Overhead Utility
- Existing Underground Phone Line
- Existing Gas Line CL
- Existing Fence



MDK 3/8/2016

DATE	REVISIONS	Date: 12/17/2015
3/7/2016	ADDED HOUSE TO STARSICK PROPERTY	Scale 1"=100'
		Designed By: TDC
		File No: 1503000101
		Page: 2 of 26

4706101748

Schedule of Quantities		
EQT GRT-27 WELL PAD		
Item Description	UNIT	QUANTITY
<b>1. Clearing, Grubbing &amp; S Controls</b>		
A. Clearing & Grubbing	AC	22.77
B. 24" Silv Stock or Silv Fence	LF	4,697
C. Super Silv Fence	LF	75
D. Storm Wraps	LF	4,619
E. Slope Erosion Control Matting	SF	26,448
F. Perimeter Beem	LF	1,365
<b>2. Excavation (Cut Only)</b>		
A. Construction Entrance	EA	1
B. Well Pad	TONS	45,879
C. Well Pad Access Road	CY	429
D. Flow Back Pit	CY	0
E. Above Ground Storage Tank (AST) Pad (40k + 60k BBL)	CY	48,138
F. Main Access Road	CY	23,312
G. Topsoil	CY	17,053
H. Spoil	CY	33,702
I. Diversions Ditch (S)	LF	2,002
J. Roadside Ditch	LF	1,696
K. Erosion Control (Access Road)	TONS	178
1. Rip Rap	SF	0
2. Synthetic Matting (TRM)	SF	0
3. Jute Matting	SF	0
L. Drill Pad Sump	LF	312
1. 6" HDPE Sump Drain	EA	11
2. 24" Diameter HDPE Sump	EA	11
<b>3. Stone</b>		
A. 8" - 8" Rip Rap (Inlets/Outlets)	TONS	301
B. #3 Stone (Ditch Checks)	TONS	14
C. #3 Stone (Rock Drains)	TONS	0
<b>4. Aggregate Surfacing</b>		
A. Drill Pad Geotextile Fabric (Terra Tex HPG-17)	SF	14,534
B. Drill Pad 1" Minus Crusher Run Aggregate (2")	TONS	1,445
C. Drill Pad 8" Minus Crusher Run Aggregate (8")	TONS	5,779
D. Access Roads 1" Minus Crusher Run Aggregate (2")	TONS	578
E. Access Roads 8" Minus Crusher Run Aggregate (8")	TONS	2,311
F. Access Roads Geotextile Fabric (Terra Tex HPG-17)	SF	144
G. AST Pad 1" Minus Crusher Run Aggregate (2")	TONS	1,467
H. AST Pad 8" Minus Crusher Run Aggregate (8")	TONS	5,670
I. AST Pad Geotextile Fabric (Terra Tex HPG-17)	SF	11,976
<b>5. Flow Back Pit Liner - 60 mil</b>		
A. [Dne] 60 mil Layer	SF	0
B. 20 oz felt Under Layment	SF	0
<b>6. Completion Back Pit Liner - 60 mil</b>		
A. [Dne] 60 mil Layer	SF	0
B. 20 oz felt Under Layment	SF	0
<b>7. Road Culverts (4 Total)</b>		
A. 12" CMP OR HDPE (S)	LF	0
B. 15" CMP OR HDPE (S)	LF	105
C. 18" CMP OR HDPE (S)	LF	0
D. 24" CMP OR HDPE (S)	LF	35
<b>8. A. Hydro Seeding</b>		
	AC	11.17
<b>9. Fence and Gates</b>		
A. 6' Woven Wire Fence @ UNT - 4	LF	0
B. 48" Entry Swing Gate	EA	0
<b>10. Reclamation</b>		
	AC	5.28
<b>TOTAL</b>		

GRADING VOLUMES			
DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)
MAIN ACCESS ROAD	23,312	18,433	4,879
WELL PAD	45,879	20,758	25,121
ABOVEGROUND STORAGE TANK (AST) PAD (40k + 60k BBL)	48,138	39,601	8,537
WELL PAD ACCESS ROAD	429	64	365
EXCESS MATERIAL STOCKPILES	0	38,702	-38,702
TOPSOIL STOCKPILE	17,053	0	17,053
<b>TOTAL</b>	<b>134,811</b>	<b>117,758</b>	<b>17,053</b>

L.O.D. AREAS	
DESCRIPTION	AREAS (ACRES)
MAIN ACCESS ROAD	7.44
WELL PAD	5.58
ABOVEGROUND STORAGE TANKS (AST) PAD	5.89
WELL PAD ACCESS ROAD	0.21
TOP SOIL STOCKPILE	2.39
EXCESS MATERIAL STOCKPILES	3.23
TIMBER & BRUSH STORAGE	2.20
<b>TOTAL</b>	<b>26.95</b>
TOTAL WOODED AREA	22.77

The earthwork quantities provided are an estimate for consideration. The quantities shown may be greater or less than actually excavated. The engineer is not responsible for variances from the estimated quantities and does not certify to their accuracy.

GRADING FACTORS	
CUT SLOPE	2:1
FILL SLOPE	2:1
CUT SWELL FACTOR	1.05
TOP SOIL SWELL FACTOR	1.20
FILL SHRINK FACTOR	1.00
WELL PAD ELEVATION:	1216.00'

- NOTES**
- TOPSOIL QUANTITY FOR THIS SITE IS ESTIMATED AT A UNIFORM THICKNESS OF 1" OVER THE ENTIRE EXCAVATED AREA. ACTUAL QUANTITY MAY VARY.
  - AREAS RECEIVING JUTE MATTING AND SYNTHETIC MATTING (TRM) ARE TO BE SEEDED, LIMED AND FERTILIZED PRIOR TO INSTALLATION OF MATERIALS.
  - SITE (ACCESS ROAD) IS WITHIN THE 100 YEAR FLOOD PER FIRM PANEL 5401C0225C.
  - ALL PROPOSED SLOPES TO BE 2:1 EXCEPT WHERE NOTED.



**CONSTRUCTION NOTES:**  
 CONSTRUCTION OF ALL FILL EMBANKMENTS (INCLUDING SPOIL STOCKPILES) REQUIRE THE KEY BENCHES AND SIDEHILL BENCHES. (SEE DETAILS 24, 25 & 26 - SHEET 22)  
 ROAD SIDE DITCHES SHALL HAVE REQUIRED EROSION CONTROL MATTING APPLIED AS FOLLOWS:  
 GRADES 10% RIP-RAP  
 GRADES 6%-10% SYNTHETIC TRM  
 GRADES 0%-4% JUTE MATTING  
 AREAS RECEIVING JUTE MATTING AND SYNTHETIC MATTING (TRM) ARE TO BE SEEDED, LIMED AND FERTILIZED PRIOR TO INSTALLATION OF MATERIALS

DATE	REVISIONS	Date: 12/17/2015
		Scale: N/A
		Designed by: TBC
		Site No: 15-07-001
		Page: 1 of 26

MDK 3/8/2016



**Hornor Shreve Bros. Engineers**  
 Civil, Mining, Environmental and Consulting Engineering  
 1000 Main Street, Suite 200  
 Morgantown, WV 26501  
 (304) 848-6039



THIS DOCUMENT PREPARED FOR EQT GUTTERING LLC

SCHEDULE OF QUANTITIES / GRADING  
**EQT GRT 27 WELL PAD SITE**  
 WALKERSVILLE DISTRICT  
 MONONGALIA COUNTY, WV

4706101748

# GRT 27 WELL PAD OVERVIEW PLAN

Received  
Office of Oil & Gas  
MAR 15 2016



Allegheny Surveys, Inc.  
P. O. Box 439  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606

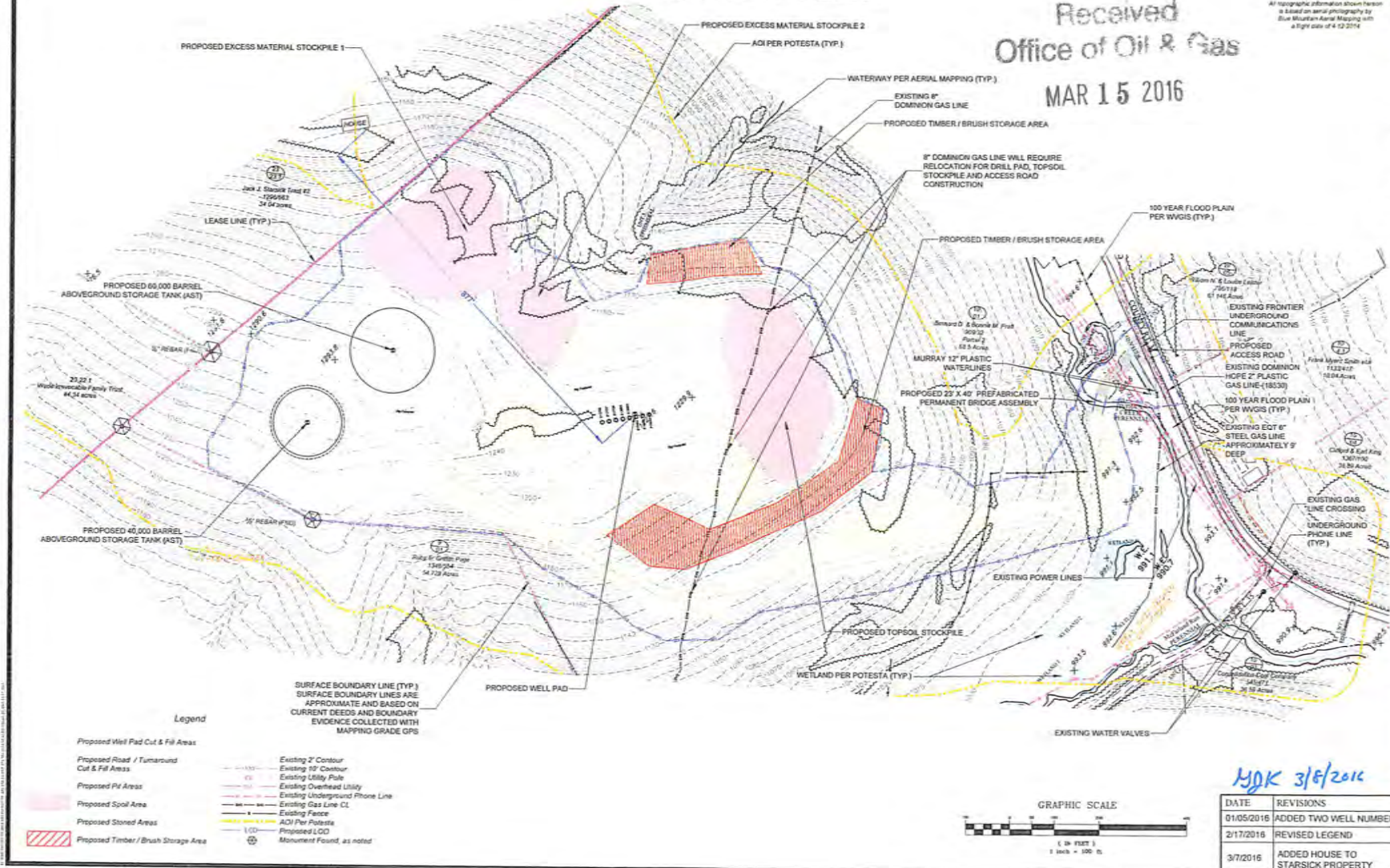


Horner Bros. Engineers  
3000 S. Main Street  
Martinsburg, WV 26151  
304-263-8888



THIS DOCUMENT  
PREPARED FOR  
EQT PRODUCTION  
COMPANY

OVERVIEW PLAN  
EQT GRT 27  
WELL PAD SITE  
CLAY & GRAN OILFIELD  
MORGANTHAU COUNTY, WV



4706101748

# GR27 WELL PAD FINAL DESIGN PLAN

MAR 15 2016

"EQT PRODUCTION COMPANY WILL OBTAIN ENCROACHMENT PERMITS (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES"



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



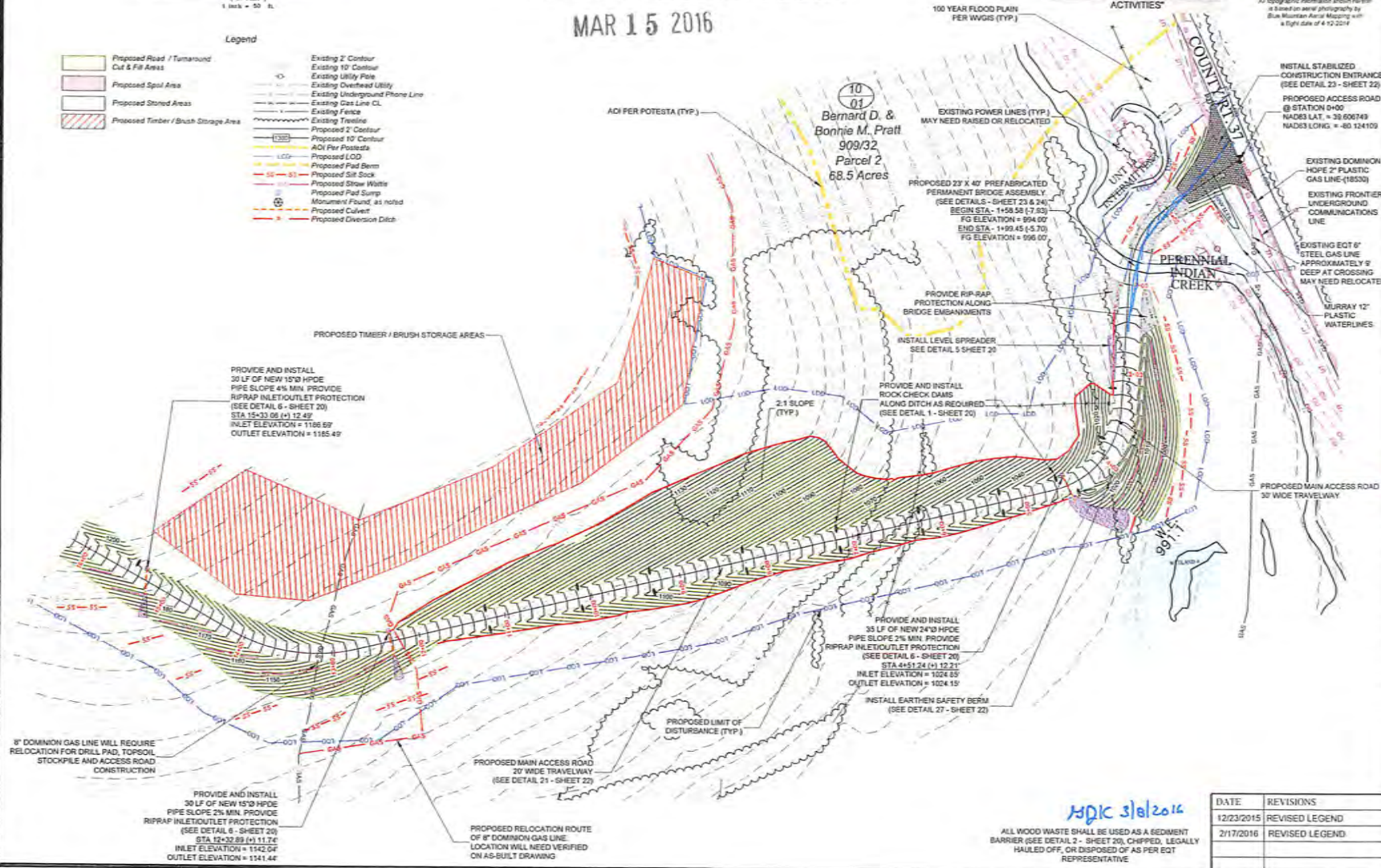
Horner Bros Engineers  
Surveying  
Civil, Mining, Environmental and Consulting Engineering  
1000 Main Street, Suite 100  
Martinsburg, WV 26150



THIS DOCUMENT PREPARED FOR EQT PRODUCTION COMPANY

FINAL DESIGN PLAN  
EQT GR27  
WELL PAD SITE  
CLAY & GRANT DISTRICT, WV  
MORGANTHAU COUNTY, WV

- Legend**
- Proposed Road / Turnaround Cut & Fill Areas
  - Proposed Spill Area
  - Proposed Staged Areas
  - Proposed Timber / Brush Storage Area
  - Existing 2" Contour
  - Existing 10" Contour
  - Existing Utility Pole
  - Existing Overhead Utility
  - Existing Underground Phone Line
  - Existing Gas Line CL
  - Existing Fence
  - Existing Trestle
  - Proposed 2" Contour
  - Proposed 10" Contour
  - AOI Per Potesta
  - Proposed LOD
  - Proposed LOD
  - Proposed Pad Berm
  - Proposed Gilt Sock
  - Proposed Straw Wattle
  - Proposed Pad Sump
  - Monument Found, as noted
  - Proposed Culvert
  - Proposed Diversion Ditch



ADIC 3/16/2016  
ALL WOOD WASTE SHALL BE USED AS A SEDIMENT BARRIER (SEE DETAIL 2 - SHEET 20), CHIPPED, LEGALLY HAULED OFF, OR DISPOSED OF AS PER EQT REPRESENTATIVE

DATE	REVISIONS	Date: 12/17/2015
12/23/2015	REVISED LEGEND	Scale: 1"=50'
2/17/2016	REVISED LEGEND	Designed By: TBC
		File No: 15-02-071000
		Page: 1 of 20





4706101748

# RECLAMATION PLAN (1)

Office of Oil & Gas

MAR 15 2016



All topographic information shown herein is based on aerial photography by Blue Mountain Aerial Mapping with a flight date of 4/12/2014



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



Horner Bros. Engineers  
Shorey Bros. Engineers  
Civil, Mining, Environmental and Consulting Engineering  
1000 1st Street, Suite 200  
Martinsburg, WV 26150  
304-271-2222



THIS DOCUMENT PREPARED FOR  
EQT PRODUCTION COMPANY

RECLAMATION PLAN (1)  
EQT GR1 27  
WELL PAD SITE  
MUNICIPALITY OF BIRCH RIVER  
MONONGALIA COUNTY, WV

- NOTES:**
1. ALL WELLS AND ACCESS ROADS SHALL BE RECLAIMED TO ORIGINAL GRADE OR BETTER. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.
  2. EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.
  3. ALL WELLS AND ACCESS ROADS SHALL BE RECLAIMED TO ORIGINAL GRADE OR BETTER. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.
  4. ALL WELLS AND ACCESS ROADS SHALL BE RECLAIMED TO ORIGINAL GRADE OR BETTER. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.
  5. ALL WELLS AND ACCESS ROADS SHALL BE RECLAIMED TO ORIGINAL GRADE OR BETTER. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.
  6. ALL WELLS AND ACCESS ROADS SHALL BE RECLAIMED TO ORIGINAL GRADE OR BETTER. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.
  7. ALL WELLS AND ACCESS ROADS SHALL BE RECLAIMED TO ORIGINAL GRADE OR BETTER. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.
  8. ALL WELLS AND ACCESS ROADS SHALL BE RECLAIMED TO ORIGINAL GRADE OR BETTER. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.
  9. ALL WELLS AND ACCESS ROADS SHALL BE RECLAIMED TO ORIGINAL GRADE OR BETTER. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.
  10. ALL WELLS AND ACCESS ROADS SHALL BE RECLAIMED TO ORIGINAL GRADE OR BETTER. ALL EXISTING UNDERGROUND UTILITIES SHALL BE MAINTAINED OR RELOCATED TO A DEPTH OF 4 FEET BELOW THE PROPOSED SURFACE GRADE.

ALL PIT LINERS TO BE REMOVED AND DISPOSED OF PROPERLY. THE PIT AND PAD AREAS ARE TO BE GRADED TO THE LIMITS SHOWN. SURFACE OWNERS SPECIFICATIONS OR AS CLOSE TO PRE-DISTURBANCE GRADES AS POSSIBLE.

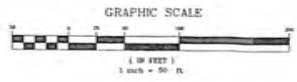
REMOVE ERS DEVICES UPON COMPLETION OF FINAL VEGETATION AND SITE STABILIZATION

INSPECT, REPAIR, OR REPLACE DITCH CHECK DAMS IN ACCESS ROAD AS PART OF RECLAMATION PROCESS SEE DETAIL(TYP)

REMOVE ERS DEVICES UPON COMPLETION OF FINAL VEGETATION AND SITE STABILIZATION

SURFACE BOUNDARY LINE (TYP) SURFACE BOUNDARY LINES ARE APPROXIMATE AND BASED ON CURRENT DEEDS AND BOUNDARY EVIDENCE COLLECTED WITH MAPPING GRADE GPS

RELOCATED 12" DOMINION GAS LINE. SEE ACTUAL LOCATION, ROUTE AND INVERT DEPTHS PER AS-BUILT DRAWINGS



- Legend**
- Road / Turnaround Cut & Fill Areas
  - Stored Areas
  - Timber / Brush Storage Area
  - Reclaimed Surface Area
  - Existing 2" Contour
  - Existing 10' Contour
  - Existing Tree Line
  - Existing Utility Pole
  - Existing Overhead Utility
  - Existing Underground Telephone
  - Existing Gas Line CL
  - Existing Fence
  - Proposed 2" Contour
  - Proposed 10' Contour
  - A.O.I. Per Potesta
  - L.O.D.
  - Proposed Silt Dock
  - Proposed Straw Waffle
  - Cut Areas
  - Pad Sump
  - Measurement Found, as noted
  - Culvert
  - Diversion Ditch

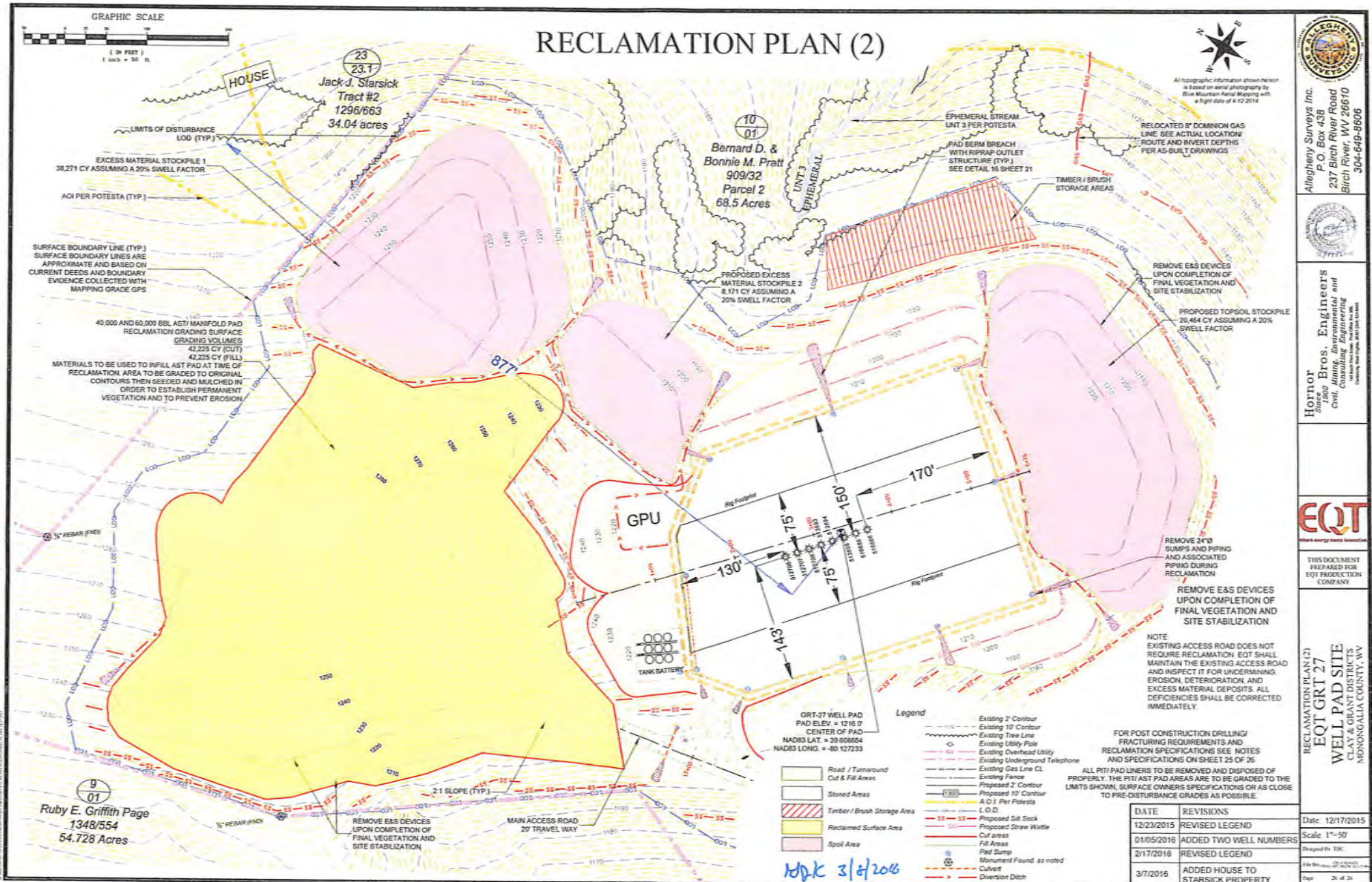
NOTE: EXISTING ACCESS ROAD DOES NOT REQUIRE RECLAMATION. EQT SHALL MAINTAIN THE EXISTING ACCESS ROAD AND INSPECT IT FOR UNDERMINING, EROSION, DETRIORATION, AND EXCESS MATERIAL DEPOSITS. ALL DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.

DATE	REVISIONS	Date: 12/17/2015
12/23/2015	REVISED LEGEND	Scale: 1"=50'
2/17/2016	REVISED LEGEND	Designed by: JMC
		File No: 150407-02-01-01-01
		Page: 21 of 21

HOK 3/8/2016

4706101748

# RECLAMATION PLAN (2)



Allegheny Surveys Inc.  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8806



Horner Bros Engineers  
3000  
Shirley  
Clayton, WV 26031  
Consulting Engineering  
10000  
10000  
10000



THIS DOCUMENT  
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EQT PRODUCTION  
COMPANY

RECLAMATION PLAN (2)  
EQT GRT 27  
WELL PAD SITE  
CLAY & GRANT DISTRICTS  
MONROGALIA COUNTY, WV

Date: 12/17/2015  
Scale: 1"=50'  
Designed by: TRC  
File No: 2015-02-02-01  
Page: 26 of 26

MDK 3/2/2016