



west virginia department of environmental protection

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

Jim Justice, Governor
Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Wednesday, March 15, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY (A)
120 PROFESSIONAL PLACE
BUILDING II
BRIDGEPORT, WV 26330

Re: Permit approval for 516735
47-049-02428-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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- 0450.

James A. Martin
Chief

Operator's Well Number: 516735
Farm Name: PATRICK, WALTER & BEULAH
U.S. WELL NUMBER: 47-049-02428-00-00
Horizontal 6A / New Drill
Date Issued: 3/15/2017

Promoting a healthy environment.

03/17/2017

PERMIT CONDITIONS

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

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than 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. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. 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.
10. 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.

PERMIT CONDITIONS

11. 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.

4704902428

WW-6B
(04/15)

API NO. 47- 049-02428
OPERATOR WELL NO. 516735
Well Pad Name: GRT28

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

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

2) Operator's Well Number: 516735 Well Pad Name: GRT28

3) Farm Name/Surface Owner: Walter & Beulah Patrick Public Road Access: CR91

4) Elevation, current ground: 1193 Elevation, proposed post-construction: 1207

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

12/12/2016
SDW

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7612', 101', 2593 psi

8) Proposed Total Vertical Depth: 7612

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 11916

11) Proposed Horizontal Leg Length: 3532

12) Approximate Fresh Water Strata Depths: 700

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

14) Approximate Saltwater Depths: 1308,1326,1471

15) Approximate Coal Seam Depths: 29,101,155,229,394,464,486,507,545

16) Approximate Depth to Possible Void (coal mine, karst, other): 507

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

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

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WW-6B
(04/15)

4704902428

API NO. 47- _____
 OPERATOR WELL NO. 516735
 Well Pad Name: GRT28

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	26	New	A-500	85.6	80	80	98 ft ³ / CTS
Fresh Water	18 5/8	New	J-55	87.5	579	579	940 ft ³ / CTS
Coal	13 3/8"	New	J-55	54.5	800	800	650 ft ³ / CTS
Intermediate	9 5/8	New	A-500	40	2297	2297	900 ft ³ / CTS
Production	5 1/2	New	P-110	20	11916	11916	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' inclination	
Liners							

*SDW
12/12/2016*

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	26	30	.312	884	707	Class A	1.18
Fresh Water	18 5/8	24	.435	2250	1800	See Variance	1.19
Coal	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
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 A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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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 5963'. Kick off and drill curve. Drill the 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, 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 250,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 250,000 pounds of sand per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.04

22) Area to be disturbed for well pad only, less access road (acres): 13.02

23) Describe centralizer placement for each casing string:

- Mine Protection: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One centralizer 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
 Mine Protection (Type 1 Cement). 0-3% Calcium Chloride. Used to speed the setting of cement slurries
 Surface (Type 1 Cement). 0-3% Calcium Chloride. Used to speed the setting of cement slurries
 Intermediate (Type 1 Cement). 0-3% Calcium Chloride. Used to speed the setting of cement slurries
 Production:
 Lead (Class A 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 (Class 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:

Mine Protection: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
 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 hole bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

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*Note: Attach additional sheets as needed.

EQT Production
Hydraulic Fracturing Monitoring Plan
PAD ID: GRT28
Marion County, WV

8/26/16

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DEC 02 2016
WV Department of
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Page 1 of 2

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marion County, WV prior to hydraulic fracturing at the following EQT wells on the GRT28 pad: 516734, 516735, 516736, 516737

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,500' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,200' TVD).

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

1. Communications with Conventional Well Operators

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

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

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

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

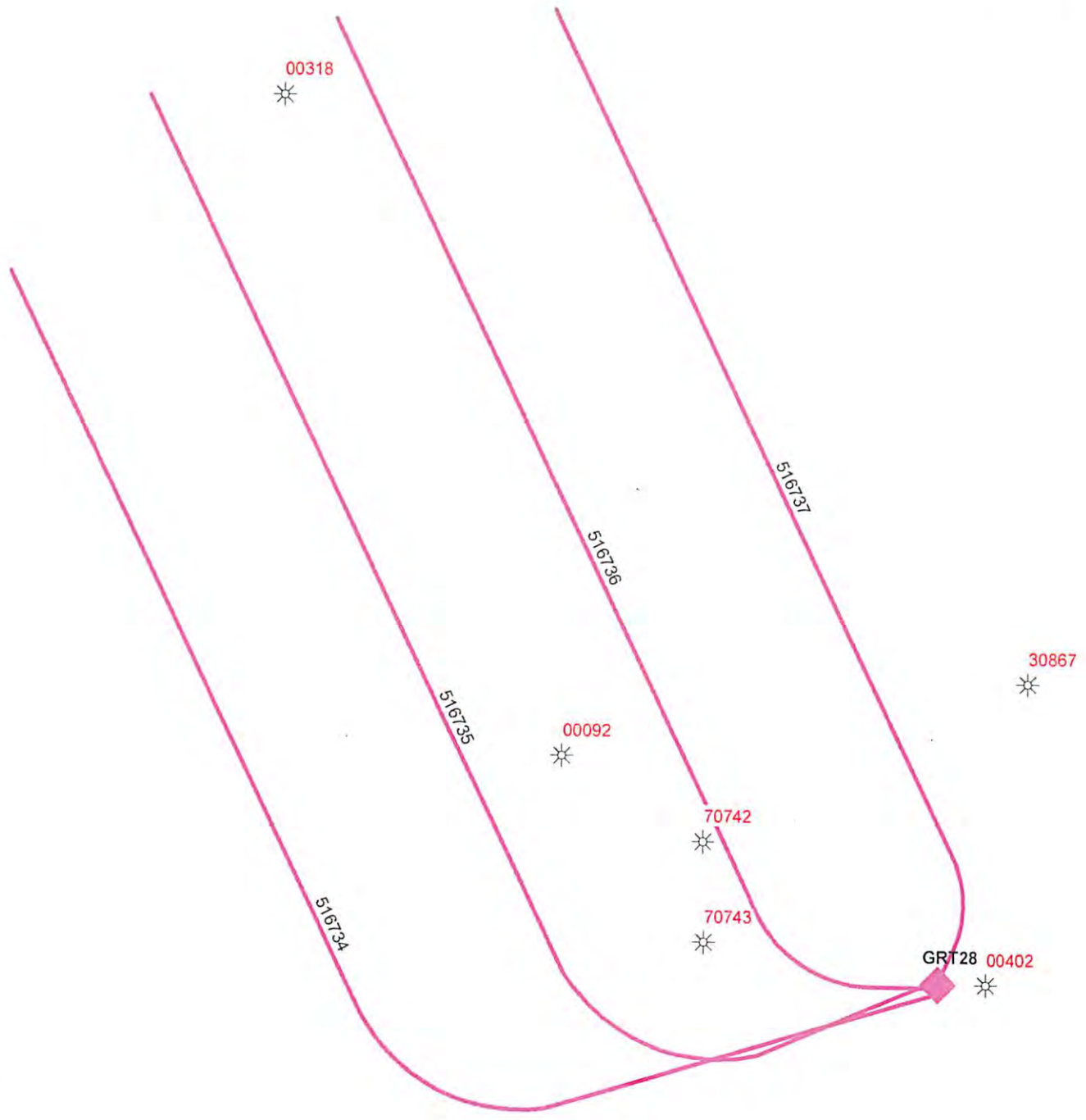
1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves rated to 3,000 psi or other necessary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

2. Reporting

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

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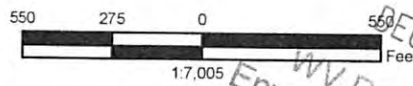
EQT

EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

GRT28

Vertical Offsets and
Foreign Laterals
within 500'

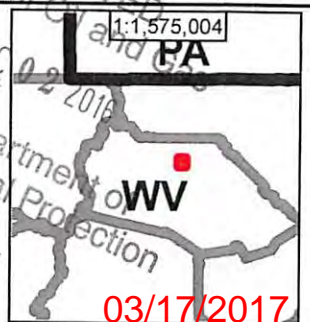
- Legend
- GRT28 Vertical Offsets
 - Target Formation**
 - Utica
 - Genesee
 - Marcellus
 - Middlesex
 - Genesee Spud
 - Marcellus Spud
 - Middlesex Spud
 - Utica Spud



Disclaimer:

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.

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API	Abandon Date	Comp Date	Operator	Datum Ele	Datum Type	Status	LATITUDE	LONGITUDE	OPER_NAME	SPUD_DATE	TD Form Name	Total Depth
47049004020000		11/15/1912	ROSS & WHARTON	1275	GR	DG	39.5614	-80.2372	CONSOLIDATED GAS SUPPLY CORPORATION	9/23/1912	FIFTH SAND	2975
47049003180000		4/20/1976	EQT PRODUCTION COMPANY	1388	KB	DG	39.5704	-80.2465	CONSOLIDATED GAS SUPPLY CORPORATION	3/22/1976	DEVONIAN /SD/	5363
47049000920000	3/23/1942	12/1/1941	UNKNOWN	1187	GR	D	39.5637	-80.2428	UNKNOWN	11/1/1941	FIFTH SAND	2900
47049308670000	1/30/1960	8/14/1917	UNKNOWN	1429	GR	DG	39.5645	-80.2366	UNKNOWN	7/23/1917	ALLEGHENY /SERIES/	1321
47049707420000		18010101	UNKNOWN		GR	U	39.5629	-80.2409	UNKNOWN			
47049707430000		18010101	UNKNOWN		GR	U	39.5619	-80.2409	UNKNOWN			

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Attachment A/21

UWI	Name	Depth Top	Base Depth
47049003180000	LITTLE LIME	1900	1913
47049003180000	BIG LIME	1940	
47049003180000	FIFTY FOOT SD	2605	2715
47049003180000	GORDON STRAY /SD/	2752	
47049003180000	FOURTH SAND	2922	2978
47049003180000	FIFTY FOOT SD	3074	3096
47049003180000	BALLTOWN /SD/	3886	4090
47049003180000	RILEY /SD/	4924	5009
47049003180000	BENSON /SD/	5178	5188
47049003180000	BIG INJUN /SD/		2132
47049003180000	GORDON /SD/		2906

Perforated Formations

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Attachment A(2)



(date)

[Conventional Well Operator]
[address]
[state]

RE: Marion County Hydraulic Fracturing Notice

Dear Sir/Madam,

EQT has developed a Marcellus pad (Granttown 28 pad) located in Marion County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,500' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,200' TVD).

EQT anticipates conducting hydraulic fracturing at the Granttown 28 pad during the [first,second, third, fourth] quarter of [year]. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

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

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

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

Sincerely,
EQT Production

John Centofanti
Corporate Director, Environmental Affairs

cc: James Martin, WV Office of Oil and Gas

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Attachment B



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

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

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

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water

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

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CONCLUSIONS OF LAW

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

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

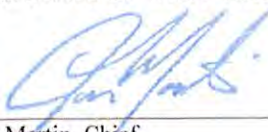
ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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WW-9
(4/16)

API Number 47 - 049

Operator's Well No. 516735

02428

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) Bethel Run 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: _____

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 _____)

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 29 day of Nov, 2016

My commission expires 8-24-22

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DEC 02 2016
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 180
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

49-02428

WW-9 Attachment

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, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

03/17/2017

EQT Production Water plan
Offsite disposals for Marcellus wells

49-02428

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

03/17/2017

4704902428

49-02428

Form WW-9

Operator's Well No. 516735

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed 15.04 Prevegetation pH 5.8

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

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:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *[Signature]*

Comments: *Pre-Seed/mulch as soon as reasonably possible per regulation. Upgrade ETS if needed per WV DEP ETS manual*

RECEIVED Office of Oil and Gas

Title: *OOG Inspector*

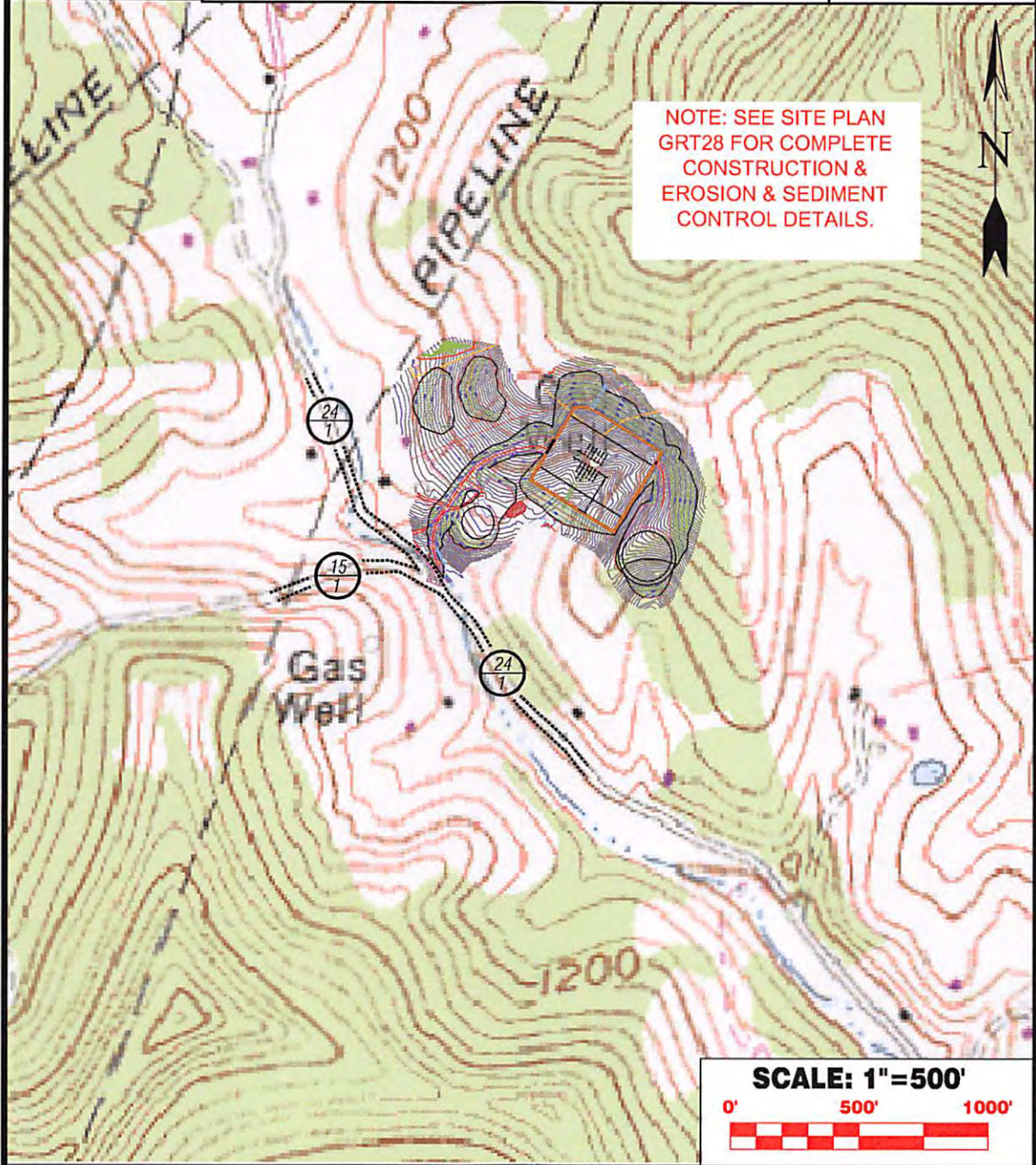
Date: *12/12/2016*

DEC 16 2016

Field Reviewed? () Yes () No

WV Department of Environmental Protection

03/17/2017



Detail Sketch for Proposed GRT28 Wells



DRAWN BY K.D.W.	FILE NO. 8423	DATE 08/22/16	CADD FILE: 8423GRT28REC.dwg
--------------------	------------------	------------------	--------------------------------

TOPO SECTIONS OF GRANT TOWN 7.5' TOPO QUADRANGLE

RECEIVED
Office of Oil and Gas
Department of
Environmental Protection

Not To Scale 03/17/2017



4704902428

Where energy meets innovation.™

Site Specific Safety Plan

EQT GRT 28 Pad

Grant Town Quadrant

Marion County, WV

For Wells:

516735 _____

Date Prepared:

August 18, 2016

[Signature]
EQT Production
[Signature]
Permitting Supervisor
Title
12-5-16
Date

SDW 12/12/2016
WV Oil and Gas Inspector
Title
Date

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Office of Oil and Gas
DEC 16 2016
WV Department of
Environmental Protection
03/17/2017

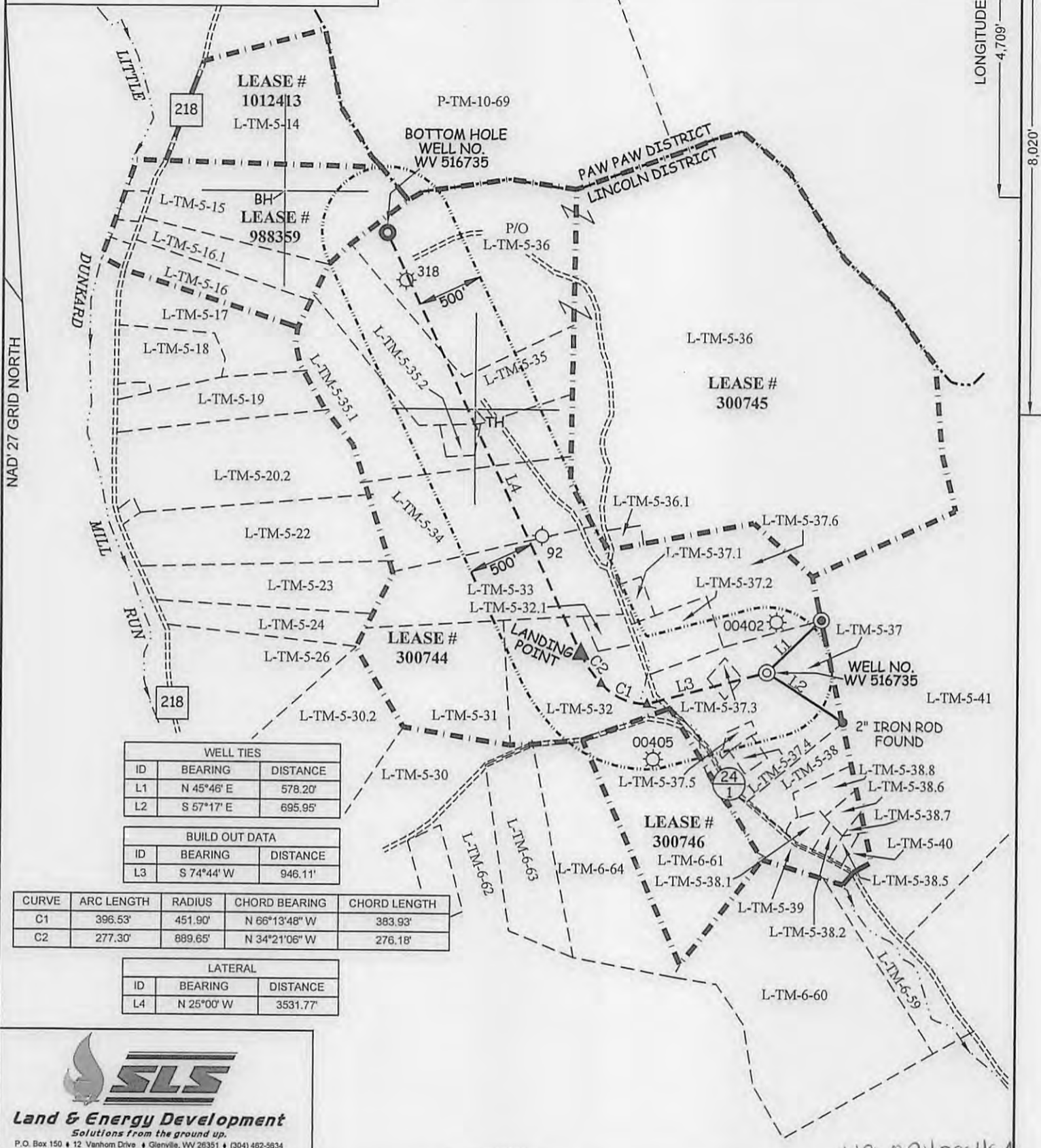
GRT28
WV 516735
EQT PRODUCTION COMPANY

11,254'

LATITUDE 39°35'00"

LONGITUDE 80°12'30"

8,020'



WELL TIES		
ID	BEARING	DISTANCE
L1	N 45°46' E	578.20'
L2	S 57°17' E	695.95'

BUILD OUT DATA		
ID	BEARING	DISTANCE
L3	S 74°44' W	946.11'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	396.53'	451.90'	N 66°13'48" W	383.93'
C2	277.30'	889.65'	N 34°21'06" W	276.18'

LATERAL		
ID	BEARING	DISTANCE
L4	N 25°00' W	3531.77'

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Land & Energy Development
 Solutions from the ground up.
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 www.slsurveys.com

49-02428 H64

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'27 S.P.C.(FT)	N. 387,408.19	E. 1,791,980.93	
NAD'27 GEO.	LAT-(N) 39.561317	LONG-(W) 80.237826	
NAD'83 UTM (M)	N. 4,379,356.14	E. 565,490.68	
LANDING POINT			
NAD'27 S.P.C.(FT)	N. 387,541.90	E. 1,790,560.98	
NAD'27 GEO.	LAT-(N) 39.561652	LONG-(W) 80.242866	
NAD'83 UTM (M)	N. 4,379,389.66	E. 565,057.37	
BOTTOM HOLE			
NAD'27 S.P.C.(FT)	N. 390,742.77	E. 1,789,068.39	
NAD'27 GEO.	LAT-(N) 39.570405	LONG-(W) 80.248254	
NAD'83 UTM (M)	N. 4,380,357.27	E. 564,586.38	

VICTOR MOYERS
 LICENSED
 No. 849
 STATE OF
 WEST VIRGINIA
 PROFESSIONAL SURVEYOR
 10-11-16

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- LINCOLN DISTRICT TAX MAP-PARCEL L-TM-00-00
- PAW PAW DISTRICT TAX MAP-PARCEL P-TM-00-00

03/17/2017

SCALE 1" = 1000' FILE NO. 8423P516735R

DATE AUGUST 25, 20 16

REVISED OCTOBER 11, 20 16

OPERATORS WELL NO. WV 516735

API WELL NO. 47 STATE 049 COUNTY PERMIT 02428

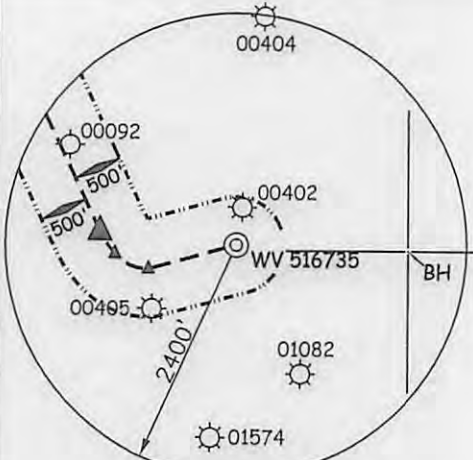
STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

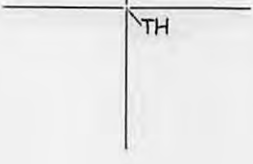
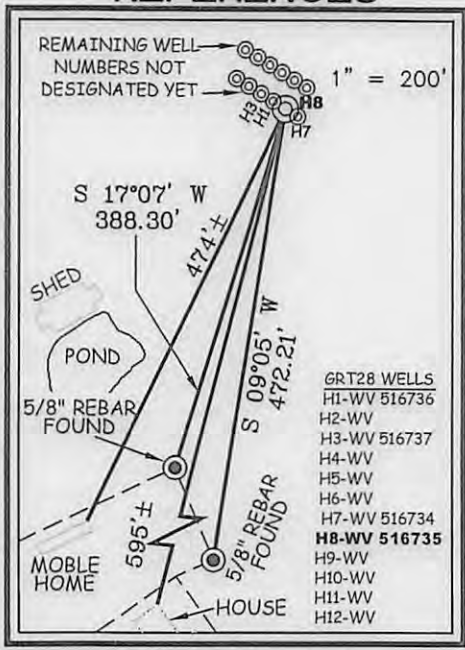
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

GRT28
WV 516735
EQT PRODUCTION COMPANY

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 387,408.19 E. 1,791,980.93
 NAD'27 GEO. LAT-(N) 39,561317 LONG-(W) 80.237826
 NAD'83 UTM (M) N. 4,379,356.14 E. 565,490.68
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 NAD'27 S.P.C.(FT) N. 387,541.90 E. 1,790,560.98
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 NAD'27 GEO. LAT-(N) 39.570405 LONG-(W) 80.248254
 NAD'83 UTM (M) N. 4,380,357.27 E. 564,586.38



REFERENCES



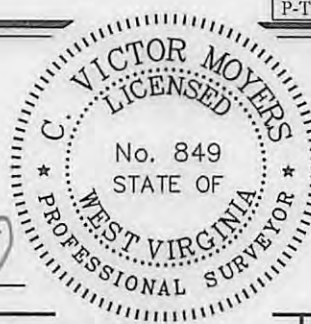
L-TM-5-14	ROBIN TENNANT ET AL	25.28 ACRES±
L-TM-5-15	JOSEPH LONGWELL ET AL	22.76 ACRES±
L-TM-5-16	RICHARD KINCELL ET AL	7.88 ACRES±
L-TM-5-16.1	ROGER PARKER	7.88 ACRES±
L-TM-5-17	JEAN CLARK	9.26 ACRES±
L-TM-5-18	JACK & MILDRED COOK	9.24 ACRES±
L-TM-5-19	AARON & MAGGIE DENHAM	10.95 ACRES±
L-TM-5-20.2	DONALD PRICE	21.061 ACRES±
L-TM-5-22	KEVIN JONES ET AL	18.74 ACRES±
L-TM-5-23	RONALD & MARILYN FETTY	12.69 ACRES±
L-TM-5-24	CARL & MARGARET McINTIRE	11.86 ACRES±
L-TM-5-26	TIMOTHY & JUDITH VANPELT	11.646 ACRES±
L-TM-5-30	RUSSELL & TERRI MORRIS	11.820 ACRES±
L-TM-5-30.2	BARBARA WISE ET AL	21.55 ACRES±
L-TM-5-31	SANDY CROWLEY	20.72 ACRES±
L-TM-5-32	RYAN & ANNA BESEDICH	8.849 ACRES±
L-TM-5-32.1	MICHAEL MARCOZZI ET AL	1.42 ACRES±
L-TM-5-33	THURMAN JR. & BELINDA BLAND	22.75 ACRES±
L-TM-5-34	LEONARD MYERS ET AL	22.5 ACRES±
L-TM-5-35	MARK CLEVINGER ET AL	24.84 ACRES±
L-TM-5-35.1	JIMMIE & VICKIE WELCH	23.32 ACRES±
L-TM-5-35.2	SHANNON CURREY	0.94 ACRES±
L-TM-5-36	HARRY & DEBRA BLAND	202.145 ACRES±
L-TM-5-36.1	HARRY & DEBRA BLAND	0.935 ACRES±
L-TM-5-37	WALTER & BEULAH PATRICK	21.50 ACRES±
L-TM-5-37.1	LUCIDA BROWN	1.50 ACRES±
L-TM-5-37.2	LARRY DENOON JR	3 ACRES±
L-TM-5-37.3	LUCINDA DENOON	0.99 ACRES±
L-TM-5-37.4	KEVIN & MARTHA TOOTHMAN	1 ACRES±
L-TM-5-37.5	TRAVIS & HEIDI TOOTHMAN	0.75 ACRES±
L-TM-5-37.6	LUCIDA BROWN	20.50 ACRES±
L-TM-5-38	ROBERT & NICOLE KINCELL	5.170 ACRES±
L-TM-5-38.1	JACK JR & ANGELINA FROST	1.71 ACRES±
L-TM-5-38.2	STEPHEN WOODY ET AL	1.04 ACRES±
L-TM-5-38.5	GREGORY & DEBORAH GARRISON	0.70 ACRES±
L-TM-5-38.6	DAVID & SHELLY BLAND	0.95 ACRES±
L-TM-5-38.7	GREGORY & DEBORAH GARRISON	0.14 ACRES±
L-TM-5-38.8	DAVID & SHELLY BLAND	2.17 ACRES±
L-TM-5-39	REBECCA CRANDALL	3 ACRES±
L-TM-5-40	D REYNOLDS INVESTMENTS LLC	1.23 ACRES±
L-TM-5-41	JOSEPH & JEANETTE MICYNOIZ	85.75 ACRES±
L-TM-6-59	I O O F ELECTIC LODGE #67	5.36 ACRES±
L-TM-6-60	I O O F ELECTIC LODGE #67	53 ACRES±
L-TM-6-61	REBECCA CRANDALL	34.75 ACRES±
L-TM-6-62	RUSSELL & TERRI MORRIS	20 ACRES±
L-TM-6-63	JOSEPH CRANDALL	13.50 ACRES±
L-TM-6-64	E.M. & NANCY KITTLE	14.57 ACRES±
P-TM-10-69	BASIL & WANDA RUCKLE	89 ACRES±

NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ.FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. SEE REFERENCE BOX FOR DISTANCE TO EXISTING DWELLINGS WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
3. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-5634
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I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.



P.S. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE AUGUST 25, 20 16
 REVISED OCTOBER 11, 20 16
 OPERATORS WELL NO. WV 516735
 API WELL NO. 47-049-02428
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8423P516735R.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
 SCALE SEE NOTE 3

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: (GROUND) (PROPOSED)
 ELEVATION 1193' 1207' WATERSHED BETHEL RUN
 DISTRICT LINCOLN COUNTY MARION QUADRANGLE GRANT TOWN 7.5'
 SURFACE OWNER WALTER & BEULAH PATRICK ACREAGE 21.50±
 ROYALTY OWNER LARRY & JUDITH KUHN ET AL ACREAGE 231±
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH 7612'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

03/17/2017

49-02428

WW-6A1
(5/13)

Operator's Well No. 516735

**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				

**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

[Handwritten Signature]
 RECEIVED
 Office of Oil and Gas
 DEC 02 2016
 WV Department of Environmental Protection
 Page 1 of 2
 03/17/2017

49-02428

WW-6A1 attachment

Operator's Well No.

516735

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
300744	<u>Larry & Judith Kuhn, et al (current royalty owner)</u>		***	
	D. D. Hawkins (original lessor)	W. Hunter Atha		DB 111/219
	W. Hunter Atha	E. H. Jennings & Bros		DB 112/252
	E. H. Jennings & Bros	Fairmont Gas and Light Company		DB 112/286
	Fairmont Gas and Light Company	Fairmont Gas Company		DB 194/33
	Fairmont Gas Company	Monongahela Valley Traction Company		DB 207/314
	Monongahela Valley Traction Company	Hope Natural Gas Company		DB 497/163
	Hope Natural Gas Company	Consolidated Gas Supply Corporation		DB 680/35
	Consolidated Gas Supply Corporation	Conolidated Gas Transmission Company		DB 9/912
	Conolidated Gas Transmission Company	CNG Transmission Corporation		DB 46/654
	CNG Transmission Corporation	Eastern States Oil and Gas, Inc.		DB 16/993
	Eastern States Oil and Gas, Inc.	Blazer Energy		CB12/253
	Blazer Energy	Eastern States Oil and Gas, Inc.		CB 12/259
	Eastern States Oil and 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

*** We will pay one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced, or marketed from the well.

Received
Office of Oil & Gas
DEC 02 2016

03/17/2017



49-02428

July 12, 2016

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

Re: GRT28 well pad, well number 516735
Lincoln District, Marion County

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 Roark'.

Vicki Roark
Permitting Supervisor-WV

Received
Office of Oil & Gas
DEC 02 2016

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

Date of Notice Certification: 11-30-16

API No. 47- 049 - 02428
Operator's Well No. 516735
Well Pad Name: GRT28

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>565490.675</u>
County: <u>Marion</u>		Northing: <u>4379356.144</u>
District: <u>Lincoln</u>	Public Road Access: <u>CR91</u>	
Quadrangle: <u>Grant Town</u>	Generally used farm name: <u>Walter and Beulah Patrick</u>	
Watershed: <u>Bethel Run</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
--	---

Required Attachments:

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

Received
Office of Oil & Gas
DEC 02 2016

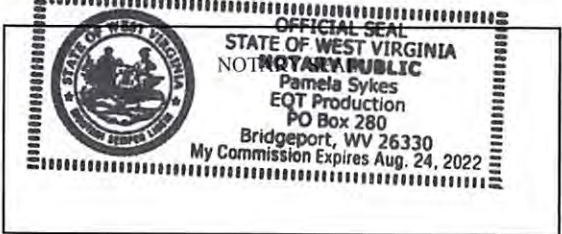
03/17/2017

Certification of Notice is hereby given:

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

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

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041
Email: vroark@eqt.com



Subscribed and sworn before me this 29 day of Nov 2016.
Pamela Sykes Notary Public
My Commission Expires 8-24-22

Oil and Gas Privacy Notice:

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

Received
Office of Oil & Gas
DEC 02 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: 11-30-16 **Date Permit Application Filed:** 11-30-16

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: See Attached

Address: _____

Name: _____

Address: _____

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

Name: See Attached

Address: _____

Name: _____

Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: See Attached

Address: _____

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

Received
Office of Oil & Gas

DEC 02 2016
03/17/2017

Surface Owners:

Walter R. Patrick and Beulah J. Patrick
159 Horse Shoe Road
Farmington, WV 26571

49-02428

7016 1970 0000 3938 1078

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

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 Walter R Patrick & Beulah J Patrick
\$ _____
Sent 159 Horse Shoe Road
Street Farmington WV 26571
City _____

BRIDGEPORT WV
NOV 1 2016
Postmark Here

GRT28 Permit Ap & Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-8047 See Reverse for Instructions



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03/17/2017

49-02428

Surface Owners (road or other disturbance):

Walter R. Patrick and Beulah J. Patrick
159 Horse Shoe Road
Farmington, WV 26571

Lucida Darlene Denoon a/k/a Lucida Darlene Brown
100 Bland Hollow Road
Fairview, WV 26578

Larry E. Denoon Jr.
76 Bland Hollow Road
Fairview, WV 26578

7016 1970 0000 3938 1078

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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 **Walter R Patrick & Beulah J Patrick**

Sent To **159 Horse Shoe Road**

Street and Apt **Farmington WV 26571**

City, State, Zip **GRT28 Permit Ap & Planned Op**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 1970 0000 3938 1092

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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 **Lucida Darlene Denoon**

Sent To **Aka Lucinda Darlene Brown**

Street and Apt **100 Bland Hollow Road**

City, State, Zip **Fairview WV 26578**

GRT28 Permit Ap & Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 1970 0000 3938 1108

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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 **Larry E Denoon Jr**

Sent To **76 Bland Hollow Road**

Street and Apt **Fairview WV 26578**

City, State, Zip **GRT28 Permit Ap & Planned Op**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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49-02428

Surface Owners (Pits or impoundments):

Walter R. Patrick and Beulah J. Patrick
159 Horse Shoe Road
Farmington, WV 26571

7016 1970 0000 3938 1078

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OFFICIAL USE

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 \$ _____

Semi \$ _____

Street _____

City _____

Walter R Patrick & Beulah J Patrick
159 Horse Shoe Road
Farmington WV 26571

GRT28 Permit Ap & Planned Op

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NOV 2 2016
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49-02428

Coal Owner

Consolidation Coal Company
Engineering Operations Support Dept. Coal
1000 Consol Energy Drive
Canonsburg PA 15317
Attn: Casey Saunders

Lucinda Darlene Brown
100 Bland Hollow Rd
Fairview, WV 26570

Consolidation Coal Company OH
c/o Murray American Energy, Inc.
46226 National Rd
St. Clairsville, OH 43950
Attn: Alex O'Neill

Consolidation Coal Company WV
c/o Murray American Energy, Inc.
1 Bridge St
Monongah, WV 26554
Attn: Troy Freels

CNX Gas Co., LLC
Engineering Operations Support Dept. Coal
1000 Consol Energy Dr.
Canonsburg, PA 15317-6506
Attn: Casey Saunders

/

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49-02428

Owners of Water Wells

Harry "Wayne" Bland
148 Bland Hollow Rd.
Fairview WV 26570

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OFFICIAL USE

7016 1970 0000 3938 1153

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 Post	\$	
Sent To Harry "Wayne" Bland		
148 Bland Hollow Rd		
Fairview WV 26570		
City, State,		

BRIDGEPORT WV NOV 30 2016

Postmark Here

GRT28 Permit 4p

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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DEC 02 2016

03/17/2017

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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03/17/2017

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WW-6A
(8-13)

API NO. 47-049 - 02428
OPERATOR WELL NO. 516735
Well Pad Name: GRT28

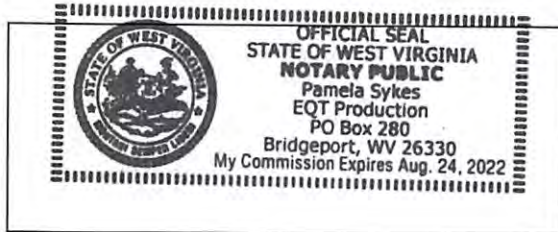
Notice is hereby given by:

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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

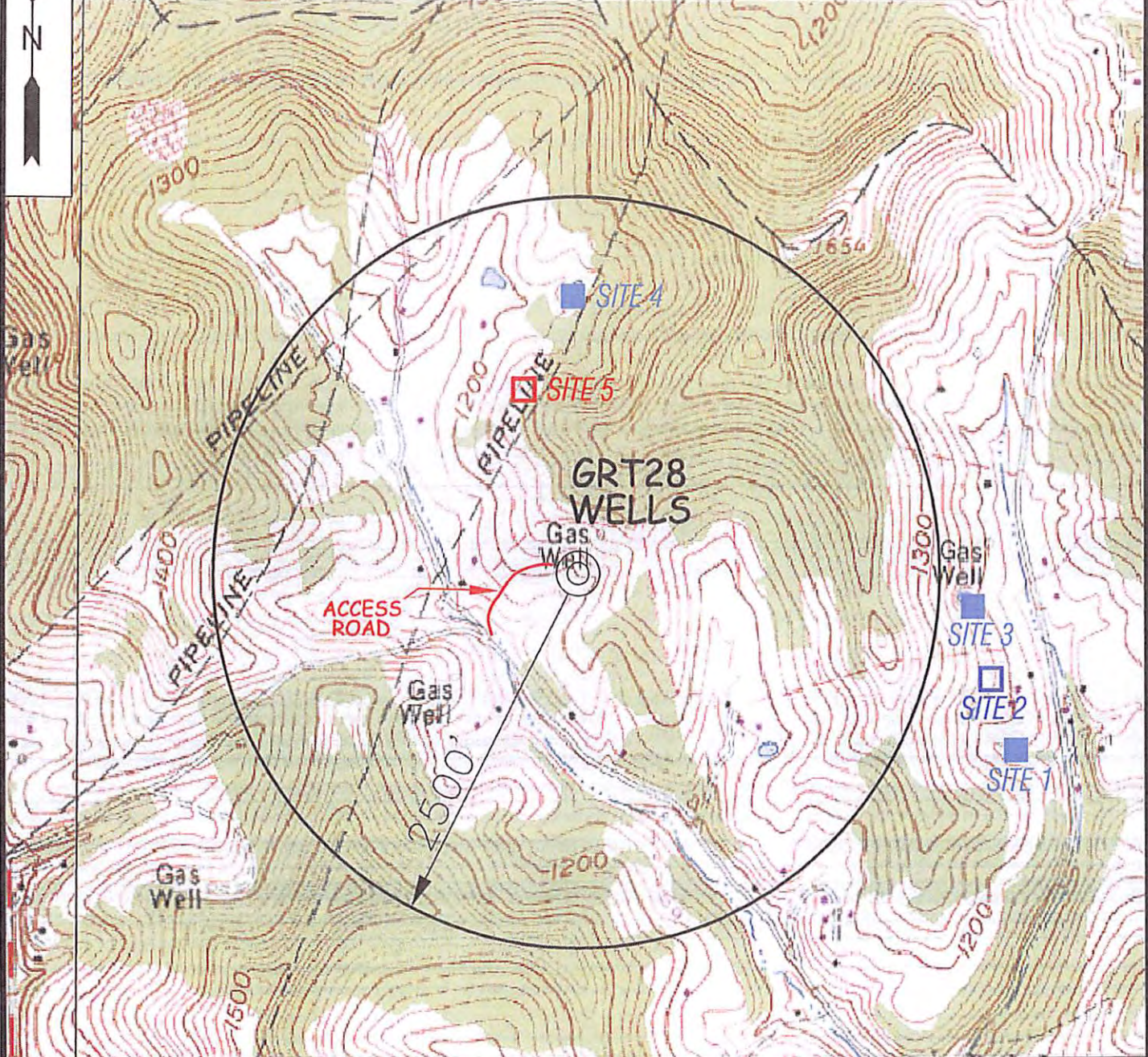


[Signature]
Subscribed and sworn before me this 29 day of Nov, 2016.
[Signature] Notary Public
My Commission Expires 8-24-22

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03/17/2017




WATER SOURCE LOCATIONS FOR GRT28 WELLS



SCALE: 1-INCH=1000-FEET



LEGEND

-  CISTERN
-  SPRING
-  POND



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www.slsenergy.com

DRAWN BY K.D.W.	FILE NO. 8423	DATE 06/28/16	CADD FILE: 8423WATERMAP.dwg
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TOPO SECTION OF:
GRANT TOWN, WV 7.5' QUAD

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
LINCOLN	MARION	05-37

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

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201600007216

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, EQT Production Company is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), 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.

WAIVER

I, Kevin E. Toothman and Martha J. Toothman, 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 UTM NAD 83 Easting: 565466.727
County: Marion UTM NAD 83 Northing: 4379358.447
District: Lincoln Public Road Access: CR 241
Quadrangle: Fairmont West Generally used farm name: Toothman
Watershed: Dunkard M21 Run

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 and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- EXISTING WATER WELLS
- DEVELOPED SPRINGS
- DWELLINGS
- AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON

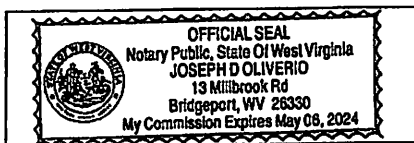
Signature: Kevin E. Toothman and Martha J. Toothman
Print Name: Kevin E. Toothman and Martha J. Toothman
Date: April 13, 2016

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____
Signature: [Signature] RBH
Date: _____

Well Operator: EQT Production Company
By: John W. Damalo
Its: Attorney in Fact

Signature: _____
Telephone: _____



Subscribed and sworn before me this 13 day of April, 2016
Joseph D. Oliverio [Signature] Notary Public
My Commission Expires May 06, 2024

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.

STATE OF WEST VIRGINIA, County of Marion,

To-Wit:

I, Janice Cosco, Clerk of the County Commission of said County, do hereby certify that the foregoing writing, with certificate thereto annexed, was this day produced to me in my office and duly admitted to record.

Witness my hand.

Janice Cosco Clerk

201600007216
Filed for Record in
MARION COUNTY, WV
JANICE COSCO, COUNTY CLERK
06-07-2016 At 02:50 pm.
WAIVER DEED 16.00
STATE TAX .00
COUNTY TAX .00
Book 1194 Page 116 - 116

Received
Office of Oil & Gas

DEC 0-2 2016

03/17/2017

20160007204

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

49-02428

The well operator, EQT Production Company is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), 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.

WAIVER

I, Travis E. Toothman and Heidi A. Toothman, 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 UTM NAD 83 Easting: 565486.727
County: Marion UTM NAD 83 Northing: 4378358.447
District: Lincoln Public Road Access: CR 24/1
Quadrangle: Fairmont West Generally used farm name: Toothman
Watershed: Dunkard MBI Run

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 and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- EXISTING WATER WELLS
- DEVELOPED SPRINGS
- DWELLINGS
- AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON

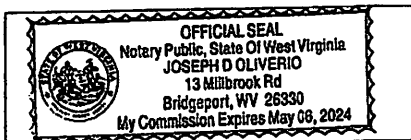
Signature: [Signature]
Print Name: Travis E. Toothman and Heidi A. Toothman
Date: April 26, 2016

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Well Operator: EQT Production Company
By: John W. Damato
Its: Attorney In Fact

Signature: [Signature]
Telephone: _____



Subscribed and sworn before me this 26 day of April, 2016
Joseph D. Oliverio [Signature] Notary Public
My Commission Expires May 06, 2024

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20160007204
Filed for Record in
MARION COUNTY, WV
JANICE COSCO, COUNTY CLERK
06-07-2016 At 02:50 pm.
WAIVER DEED 16.00
STATE TAX .00
COUNTY TAX .00
Book 1194 Page 104 - 104

Received
Office of Oil & Gas

DEC 02 2016

03/17/2017

Surface Owners:

Walter R. Patrick and Beulah J. Patrick
159 Horse Shoe Road
Farmington, WV 26571

49-02428

7016 0910 0000 4937 3880

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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
\$

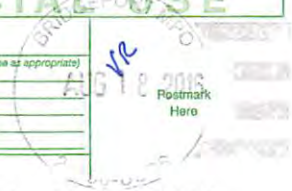
Total Postage Walter R. Patrick and Beulah J. Patrick
\$

Sent To 159 Horse Shoe Road
Farmington, WV 26571

Street and

City, State GRT 28
Notice of Intent

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



Received
Office of Oil & Gas
DEC 02 2016

03/17/2017

49-02428

Surface Owners (road or other disturbance):

Walter R. Patrick and Beulah J. Patrick
159 Horse Shoe Road
Farmington, WV 26571

Lucida Darlene Denoon a/k/a Lucida Darlene Brown
100 Bland Hollow Road
Fairview, WV 26578

Larry E. Denoon Jr.
76 Bland Hollow Road
Fairview, WV 26578

7016 0910 0000 4937 3880

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Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage \$

Sent To: **Walter R. Patrick and Beulah J. Patrick**
159 Horse Shoe Road
Farmington, WV 26571
City, State, ZIP+4: **GRT 28**
Notice of Intent

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0910 0000 4937 3873

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage \$

Sent To: **Lucida Darlene Denoon**
100 Bland Hollow Road
Fairview, WV 26578
City, State, ZIP+4: **GRT 28**
Notice of Intent

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0910 0000 4937 3859

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OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage \$

Sent To: **Larry E. Denoon, Jr.**
76 Bland Hollow Road
Fairview, WV 26578
City, State, ZIP+4: **GRT 28**
Notice of Intent

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



Received
Office of Oil & Gas
DEC 02 2016

03/17/2017

49-02428

Surface Owners (Pits or impoundments): (AST)

Walter R. Patrick and Beulah J. Patrick
159 Horse Shoe Road
Farmington, WV 26571

7016 0910 0000 4937 3880

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Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Postage \$ _____

Sent To **Walter R. Patrick and Beulah J. Patrick**

159 Horse Shoe Road

Farmington, WV 26571

City, State: **GRT 28**

Notice of Intent

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



Received
Office of Oil & Gas
DEC 02 2016

03/17/2017

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: 11-30-16 **Date Permit Application Filed:** 11-30-16

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

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

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: See Attached
Address: _____

Name: See Attached
Address: _____

Notice is hereby given:

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

State: <u>WV</u>	UTM NAD 83 Easting: <u>565490.675</u>
County: <u>Marion</u>	Northing: <u>4379356.144</u>
District: <u>Lincoln</u>	Public Road Access: <u>CR91</u>
Quadrangle: <u>Grant Town</u>	Generally used farm name: <u>Walter and Beulah Patrick</u>
Watershed: <u>Bethel Run</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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: EQT Production Company
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:

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Received
Office of Oil & Gas
DEC 02 2016

03/17/2017

49-02428

Surface Owners:

Walter R. Patrick and Beulah J. Patrick
159 Horse Shoe Road
Farmington, WV 26571

7016 1970 0000 3938 1078

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$	1.30
<input type="checkbox"/> Return Receipt (electronic)	\$	0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	0.00
<input type="checkbox"/> Adult Signature Required	\$	0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	0.00

Postage
\$

Total
\$ Walter R Patrick & Beulah J Patrick

Send
\$ 159 Horse Shoe Road

Street
Farmington WV 26571

City, State, ZIP+4®
GRT28 Permit Ap & Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

BRIDGEPORT WV
NOV 17 2016
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DEC 02 2016
03/17/2017

49-02428

Surface Owners (road or other disturbance):

Walter R. Patrick and Beulah J. Patrick
159 Horse Shoe Road
Farmington, WV 26571

Lucida Darlene Denoon a/k/a Lucida Darlene Brown
100 Bland Hollow Road
Fairview, WV 26578

Larry E. Denoon Jr.
76 Bland Hollow Road
Fairview, WV 26578

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
\$ _____

Total \$ _____
Sent To **Walter R Patrick & Beulah J Patrick**
159 Horse Shoe Road
Farmington WV 26571

Street _____
City, State, ZIP+4® _____
GRT28 Permit Ap & Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 1970 0000 3938 1092

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
\$ _____

Total Postage \$ _____
Sent To **Lucida Darlene Denoon**
Aka Lucinda Darlene Brown
100 Bland Hollow Road
Fairview WV 26578

Street and Apt _____
City, State, ZIP+4® _____
GRT28 Permit Ap & Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 1970 0000 3938 1108

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OFFICIAL USE

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\$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
\$ _____

Total \$ _____
Sent To **Larry E Denoon Jr**
76 Bland Hollow Road
Fairview WV 26578

Street _____
City, State, ZIP+4® _____
GRT28 Permit Ap & Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

RECEIVED
Oil and Gas
WV Department of
Environmental Protection
Received
Office of Oil & Gas
DEC 02 2016

03/17/2017

49-02428

Surface Owners (Pits or impoundments):

Walter R. Patrick and Beulah J. Patrick
159 Horse Shoe Road
Farmington, WV 26571

7016 1970 0000 3938 1078

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OFFICIAL USE

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 \$ _____

Sent to: **Walter R Patrick & Beulah J Patrick**
159 Horse Shoe Road
Farmington WV 26571

City: _____

GRT28 Permit Ap & Planned Op _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

BRIDGE MOUNTAIN WV
NOV 17 2016
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Received
Office of Oil & Gas
DEC 02 2016

03/17/2017

49-02428

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, EQT Production Company is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), 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.

WAIVER

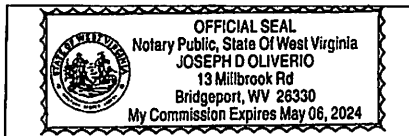
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District: Lincoln Public Road Access: CR 24/1
Quadrangle: Fairmont West Generally used farm name: Toothman
Watershed: Dunkard Mill Run

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<p>WELL SITE RESTRICTIONS BEING WAIVED *Please check all that apply</p> <p><input type="checkbox"/> EXISTING WATER WELLS</p> <p><input type="checkbox"/> DEVELOPED SPRINGS</p> <p><input checked="" type="checkbox"/> DWELLINGS</p> <p><input type="checkbox"/> AGRICULTURAL BUILDINGS</p>	<p>FOR EXECUTION BY A NATURAL PERSON Signature: <u>Travis E. Toothman Heidi A. Toothman</u> Print Name: <u>Travis E. Toothman and Heidi A. Toothman</u> Date: <u>April 26, 2016</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC. Company: _____ By: _____ Its: _____ Signature: _____ Date: _____</p>
---	--

Well Operator: EQT Production Company Signature: _____
By: John W. Damalo Telephone: _____
Its: Attorney in Fact



Subscribed and sworn before me this 26 day of April, 2016
Joseph D. Oliverio Joseph D. Oliverio Notary Public
My Commission Expires May 06, 2024

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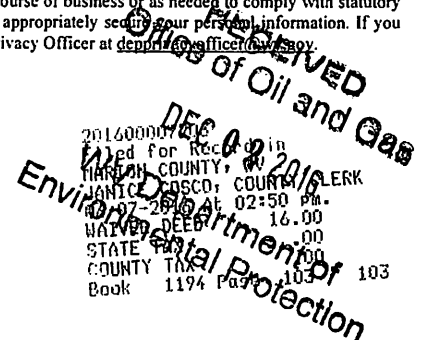
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Witness my hand.

Janice Cosco Clerk



Received
Office of Oil & Gas

DEC 02 2016

03/17/2017

1194 115
201600007215

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DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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WAIVER

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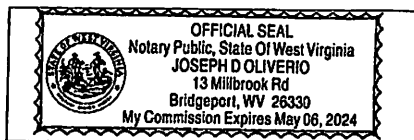
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WELL SITE RESTRICTIONS BEING WAIVED
*Please check all that apply
 EXISTING WATER WELLS
 DEVELOPED SPRINGS
 DWELLINGS
 AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON
Signature: Kevin E. Toothman and Martha J. Toothman
Print Name: Kevin E. Toothman and Martha J. Toothman
Date: April 13, 2016

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Well Operator: EQT Production Company Signature: _____
By: John W. Damato Telephone: _____
Its: Attorney in Fact



Subscribed and sworn before me this 13 day of April, 2016
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My Commission Expires May 06, 2024

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STATE OF WEST VIRGINIA, County of Marion,

To-Wit:

I, Janice Cosco, Clerk of the County Commission of said County, do hereby certify that the foregoing writing, with certificate thereto annexed, was this day produced to me in my office and duly admitted to record.

Witness my hand.

Janice Cosco Clerk

201600007215
Filed for Record in
MARION COUNTY, WV
OFFICE OF COUNTY CLERK
2016 APR 15 09:50 AM
WAIVER DEP
STATE TAX
COUNTY TAX
Book 1194 Page 115
DEC 02 2016
Oil and Gas

WV Department of
Environmental Protection

03/17/2017



49-02428

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin
Governor

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

November 23, 2016

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

Subject: DOH Permit for the GRT 28 Pad Site, Marion County

- | | | |
|-------------------|-------------------|-------------------|
| 512725 GRT 28 H1 | 512726 GRT 28 H2 | 512727 GRT 28 H3 |
| 513437 GRT 28 H4 | 513438 GRT 28 H5 | 513439 GRT 28 H6 |
| 516734 GRT 28 H7 | 516735 GRT 28 H8 | 516736 GRT 28 H9 |
| 516737 GRT 28 H10 | 516738 GRT 28 H11 | 516739 GRT 28 H12 |

Dear Mr. Martin,

This well site will be accessed from Permit #04-2016-0588 applied for by EQT Production Company for access to the State Road. The well site is located off of Marion County Route 15/1 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

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

RECEIVED
Office of Oil and Gas
DEC 02 2016
WV Department of
Environmental Protection

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

03/17/2017

Anticipated Frac Additives
Chemical Names and CAS numbers

49-02428

<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

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Office of Oil and Gas
DEC 02 2016
WV Department of
Environmental Protection

03/17/2017

PROJECT INFORMATION

PROJECT NAME: GRT 28
 TAX PARCEL:
 LINCOLN DISTRICT
 MAP 5
 PARCELS 37, 37.2, 37.3, & 37.6
 SURFACE OWNER:
 WALTER R. & BEULGA J. PATRICK
 TM 5 PAR 27
 LINCOLN DISTRICT
 MARION COUNTY, WV
 TOTAL PROPERTY AREA: 21.6 ACRES
 PROPOSED DISTURBANCE: 0.8 ACRES
 LARRY E. BENDON JR.
 TM 5 PAR 27
 LINCOLN DISTRICT
 MARION COUNTY, WV
 TOTAL PROPERTY AREA: 3 ACRES
 PROPOSED DISTURBANCE: 0.9 ACRES
 LUCINDA D. BENDON
 TM 5 PAR 27.3
 LINCOLN DISTRICT
 MARION COUNTY, WV
 TOTAL PROPERTY AREA: 0.99 ACRES
 PROPOSED DISTURBANCE: 0.99 ACRES
 LUCINDA D. BROWN
 TM 5 PAR 27.6
 LINCOLN DISTRICT
 MARION COUNTY, WV
 TOTAL PROPERTY AREA: 20.5 ACRES
 PROPOSED DISTURBANCE: 0.8 ACRES
 OIL AND GAS ROYALTY OWNER:
 LARRY & JUDITH KEHN, ET AL.
 LINCOLN DISTRICT
 MARION COUNTY, WV
 LEASE AREA: 221 +/- ACRES
 LEASE AREA NO: 300744



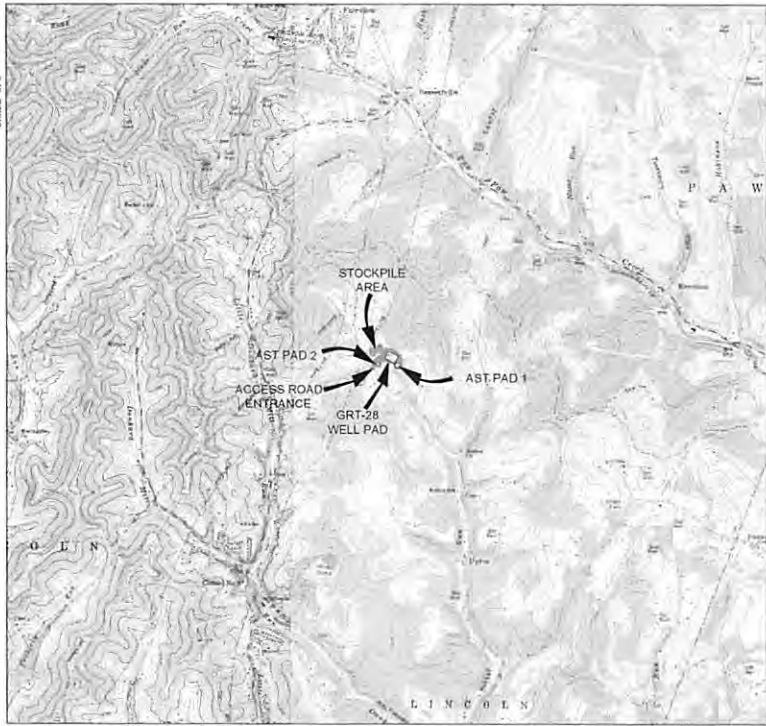
GRT-28 FINAL SITE PLAN

EQT PRODUCTION COMPANY

PROPOSED WELL NO. WV512725, WV512726, WV512727, WV513437, WV513438, WV513439, WV516734, WV516735, WV516736, WV516737, WV516738, & WV516739.

SITUATE ON THE WATERS OF BETHEL RUN IN LINCOLN DISTRICT, MARION COUNTY, WEST VIRGINIA.

GRID NORTH AND ELEVATIONS ESTABLISHED BY SURVEY GRADE UPS



MANNINGTON QUAD 2000 0 2000 GRANT TOWN QUAD
 SCALE: 1" = 2000'

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!!

LIST OF DRAWINGS

- 1 - COVER SHEET
- 2 - NOTES
- 3 - OVERALL SHEET INDEX & VOLUMES
- 4 - PRELIMINARY SITE PLAN
- 5 - ACCESS ROAD PROFILES
- 6 - MAIN ACCESS CROSS SECTIONS
- 7 - TANK PAD CROSS SECTIONS
- 8 - PRELIMINARY RECLAMATION PLAN
- 9 - CONSTRUCTION DETAILS
- 10 - CONSTRUCTION DETAILS
- 11 - CONSTRUCTION DETAILS
- 12 - CONSTRUCTION DETAILS

LEGEND	
EX INDEX CONTOUR	PROP INDEX CONTOUR
EX INTERMEDIATE CONTOUR	PROP INTERMEDIATE CONTOUR
EX BOUNDARY LINE	PROP RECLAMATION 2' CONTOUR
EX ROAD EDGE OF GRAVEL/DIRT	PROP RECLAMATION 10' CONTOUR
EX ROAD EDGE OF PAVEMENT	PROP GRADING LIMITS
EX ROAD CENTERLINE	PROP LIMITS OF DISTURBANCE
EX DITCHLINE	PROP WELL PAD
EX CULVERT	PROP WELL HEAD
EX CHAMBER	PROP 4" PVC DRAIN PIPE
EX FENCELINE	PROP PUMP DECK
EX GATE	PROP CONFINEMENT BERM
EX OVERHEAD UTILITY	PROP FIT/IMPULSION CL
EX OVERHEAD UTILITY R/W	PROP PERIMETER SAFETY FENCE
EX POWER POLE	PROP ACCESS GATE WITH EMERGENCY LIFELINE
EX GUY WIRE	
EX TELEPHONE LINE	
EX GASLINE	
EX GASLINE R/W	
EX WATERLINE	
EX WATER WELL	PROP ROCK CONSTRUCTION ENTRANCE
EX GAS WELL	
EX TRENCH	
EX REFERENCE TREE	
EX DELINEATED STREAM	PROP ROAD EDGE OF GRAVEL
EX DELINEATED WETLAND	PROP ROAD CENTERLINE
EX BUILDING	PROP V-DITCH W/ CHECK DAMS
EX BRIDGE	PROP DITCH RELIEF CULVERT (CR)
100' WETLAND/STREAM BUFFER	PROP RIP-RAP OUTLET PROTECTION
	PROP GUARDRAIL
	PROP COMPOST FILTER SOCK
	SECTION LINE
	MATCHLINE
	X-SECTION GRID INDEX
	X-SECTION GRID INTERMEDIATE
	X-SECTION PROPOSED GRADE
	X-SECTION EXISTING GRADE
	X-SECTION WATER SURFACE
	SPOT ELEVATION
	CENTER OF PAD
	PROPOSED WELL CELLAR

SITE LOCATION
 THE GRT 28 WELLS IS LOCATED BELOW THE RIDGE EAST OF CO. BY 24/1 APPROXIMATELY 0.16 MILES NORTHWEST OF THE CO. BY 24/1 AND BETHEL RUN INTERSECTION

LOCATION COORDINATES
 GRT 28 SITE ENTRANCE
 LATITUDE: 39.544227 LONGITUDE: -80.239071 (NAD 83)
 GRT 28 CENTER OF WELL PAD
 LATITUDE: 39.541438 LONGITUDE: -80.237615 (NAD 83)
 GRT 28 TANK PAD 1
 LATITUDE: 39.540608 LONGITUDE: -80.238943 (NAD 83)
 GRT 28 TANK PAD 2
 LATITUDE: 39.540608 LONGITUDE: -80.239240 (NAD 83)

SITE DISTURBANCE COMPUTATIONS
 WELL PAD AREA = 0.84 ± ACRES
 MAIN ACCESS AREA = 1.28 ± ACRES
 EXCESS STOCKPILE AREA = 1.28 ± ACRES
 TANK PAD 1 AREA W/ ACCESS = 2.97 ± ACRES (PAD & ACCESS ROAD)
 TANK PAD 2 AREA W/ ACCESS = 1.54 ± ACRES (PAD & ACCESS ROAD)
 TOTAL SITE DISTURBANCE = 16.30 ± ACRES

ENTRANCE PERMIT
 EQT PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT (FROM WM-100) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES

MISS UTILITY STATEMENT
 MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT BEGIN TEST AT 12:00PM. IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

FLOODPLAIN NOTE
 THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT IS LOCATED IN AN AREA THAT IS NOTED AS "OTHER AREAS" AND COULD BE DELINEATED EITHER ZONE B OR ZONE X ON FLOOD INSURANCE RATE MAP NUMBER 54484R0311D DATED JUNE 19, 2012.

ENVIRONMENTAL NOTES
 A WETLAND DELINEATION WAS PERFORMED ON MAY 21, 2015 BY POTTS & ASSOCIATES, INC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE MAY 21, 2014 REPORT PREPARED BY POTTS & ASSOCIATES, INC. RECOMMENDS THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE APPROPRIATE AGENCIES BE CONSULTED IN AN EFFORT TO OBTAIN WRITTEN CONFIRMATION OF THE REGULATORY JURISDICTIONS BY THIS REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILL AND STREAM CHANNELS.

GENERAL DESCRIPTION
 THE GRT-28 PAD AND TANK PADS ARE BEING CONSTRUCTED TO ADD IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

- RESTRICTIONS NOTES:**
1. STREAMS WITHIN 100 FEET OF THE PROJECT LOD
 UNT 4 - INTERMITTENT
 UNT 3 - INTERMITTENT, POTENTIALLY ISOLATED
 UNT 2 - EPHEMERAL
 DETAIL RUN - PERENNIAL
 PONDS OR WETLANDS WITHIN 100 FEET OF THE PROJECT LOD
 POND 1
 WETLAND 1
 WETLAND 1C
 WETLAND 2
 2. NO NATURALLY FLOWING TROUT STREAMS WITHIN 200 FEET OF LOD OR PAD
 3. NO CHICKENWATER INTAKES OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF PAD OR LOD
 4. NO KNOWN WELLS OR DEVELOPED SPONGES WITHIN 200 FEET OF WELL HEADS
 5. RESIDENCE IS 371 FEET FROM THE CENTER OF THE PAD. EXISTING TRAILER OUTSIDE OF THE A01 IS 843 FEET FROM THE CENTER OF THE PAD. ABANDONED HOUSE 1 IS 484 FEET FROM THE CENTER OF THE PAD
 6. SHED 1 IS 744 SQUARE FEET AND IS 323 FEET FROM THE CENTER OF THE PAD.
 7. THE EXISTING TRAILER AND HOUSE WITHIN THE 405' RADIUS HAVE SIGNED AND RECORDED WAIVERS



THIS DOCUMENT WAS PREPARED BY SMITH LAND SURVEYING FOR EQT PRODUCTION COMPANY

COVER SHEET
GRT-28 FINAL SITE PLAN
 LINCOLN DISTRICT
 MARION COUNTY, WV

DATE 5-9-18
 SCALE 1" = 2000'
 DESIGNED BY DHS
 FILE NO. 8423
 SHEET 1 OF 12
 REV. 1-04-2017

OPERATOR
 EQT PRODUCTION COMPANY
 OPERATOR ID 208896
 115 PROFESSIONAL PLACE
 P.O. BOX 250
 BRIDGEPORT, WV 26330
 PHONE (304) 348-3070

ENGINEER/SURVEYOR
 SMITH LAND SURVEYING, INC.
 12 VANHORN DRIVE
 P.O. BOX 150
 GLENVILLE, WV 26351
 PHONE (304) 462-5654

GRT-28 FINAL SITE PLAN

PROPOSED WELL NO. WV512725, WV512726, WV512727, WV513437, WV513438, WV513439, WV516734, WV516735, WV516736, WV516737, WV516738, & WV516739.

APPROVED WVDEP OOG
2/21 1/24/2017

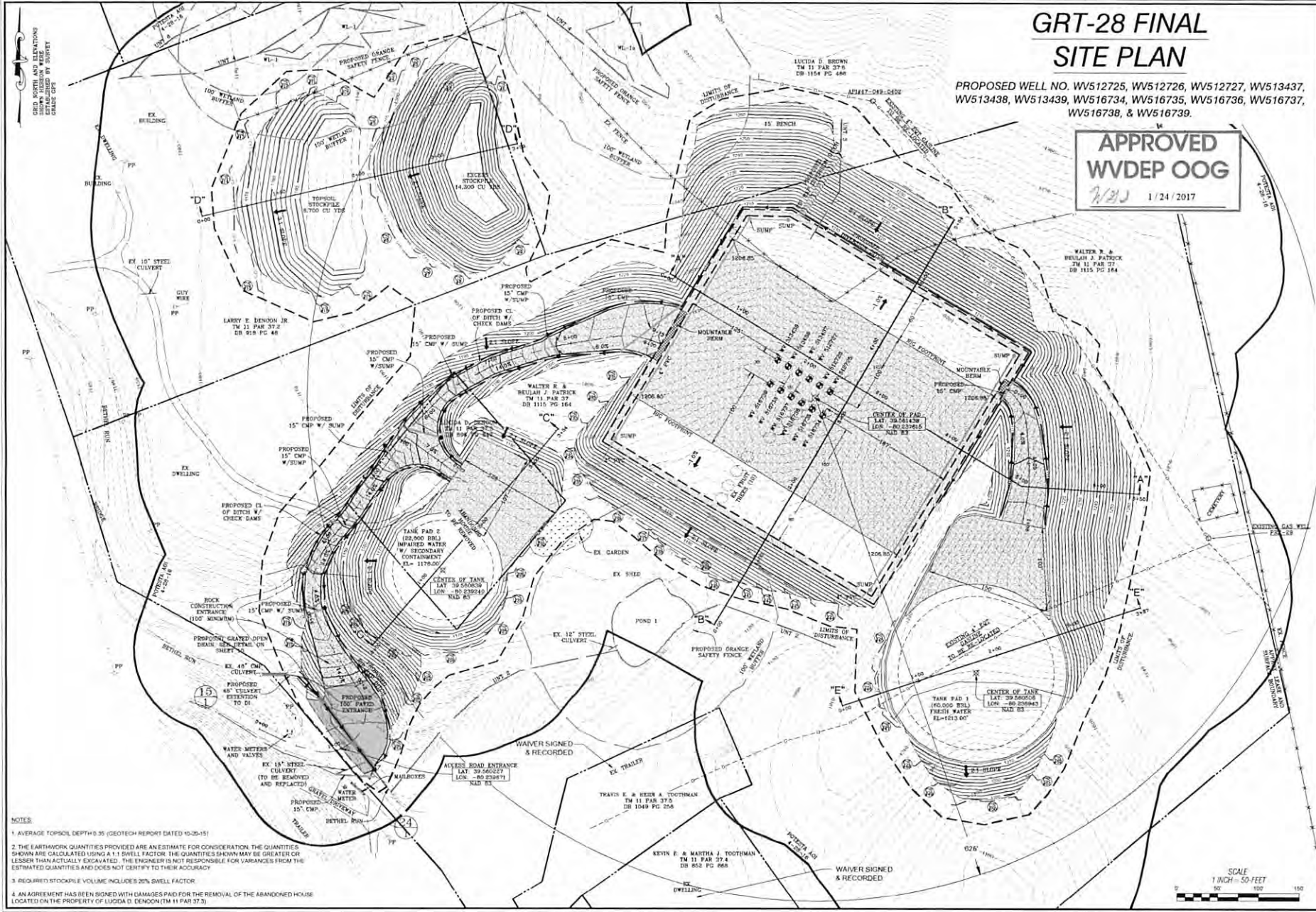
EQT
Where energy meets innovation

SLS
Lead & Energy Development

THIS DOCUMENT WAS PREPARED BY FOR EXT PRODUCTION COMPANY

GRT-28 FINAL SITE PLAN
LINCOLN DISTRICT
MARBION COUNTY, WV

DATE: 0-9-16
SCALE: 1" = 50'
DESIGNED BY: DBS
FILE NO: 8423
SHEET 4 OF 12
REV: 1-04-17



NOTES:
1. AVERAGE TOPSOIL DEPTHS 35 (GEO TECH REPORT DATED 10-25-15)
2. THE EARTHWORK QUANTITIES PROVIDED ARE AN ESTIMATE FOR CONSIDERATION. THE QUANTITIES SHOWN ARE CALCULATED USING A 1.1 SWELL FACTOR. THE QUANTITIES SHOWN MAY BE GREATER OR LESSER THAN ACTUALLY EXCAVATED. THE ENGINEER IS NOT RESPONSIBLE FOR VARIANCES FROM THE ESTIMATED QUANTITIES AND DOES NOT CERTIFY TO THEIR ACCURACY
3. REQUIRED STOCKPILE VOLUME INCLUDES 20% SWELL FACTOR
4. AN AGREEMENT HAS BEEN SIGNED WITH DAMAGES PAID FOR THE REMOVAL OF THE ABANDONED HOUSE LOCATED ON THE PROPERTY OF LUCINDA D. DENON (TM 11 PAR 37.3)



