

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 516734

47-049-02427-00-00

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: 516734

Farm Name: PATRICK, WALTER & BEULAH U.S. WELL NUMBER: 47-049-02427-00-00

Horizontal 6A / New Drill

Date Issued: 3/15/2017

Promoting a healthy environment.

API Number: 49-02427

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. <u>Failure to adhere to the specified permit</u> 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.

API Number: 49-02427

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.

API NO. 47- 049 - 02427

OPERATOR WELL NO. 516734

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 Produ	ction Company	306686	Marion	Lincoln	Grant Town	
		Operator ID	County	District	Quadrangle	
2) Operator's Well Number: 51	6734	Well	Pad Name: GF	RT28		
3) Farm Name/Surface Owner:	Walter & Beulah F	Patrick Public R	Road Access:	CR 91		
4) Elevation, current ground:	1191 EI	evation, propos	ed post-constru	ction: 1207		
5) Well Type (a) Gas X Other	Oil	U	nderground Sto	orage		
(b)If Gas Sha	allow X	Deep				
Hos	rizontal X				SDW	
6) Existing Pad: Yes or No No					12/12/2016	
 Proposed Target Formation(s Marcellus, 7612', 101', 2593 p 		ipated Thicknes	s and Expected	l Pressure(s):		
8) Proposed Total Vertical Dept	h: 7612					
9) Formation at Total Vertical D	Depth: Marcellus	;				
10) Proposed Total Measured D	epth: 11690					
11) Proposed Horizontal Leg Le	ength: 3016					
12) Approximate Fresh Water S	trata Depths:	700				
13) Method to Determine Fresh	Water Depths:	By offset wells				
14) Approximate Saltwater Dep	ths: 1308,1326,	1471				
15) Approximate Coal Seam De	pths: 29,101,15	5,229,394,464	,486,507,545			
16) Approximate Depth to Possi	ible Void (coal mi	ne, karst, other	507			
17) Does Proposed well location directly overlying or adjacent to		ns Yes		No ×		
(a) If Yes, provide Mine Info:	Name:			RECEIVE	ΞD.	
	Depth:		Off	ice of Oil a	nd Gas	
	Seam:			DEC 162	016	
	Owner:			0.15%	t of	
				/V Departn		

API NO. 47- 049 - 02427 OPERATOR WELL NO. 516734

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	3239	3239	1273 ft^3 / CTS
Production	5 1/2	New	P-110	20	11690	11690	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							

Spw 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

RECEIVED Office of Oil and Gas

DEC 1 6 2016

WV Department of Environmental Protection

WW-6B
(10/14)

API NO. 47- 049	-02427
OPERATOR V	VELL NO. 516734
Well Pad Na	me: GRT28

19)	Describe p	proposed	well v	vork, i	including	the dri	lling and	plugging	z back	of any	pilot hole:

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 5069'. 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 sturnes.

Surface (Type 1 Cement) 0-3% Calcium Chloride. Used to speed the setting of cement sturnes.

Intermediate (Type 1 Cement) 0-3% Calcium Chloride. Used to speed the setting of cement sturnes.

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 A 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 % Calculum 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 diministrat surface. Intermediate: Circulate hole clean while rotating & reciprocating the drill string with cuttings diministrat surface. Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the hakers all clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

WV Department of Environmental Protection

Well 516734(GRT28H7) EQT Production Grant Town Quad Marion County, WV

Azimuth 335

	Top Base			Casing and Cementing				Deepest Fresh Water	: 700'
Formations	TVD TVD			Туре	Conductor	Mine Protection	Surface	Intermediate	Production
Conductor	80			Hole Size, In.	30	24	17 1/2	12 3/8	8 1/2
Pittsburgh	507 - 515	~4		Casing Size, OD In.	26	18.625	13 3/8	9 5/8	5 1/2
Mine Protection	579	11111		Casing Wall Thickness, In.	0.312	0.435	0.380	0.395	0.361
Base Fresh Water	700			Depth, MD	80'	579'	800'	3,239'	11,690
Surface Casing	800	41111		Weight	85.6#	87.5#	54.5#	40#	20#
				Grade	A-500	J-55	J-55	A-500	P-110
Base Red Rock	1328	1111		New or Used	New	New	New	New	New
Maxton	1508 - 1607	1111		Burst (psi)	1378	2,250	2,700	3,950	12,640
Big Lime	1820 - 1940	1111		Cement Class	A	A / Type 1	A / Type 1	A / Type 1	Н
Big Injun	1940 - 2049	1111		Cement Yield	1.18	1.19	1.19	1.19	1.07/1.86
Weir Gantz	2130 - 2247 2434 - 2465	1111		Top of Cement (Planned)	Surface	Surface	Surface	Surface	500' above top Producing Zone
		1111		Method	Displacement	Displacement	Displacement	Displacement	Displacement
Fifty foot	2478 - 2563	1111		Est. Volume (cu ft)	98	940	650	1,273	1,094
Thirty foot Gordon	2592 - 2638 2667 - 2733	1111							Calcium Carbonate, Fluid Loss
Forth Sand	2746 - 2831	1111		Possible Additives	N/A	Calcium Chloride,	Calcium	Coloium Oblasida	Extender, Dispersent, Viscosifie
Bayard	3121 - 3189	1111		1 Ossible Additives	IN/A	LCM	Chloride	Calcium Chloride	Defoamer, POZ, Bonding Agent Retarder, Anti-Settling/Suspension
Intermediate Casing	3239	411							Agent
Warren	3308 - 3343								Agent
Speechley	3444 - 3558								
Benson Alexander Sonyea Middlesex Genesee Geneseo Tully Hamilton Marcellus Onondaga Onondaga	4832 - 5042 5130 - 5326 6982 - 7177 7177 - 7238 7238 - 7375 7375 - 7403 7403 - 7458 7458 - 7560 7560 - 7660 11690 MD 7660	Land curve @	7,612' TVD 8,673' MD		See Concussoosoosoo	SI SING COMPCIONS A SCHOOL	Est. TD @	7,612' 11,690'	TVD MD
	<u>श्रमा</u>				~				•
pposed Well Work: Il and complete a new h Il the vertical to an appro		cellus formation.			3,016		Lateral		

EQT Production

Hydraulic Fracturing Monitoring Plan

PAD ID: GRT28

Marion County, WV

8/26/16

RECEIVED
Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmented Protection

03/17/2017

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.

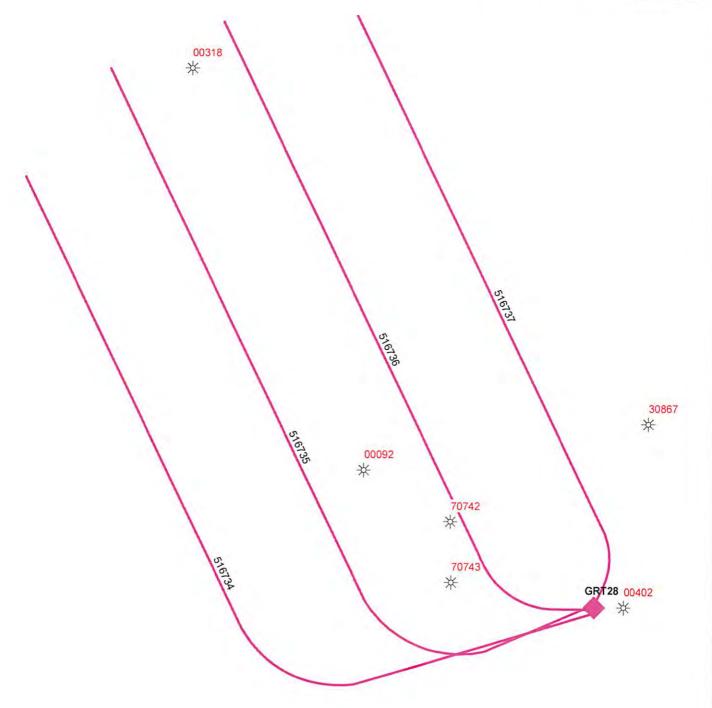
RECEIVED
Office of Oil and Gas

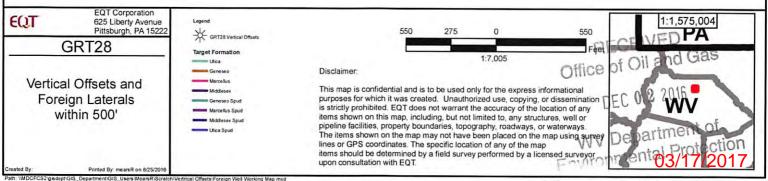
DEC 02 2016

WV Department of Environmental Protection 03/17/2017

470490242







Total Depth 2975 5363 2900 1321
SPUD_DATE TD Form Name 9/23/1912 FIFTH SAND 3/22/1976 DEVONIAN /SD/ 11/1/1941 FIFTH SAND 7/23/1917 ALLEGHENY /SERIES/
Datum Ele Datum Type Status LATITUDE LONGITUDE OPER_NAME 1275 GR DG 39,5614 -80.2372 CONSOLIDATED GAS SUPPLY CORPORATION 1388 KB DG 39,5704 -80.2465 CONSOLIDATED GAS SUPPLY CORPORATION 1187 GR D 39,5745 -80.2428 UNKNOWN 1429 GR DG 39,5645 -80.2469 UNKNOWN GR U 39,5629 -80.2409 UNKNOWN GR U 39,5619 -80.2409 UNKNOWN
19.5614 39.5614 39.5704 39.5637 39.5645 39.5629
s Status DG
Datum Ele Datum Typo 1275 GR 1388 KB 1187 GR 1429 GR GR
Nbandon Date Comp Date Operator 11/15/1912 ROSS & WHARTON 4/20/1976 EQT PRODUCTION COMPANY 3/23/1942 12/1/1941 UNKNOWN 1/30/1960 8/14/1917 UNKNOWN 18010101 UNKNOWN 18010101 UNKNOWN
andon Date 3/23/1942 1/30/1960
API 47049004020000 47049003180000 4704900320000 47049308670000 47049707420000 47049707430000

RECEIVED
Office of Oil and Gas DEC 0 2 2016

WV Department of Environmental Protection

03/17/2017

Attachment A(2)

4704902427

Perforated Formations

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

RECEIVED
Office of Oil and Gas
DEC 0 2 2016
WV Department of
Environmental Protection
03/17/2017

Attachment A(3)



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

John Centofanti Corporate Director, Environmental Affairs

(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:

- 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.
- Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified.

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

Sincerely, EQT Production

John Centofanti Corporate Director, Environmental Affairs

cc: James Martin, WV Office of Oil and Gas

RECEIVED
Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection 03/17/2017

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.

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

RECEIVED Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection

03/17/2017



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

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	í		

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
- 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.

Promoting a healthy environment.

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

Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection 03/17/201



July 14, 2016

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

Re: Casing on GRT28

Dear Mr. Smith.

EQT is requesting the 18 5/8" casing be set at 579' KB, 64' below the mined Pittsburgh coal seam and 30' below a workable coal seam. EQT is requesting the 13-3/8" casing be set at 800' KB, 100' below the deepest fresh water.

For the 9 5/8" casing string, EQT is requesting that the first well set the 9 5/8" casing at 3239' KB, 50' below the Bayard formation. Prior to cementing the 9 5/8" casing, a test will be performed to determine if the 9 5/8" casing string may be shortened. If the test is successful, the remaining wells on the pad will have 9 5/8" casing set at a shallower depth of 2297' KB, 50' below the Weir formation. If the test is unsuccessful, the remaining wells on the pad will have 9 5/8" casing set at the original set depth of 3239' KB. Upon completion of the test, the WV DEP inspector will be notified of the test results and the casing depth for the remaining wells on the pad will be discussed.

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

Sincerely,

Vicki Roark

Permitting Supervisor - WV

Enc.

MECEIVED Office of Oil and Gas DEC 0 2 2016

WV Department of

API Number	47 -	049	- 4.	
One	rator's	Wel	II No. 516734	

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 N	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit N	umber 0014, 8462, 4037
Reuse (at API Number Various	
Off Site Disposal (Supply form WW-9 Other (Explain_	for disposal location)
	loop system will remove drill cuttings from the drilling fluid. The 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. Synth	etic Mud
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, removed off	site, etc. Landfill
-If left in pit and plan to solidify what medium will be use	ed? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? See Attached Lis	i.
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided wi where it was properly disposed.	
on August 1, 2005, by the Office of Oil and Gas of the West Virgin provisions of the permit are enforceable by law. Violations of ar law or regulation can lead to enforcement action. I certify under penalty of law that I have personally exapplication form and all attachments thereto and that, based of	ditions of the GENERAL WATER POLLUTION PERMIT issued nia Department of Environmental Protection. I understand that the system or condition of the general permit and/or other applicable samined and am familiar with the information submitted on this normal management of those individuals immediately responsible for accurate, and complete. I am aware that there are significant of fine or imprisonment.
	HEGEIVED GAS
Subscribed and sworn before me this 29 day of	10 - , 20 / Cottles of Oil and Gas
My commission expires 8-24-3	OFFICIAL SEAL

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.

Office of Oil and Gas

DEC 0 2 2016

WV Department of
Environmental Protection

03/17/2017

roposed Revegetation Trea	atment: Acres Disturbed 15.0	4 Prevegetation pH	5.8
Lime 3	Tons/acre or to correct to	pH 6.5	
Fertilizer type Gra	anular 10-20-20		
Fertilizer amount_	1/3	_lbs/acre	
Mulch 2	Tc	ons/acre	
		Seed Mixtures	
T	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
rovided). If water from the creage, of the land application	pit will be land applied, include	plication (unless engineered plans include dimensions (L x W x D) of the pit, and	ing this info have bee dimensions (L x W),
laps(s) of road, location, pirovided). If water from the creage, of the land application of involvant the comments: Re- Seed Legalation.	pit will be land applied, includion area. Ived 7.5' topographic sheet. Devocated Mulch as so	plication (unless engineered plans include dimensions (L x W x D) of the pit, and e a cs reasonably paragraphy paragraphy	dimensions (L x W),
Iaps(s) of road, location, pirovided). If water from the creage, of the land application of involvant Approved by: Omments: Re-Seeo	pit will be land applied, includion area. Ived 7.5' topographic sheet. Devocated Mulch as so	e dimensions (L x W x D) of the pit, and on as reasonably p	RECEIVED
laps(s) of road, location, pirovided). If water from the creage, of the land application of involvant the comments: Re- Seed Legalation.	pit will be land applied, includion area. Ived 7.5' topographic sheet. Powerett Mulch as so parede Eds if	e dimensions (L x W x D) of the pit, and on as reasonably p	RECEIVED

WV Department of Environmental Protection 03/17/2017

EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

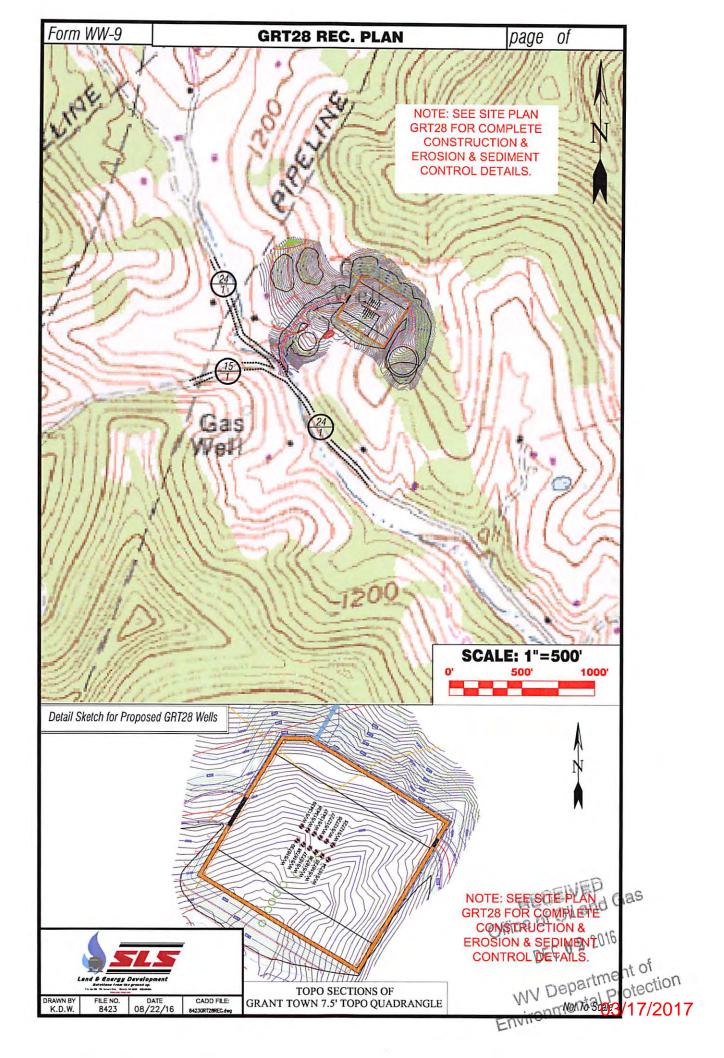
37 West Broad Street
Suite 1100
Columbus, Ohio 43215
740-516-5381
Washington County/Belpre Twp.
Permit # 8462

TRIAD ENERGY

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

KING EXCAVATING CO.

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





Site Specific Safety Plan

EQT GRT 28 Pad

Grant Town Quadrant Marion County, WV

			ls:	For Wel	_516734
Date Prepared: August 18, 2016 Sou 12/12/2 WV Oil and Gas Inspector	0/6	W 12/12/2016	SA	Date Prepared:	()en Hu
Date Office of Oil	and Gas	RECEIVED Office of Oil and G			12-5-16
		DEC 1 6 2016 WV Department of			

Environmental Protection

03/17/2017

GRT28 WV 516734 EQT PRODUCTION COMPANY

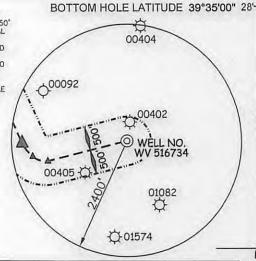
L-TM-5-14 L-TM-5-15	ROBIN TENNANT ET AL	25.28 ACRES±
	JOSEPH LONGWELL ET AL	22.76 ACRES±
L-TM-5-16	RICHARD KINCELL ET AL	7.88 ACRES±
L-TM-5-16.1	ROGER PARKER	7.88 ACRES±
L-TM-5-17	JEAN CLARK	9.26 ACRES±
L-TM-5-18	JACK & MILDRED COOK	9.24 ACRES±
L-TM-5-19	AARON & MAGGIE DENHAM	10.95 ACRES±
L-TM-5-20.2	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 CLEVENGER 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 MIJCYNOIZ	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 DISTANCES TO

EXISTING DWELLINGS WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. 3. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

TH



5,361

BH 5.00"

80°

BOTTOM HOLE LONGITUDE

TOP HOLE LONGITUDE 80°12'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH) NAD'27 S.P.C.(FT) N. 387,400.42 E. 1,791,993.76 LAT-(N) 39.561296 LONG-(W) 80.237780 NAD'27 GEO.

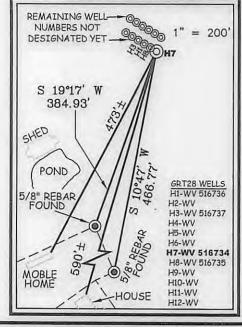
NAD'83 UTM (M) N. 4,379,353.84 E. 565,494.62 LANDING POINT

NAD'27 S.P.C.(FT) N. 387,361.72 E. 1,789,817.47 NAD'27 GEO. LAT-(N) 39.561140 LONG-(W) 80.245498 NAD'83 UTM (M) N. 4,379,330.98 E. 564,831.75 **BOTTOM HOLE**

NAD'27 S.P.C.(FT) N. 390,095.42 NAD'27 GEO. NAD'83 UTM (M) N. 4,380,157.37

E. 1,788,542.73 LAT-(N) 39.568616 LONG-(W) 80.250100 E. 564,429.50

REFERENCES



Land & Energy Development Solutions from the ground up. P.O. Box 150 + 12 Vanhom Drive + Glarville, WW 26351 + (304) 462-5634 www.slasurveys.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF M KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED

BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

CTOR MO CENS No. 849

STATE OF

NO. 849

STATE OF

NO. 849

STATE OF

NO. 849

MINIMUM DEGREE FILE NO. _ 8423P516734R.dwg 1/2500 OF ACCURACY SEE NOTE 3 SCALE HORIZONTAL & VERTICAL

CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

DATE AUGUST 25 , 20 _16 REVISED OCTOBER 11 _ , 20 _ 16 OPERATORS WELL NO. WV 516734 WELL 02427H STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED

STATES TOPOGRAPHIC MAPS.

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



TYPE:	OIL	GAS_X_	INJECTION	DISPOSAL	"GAS" PRODUCTION_X	_ STORAGE	DEEP	_ SHALLOW_	Х
LOCATI	ON: ELEVATION	(GROUND 1191') (PROPOSED) 1207'	WATERSHED_	BETHEL RUN				
	DISTRICT	LINCOLN	١	COUNTY_	MARION	QUADRANGLE	GRANT	TOWN 7.5'	
		MAINTER	O DELU ALL DATE	OK					_ >

SURFACE OWNER WALTER & BEULAH PATRICK ROYALTY OWNER __LARRY & JUDITH KUHN ET AL

ACREAGE _____21.50± 231± ACREAGE __ 300744

PROPOSED WORK:

LEASE NO. -FRACTURE OR STIMULATE X PLUG OFF OLD DRILL DEEPER_ REDRILL

__ PLUG AND ABANDON_ PERFORATE NEW FORMATION ____ _ CLEAN OUT AND REPLUG_ OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION _ **MARCELLUS** ESTIMATED DEPTH_ 7612'

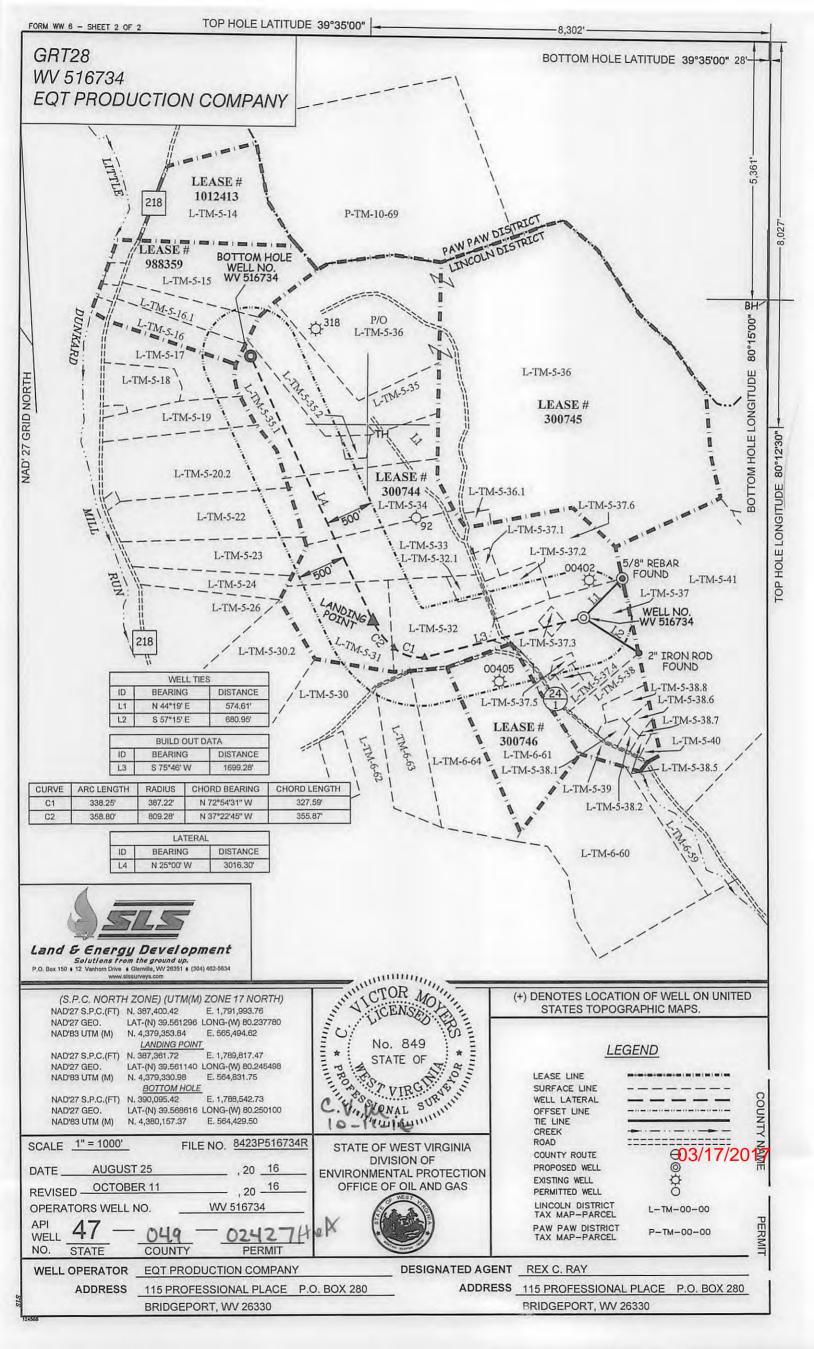
WELL OPERATOR EQT PRODUCTION COMPANY

X CONVERT _

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

DESIGNATED AGENT REX C. RAY ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

BRIDGEPORT, WV 26330



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

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

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

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

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

By: Victoria J Roark

Its: Permitting Supervisor

DEC 0 2 2016

WV Department of Environmental 03/17/2017

ease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc. Ro	oyalty	Book/Page
<u>300744</u>	Larry & Judith Kuhn, et al (current royalty owner)	***	*	
	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	ıs	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.

Office of Oil and Gas
DEC 0 2 2016

WV Department of Environmental Protection 03/17/2017



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 516734 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,

Vicki Roark

Permitting Supervisor-WV

Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection

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

Date of Notic	ce Certification: 11-30-15		API No. 47	7- 049 -	
	-			Well No. 5167	34
			Well Pad N	Name: GRT28	
Notice has l					
Pursuant to the below for the	ne provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has pro	ovided the rec	quired parties v	with the Notice Forms listed
State:	wv	UTM NAD 83	Easting:	565494.624	
County:	Marion	UTM NAD 83	Northing:	4379353.842	
District:	Lincoln	Public Road Acc		CR91	
Quadrangle:	Grant Town	Generally used t	farm name:	Walter and Beula	h Patrick
Watershed:	Bethel Run				
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface described the owners of the surface described the owner notice of entry to sof subsection (b), section sixteen to be § 22-6A-11(b), the applicant shall have been completed by the applicant	shall contain the following inf ibed in subdivisions (1), (2) a ection sixteen of this article; (urvey pursuant to subsection of this article were waived in tender proof of and certify to	Formation: (14 and (4), substill that the re (a), section to writing by	4) A certificating section (b), section (b), section (c), section (d),	on from the operator that (i) etion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the O rator has properly served the require ECK ALL THAT APPLY		this Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUI			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO PLAT SURV	YEY WAS CO	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUINOTICE OF ENTRY FOR WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER (PLEASE ATTACH		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			4.4	☐ RECEIVED
■ 5. PUE	BLIC NOTICE				☐ RECEIVED

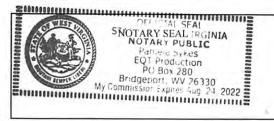
Required Attachments:

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

WV Department of Environmental Protection 03/17/2017 Certification of Notice is hereby given:

THEREFORE, I ________, 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 CompanyAddress:115 Professional Place PO Box 280By:Victoria J RoarkBridgeport WV 26330Its:Permitting SupervisorFacsimile:304-848-0041Telephone:304-848-0076Email:vroark@eqt.com



Subscribed and sworn before me this 29 day of 100 2016

_____Notary Public

My Commission Expires

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 and Gas
DEC 0 2 2016

WV Department of Environment 03/17/2017

WW-6A (9-13)

API NO. 47- 049 -	
OPERATOR WELL NO.	516734
Well Pad Name: GRT28	

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 ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL REGISTERED ☑ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL 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: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: See Attached Name: See Attached Address: Address: COAL OPERATOR Name: Name: Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) ☑ SURFACE OWNER OF WATER WELL Name: See Attached Address: AND/OR WATER PURVEYOR(s) Name: See Attached Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD REGEIVED SURFACE OWNER(s) (Impoundments or Pits) Name: Office of Oil and Gas Name: See Attached Address: *Please attach additional forms if necessary 0 2 2016 Address:

> WV Department of Environmental Protection 03/17/2017

Surface Owners:

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





RECEIVED
Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection

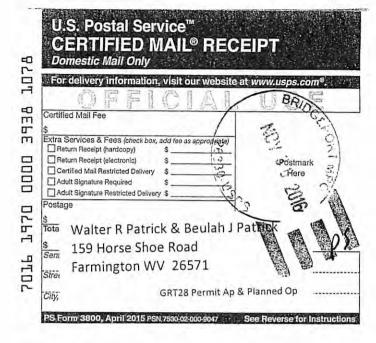
03/17/2017

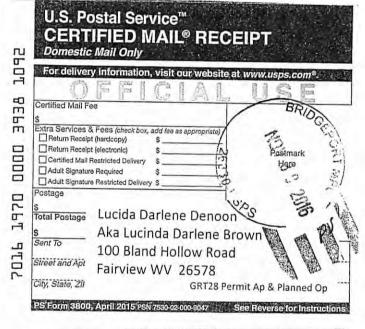
Surface Owners (road or other disturbance):

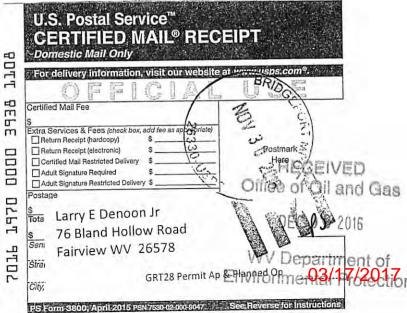
Walter R. Patrick and Beulah J. Patrick 159 Horse Shoe Road Farmington, WV 26571

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









Surface Owners (Pits or impoundments):

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

265	U.S. Postal Service [™]
	CERTIFIED MAIL® RECEIPT
2000	Domestic Mail Only
支	For delivery information, visit our website at www.usps.com®.
	OFFICIAL WERE
CE	ertified Mail Fee
\$	ktra Services & Fees (check box, add fee as approduate)
I	Return Receipt (hardcopy) \$
I	Return Receipt (electronic) \$ Prostmark Certified Mail Restricted Delivery \$ Presented Delivery
1	Adult Signature Required \$
	Adult Signature Restricted Delivery \$
P	ostage
\$	ota Walter R Patrick & Beulah J Patrick
\$	159 Horse Shoe Road
S	
L.	Farmington WV 26571
1S	GRT28 Permit Ap & Planned Op

Office of Oil and Gas
DEC 0 2 2016

WV Department of Environmental Protection 03/17/2017

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

RECEIVED
Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection

Owners of Water Wells

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

	tic Mail Only	经国际的
For deliv	ery information, visit our website at www.us	sps.com°.
Return Red Return Red Certified M Adult Signa	es & Fees (check box, add fee as appropriate) sept (hardcopy) sept (electronic)	South All All All All All All All All All Al
Postage \$ Total Posta \$ Sent To	Harry "Wayne" Bland 148 Bland Hollow Rd Fairview WV 26570	038g

Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection 03/17/2017

WW-6/	١
(8-13)	

API NO. 47- <u>049</u>	
OPERATOR WELL NO.	516734
Well Pad Name: GRT28	

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

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 Specific Washelmit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that, the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the literature.

Environmental Protection 03/17/2017

WW-6A (8-13)

API NO. 47-049

OPERATOR WELL NO. 516734

Well Pad Name: GRT28

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



HEBEIVED

WW-6A (8-13) API NO. 47-<u>049</u>

OPERATOR WELL NO. 516734

Well Pad Name: GRT28

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.

REGEIVED
Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection 03/17/2017

WW-6A	
(8-13)	

API NO. 47-049	
OPERATOR WE	ELL NO. 516734
Well Pad Name:	GRT28

BT				
Notice	18	hereby	given	by:

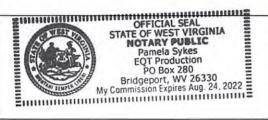
Well Operator: EQT Production Company	Address: 115 Professional Place PO Box 280		
Telephone: 304-848-0076	Bridgeport WV 26330		
Email: vroark@eqt.com	Facsimile: 304-848-0041		

Oil and Gas Privacy Notice:

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

My Commission Expires

DEP's Chief Privacy Officer at $\underline{\text{depprivacyofficer} @wv. gov}.$

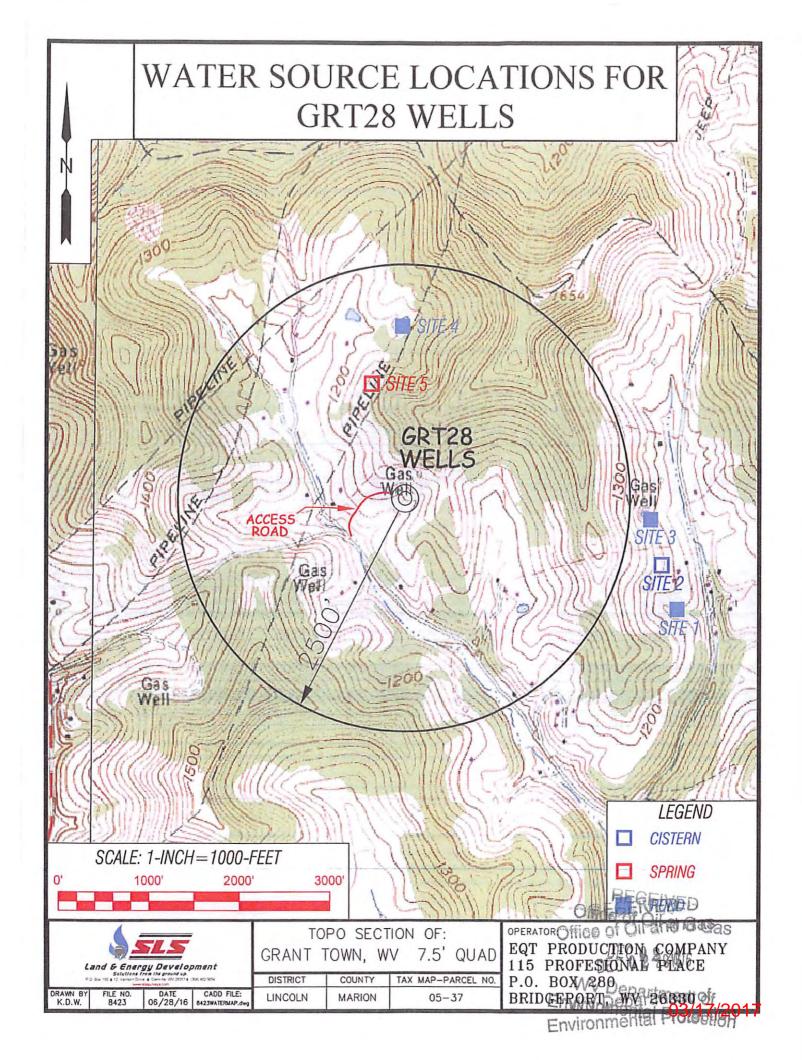


Subscribed and sworn before me this 39 day of Nov. 2016 Notary Public

8.24.22

REGEIVED
Office of Oil and Gas
DEC 0 2 2016

WV Department of Environmental 03/15/12017



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

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

Date of Noti	Requirement: Notice shall be provided ce: 08/19/2016 Date P	at least TEN (10) days prior to filing a termit Application Filed: 08/29/2016	a permit application.
Delivery me	thod pursuant to West Virginia Code {	§ 22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVI		EQUESTED	
receipt reque drilling a hor of this subsec subsection m	sted or hand delivery, give the surface or rizontal well: <i>Provided</i> , That notice give ction as of the date the notice was provid	wner notice of its intent to enter upon to en pursuant to subsection (a), section to led to the surface owner: <i>Provided, how</i> wner. The notice, if required, shall inc	, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	ereby provided to the SURFACE O	WNER(s):	
Name: See atta		Name: See attached.	
Address:		Address:	
	wner's land for the purpose of drilling a l		
State: County: District: Quadrangle: Watershed:	Marion Lincoln Grant Town Bethel Run	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	565494.624 4379353.842 CR91 Walter and Beulah Patrick
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nuitelated to hor	Marion Lincoln Grant Town Bethel Run Shall Include: West Virginia Code § 22-6A-16(b), thi mber and electronic mail address of the rizontal drilling may be obtained from t	Public Road Access: Generally used farm name: is notice shall include the name, add a operator and the operator's authoriz the Secretary, at the WV Department of	4379353.842 CR91
County: District: Quadrangle: Watershed: This Notice Pursuant to value of the count of the coun	Marion Lincoln Grant Town Bethel Run Shall Include: West Virginia Code § 22-6A-16(b), thi mber and electronic mail address of the rizontal drilling may be obtained from t 1 57 th Street, SE, Charleston, WV 25304 ereby given by:	Public Road Access: Generally used farm name: is notice shall include the name, add a operator and the operator's authoriz the Secretary, at the WV Department of	4379353.842 CR91 Walter and Beulah Patrick ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters,
County: District: Quadrangle: Watershed: This Notice Pursuant to Valenciated to hoo located at 60 Notice is he	Marion Lincoln Grant Town Bethel Run Shall Include: West Virginia Code § 22-6A-16(b), thi mber and electronic mail address of the rizontal drilling may be obtained from t 1 57th Street, SE, Charleston, WV 25304	Public Road Access: Generally used farm name: is notice shall include the name, add a operator and the operator's authoriz the Secretary, at the WV Department of	CR91 Walter and Beulah Patrick ress, telephone number, and if available, sed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to value of the count of the coun	Marion Lincoln Grant Town Bethel Run Shall Include: West Virginia Code § 22-6A-16(b), thi mber and electronic mail address of the rizontal drilling may be obtained from t 1 57 th Street, SE, Charleston, WV 25304 ereby given by:	Public Road Access: Generally used farm name: is notice shall include the name, add to operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.de	CR91 Walter and Beulah Patrick ress, telephone number, and if available, sed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hoo located at 60 Notice is he Well Operato Address: Bridgeport WV 2	Marion Lincoln Grant Town Bethel Run Shall Include: West Virginia Code § 22-6A-16(b), this are and electronic mail address of the rizontal drilling may be obtained from the street of the street	Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.de Authorized Representative: Address: Bridgeport WV 26330	Walter and Beulah Patrick ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nui related to hol located at 60 Notice is he Well Operato Address:	Marion Lincoln Grant Town Bethel Run Shall Include: West Virginia Code § 22-6A-16(b), this are and electronic mail address of the rizontal drilling may be obtained from the street of the street	Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.de Authorized Representative: Address:	Walter and Beulah Patrick ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hoo located at 60 Notice is he Well Operato Address: Bridgeport WV 2	Marion Lincoln Grant Town Bethel Run Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the rizontal drilling may be obtained from to 157th Street, SE, Charleston, WV 25304 Pereby given by: DT: EQT Production Company 115 Professional Place PO Box 280 16330	Public Road Access: Generally used farm name: is notice shall include the name, adde operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.de Authorized Representative: Address: Bridgeport WV 26330	CR91 Walter and Beulah Patrick ress, telephone number, and if available, sed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Victoria Roark 115 Professional Place PO Box 280

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 of the office will appropriately secure your personal information. If you have any questions about our use or your personal information. DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

DEC 0 2 2016

WV Department of 7/2017 Environmental Protection

Surface Owners:

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

U.S. Postal Service CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Cartified Mail Fee

Services & Fees (check box, add fee at appropriate)

Return Receipt (lectronic)

Return Receipt (lectronic

Office of Oil and Gas

WV Departigram/2017 Environmental Protection

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





Surface Owners (Pits or impoundments): (AST)

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



WW-6A5 (1/12)

Operator Well No. 516734

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

Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(c)		
■ CERTI	FIED MAIL] HAND		
RETU	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned required to be drilling of a damages to tl (d) The notic of notice. Notice is her	requested or hand delivery, give the sur- operation. The notice required by this e provided by subsection (b), section ten horizontal well; and (3) A proposed sur- ne surface affected by oil and gas operati- es required by this section shall be given eby provided to the SURFACE OWN	face owner whose land subsection shall inclused this article to a surface use and compensons to the extent the data to the surface owner.	d will be used for de: (1) A copy face owner whose sation agreement amages are com	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	s listed in the records of the sheriff at the		See Attached	
Name, See Alla				
Name: See Alta Address: Notice is her Pursuant to V	eby given: /est Virginia Code § 22-6A-16(c), notice	Addres	s:	well operator has developed a planned
Address: Notice is her Pursuant to V operation on State:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose w	Addres is hereby given that the of drilling a horizontal	ne undersigned all well on the tra	well operator has developed a planned act of land as follows: 565494.624
Address: Notice is her Pursuant to V operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose W Marion	Addres is hereby given that the of drilling a horizonta UTM NAD 8	ne undersigned of well on the trace as Easting: Northing:	well operator has developed a planned act of land as follows: 565494.624 4379353.842
Notice is her Pursuant to V operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose WW Marion Lincoln	Addres is hereby given that the of drilling a horizonta UTM NAD 8	ne undersigned of all well on the trace as Easting: Northing:	well operator has developed a planned act of land as follows: 565494.624 4379353.842 CR91
Address: Notice is her Pursuant to V operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose W Marion	Addres is hereby given that the of drilling a horizonta UTM NAD 8	ne undersigned of well on the trace as Easting: Northing:	well operator has developed a planned act of land as follows: 565494.624 4379353.842
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r	eby given: //est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose www. Marion Lincoln Grant Town Bethel Run Shall Include: //est Virginia Code § 22-6A-16(c), this need by W. Va. Code § 22-6A-10(b) to a code with the code of	Addres is hereby given that the of drilling a horizontal UTM NAD 8 Public Road Generally use ootice shall include: (1) surface owner whose compensation agreement the damages are contained from the Secret	ne undersigned all well on the transitions: Basting: Northing: Access: End farm name: A copy of this is a land will be understand are containing an arry, at the WV	well operator has developed a planned act of land as follows: 565494.624 4379353.842 CR91
Notice is her Pursuant to Voperation on State: County: District: Quadrangle: Watershed: This Notice Sepursuant to Voto be provide thorizontal we surface affect information readquarters, gas/pages/def	eby given: //est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose www. Marion Lincoln Grant Town Bethel Run Shall Include: //est Virginia Code § 22-6A-16(c), this med by W. Va. Code § 22-6A-10(b) to a sell; and (3) A proposed surface use and code by oil and gas operations to the external elected to horizontal drilling may be obtained at 601 57th Street, SE, Charault.aspx.	Addres is hereby given that the of drilling a horizonta UTM NAD 8 Public Road Generally use otice shall include: (1 surface owner whose compensation agreement the damages are contained from the Secretarieston, WV 25304	ne undersigned all well on the transitions: Basting: Northing: Access: End farm name: A copy of this er land will be understand arry, at the WV (304-926-0450)	well operator has developed a planned act of land as follows: 565494.624 4379353.842 CR91 Walter and Beulah Patrick code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice Sursuant to V to be provide horizontal we surface affect information readquarters,	eby given: //est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose w/ Marion Lincoln Grant Town Bethel Run Shall Include: //est Virginia Code § 22-6A-16(c), this need by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and cell; and (3) A proposed surface use and cell to horizontal drilling may be obtolocated at 601 57th Street, SE, Characteristics.	Addres is hereby given that the of drilling a horizontal UTM NAD 8 Public Road Generally use ootice shall include: (1) surface owner whose compensation agreement the damages are contained from the Secret	ne undersigned all well on the transitions: Basting: Northing: Access: End farm name: A copy of this is a land will be understand are containing an arry, at the WV	well operator has developed a planned act of land as follows: 565494.624 4379353.842 CR91 Walter and Beulah Patrick code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-ace-PO-Box 280

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

Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental 03747/2017

Surface Owners:

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

	ALL WAS A PROPERTY OF THE PROP
	or delivery information, visit our website at www.usps.com®
Certi	ified Mail Fee
\$ Evtr	Sandan 8 5
ш,	a Services & Fees (check box, add fee as approducte) Return Receipt (hardcopy)
	Return Receipt (electronic) \$
	Adult Signature Required \$
Posta	Idult Signature Restricted Delivery \$
	5, 5,
\$ Tota	Walter R Patrick & Beulah J Patrick
	150 Haves Chan Dand
Seni	159 Horse Shoe Road

RECEIVED Office of Oil and Gas

DEC 0 2 2016

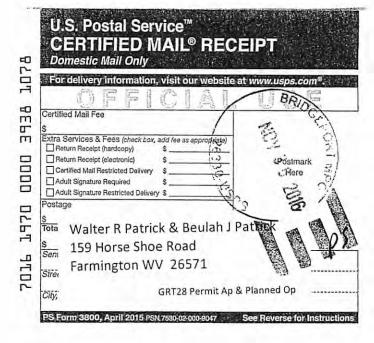
WV Department of Environmenta P3/1/2017

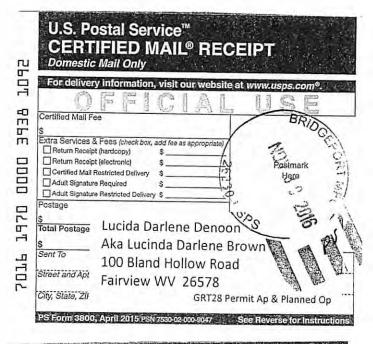
Surface Owners (road or other disturbance):

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









Surface Owners (Pits or impoundments):

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

	mestic Mail Only	
For	delivery information, visit our website at www.usps.com®	1.8
	OFFICIALUBRA	
Certifie	ed Mail Fee	1.
\$ Extra \$	Services & Fees (check box, add fee as appropriate)	0/
Ref	turn Receipt (hardcopy) \$	-
	turn Receipt (electronic) \$ Postmark rtified Mail Restricted Delivery \$ Here	3/
	ult Signature Required \$	7.3
Posta	ult Signature Restricted Delivery \$	A
\$	W. Hard D. Datrick & Beulah I Patrick	A
		0
Seni		1
	= instan \\\\\ /hh/\	
Tota \$	Walter R Patrick & Beulah J Patrick 159 Horse Shoe Road Farmington WV 26571	A STATE OF THE PARTY OF THE PAR
Stree	Farmingfoll MA 402/1	

RECEIVED Office of Oil and Gas

DEC 0 2 2016

WV Depagg/47/2017 Environmental Protection 1194 114

20140000001

API NO. 47- 49. 02427
OPERATOR WELL NO. 516734
Well Pad Name: GRT 28

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.

include insurance, bonding and indemnification,	as well as technical requirements.	nd property. The terms and conditions ma
	WAIVER	
I, Kevn E Toothman and Martha J Toothman, hereby state that I provisions listed above, and that I have received a WW-6A and attachments consisting of pages one required, and the well plat, all for proposed well visite: West Virginia	I have read the Instructions to Persons Nai copies of a Notice of Application, an Appl (1) through , including the	ication for a Well Work Permit on Form
County: Marion	UTM NAD 83 Northing:	4379353.842
District: Lincoln	Public Road Access:	CR 24/1
Quadrangle: Fairmont West	Generally used farm name:	
Watershed: Dunkard Mill Run		
I further state that I have no objection to the plant issued on those materials and I therefore waive al	ned work described in these materials, and I well site restrictions listed under West V	I have no objection to a permit being irginia Code § 22-6A-12(a).
WELL SITE RESTRICTIONS BEING WAIV *Please check all that apply □ EXISTING WATER WELLS □ DEVELOPED SPRINGS □ DWELLINGS □ AGRICULTURAL BUILDINGS	FOR EXECUT Signature Print Name: Kow Date: April 13, 2016 FOR EXECUT Company: By: Its: Signature: Date: Date:	ION BY A NATURAL PERSON Light Mouth J Joseph E. Toothman and Martha J. Tobhman
Well Operator: EQT Production Company	Signature:	fa-
By; John W. Damalo Its: Attorney in Fact	Telephone:	
OFFICIAL SEAL Notary Public, State Of West Virginia JOSEPH D OLIVERIO 13 Militbrook Rd Bridgeport, WV 26330 My Commission Expires May 06, 2024 Oil and Gas Privacy Notice:	Subscribed and sworn before me this 13 Joseph D. Oliverio My Commission Expires May 06, 2024	day of April, 2016 Notary Public

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.

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.

Janue Esses Clerk

201.500007214
Filed for Record in
MARIUN 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 114 - 114

RECEIVED
Office of Oil and Gas

DEC 0 2 2016

 5

1194

201600007202

APINO. 47-49-62427
OPERATOR WELL NO. 516734
Well Pad Name: GRT 28

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

WW-6A and a	ttachments consisting of pages one the well plat, all for proposed well v	: (1) through	, including the	lication for a Well Work Permit on Form erosion and sediment control plan, if
	West Virginia		AD 83 Easting:	565494.624
County:	Marion		AD 83 Northing:	4379353.842
District:	Lincoln		oad Access:	CR 24/1
Quadrangle:	Fairmont West	Generall	used farm name:	Toothman
	Dunkard Mill Run			
issued on those	materials and I therefore waive al	l well site restrictions l	isted under West V	
	RESTRICTIONS BEING WAIV	ED	FOR EXECUT	ION BY A NATURAL PERSON
*Please check	G WATER WELLS		Print Name: Tran	vis E. Toothman and Holdi A. Toothman
☐ DEVELO	PED SPRINGS			TON BY A CORPORATION, ETC.
DWELLI	INGS		Ву:	
☐ AGRICUI	LTURAL BUILDINGS			
Well Operator:	EQT Production Company	Sign	ature:	Da 5M
By: John W. Damat	0	Teler	phone:	
Its: Attorney in Fact				
No	OFFICIAL SEAL plary Public, State Of West Virginia JOSEPH D OLIVERIO 13 Millibrook Rd Bridgeport, WY 26330 Commission Expires May 06, 2024	Subscribed and swor	Josh D.	day of April. 2016Notary Public

dress 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.

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.

Janue Esses Clerk

201600007202 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 1194 Page 102 -

RECEIVED Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Earl Ray Tomblin Governor

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,

Regional Maintenance Engineer RECEIVED
Central Office Open C Central Office O&G Coordinators of Oil and Gas

Day K. Clayton

DEC 0 2 2016

Nick Bumgardner Cc:

EQT Production Company

CH, OM, D-4, File

03/17/2017

WW Department of Environments protection

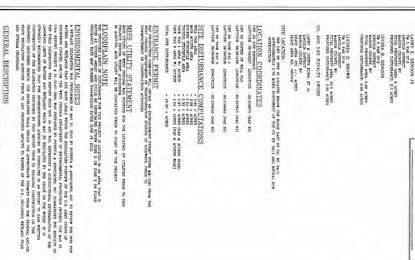
Anticipated Frac Additives Chemical Names and CAS numbers

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

RECEIVED
Office of Oil and Gas

DEC 0 2 2016

WV Department of Environmental Protection 03/17/2017



EQT PRODUCTION COMPANY **GRT-28 FINAL SITE** PLAN

PROJECT NAME: GRT 28 PROJECT INFORMATION

RFACE OWNER

MARCH CROWTS, WY
MARCH CROWTS, WY
MOTAL PROPERTY ANALY 25 ACRES
PROPOSED DISTURBANCE 11-2 ACRES WALTER R. & BEULAG & PATRICK TH & PAR 37 MAP 5 PARCELS 37, 372, 373, 4: 376

> WVDEP OOG APPROVED

(21) 1/24/2017

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

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



ENTER CONTOUR EN TERMEDIATE CONTOUR
UNDARY LINE
UNDARY LINE
AD EDGE OF GRAVEL/D
AD EDGE OF FAVEMENT
AD CENTERLINE
COLLINE PROFESSIONAL CONTROL OF THE CONTROL X-SECTION WELL CELLAR
PROPOSED WILL CELLAR
X-SECTION MINISTRACE
X-SECTION GEN NOZ.
X-SECTION MINISTRACE
X-S PROP ROCK CONSTRU ENTRANCE OUTLET PROTECTION LIMITS ----•

EGT PRODUCTION COMPANY
OPERATUR ID 3006H6
115 PROFESSIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WY 26330
PHONE (304) 348-3870 OPERATOR

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

S. ACCEPANT 2 IS 771 FEET FROM THE CONTROL OF HE FAD. CONTROL THAILER OFFICES OF THE FAD. THET FROM THE CONTROL OF THE FAD. ANALOSCUES DESIGN. I IS 454 ATEL FROM THE CONTROL OF THE FAD.

8. SHED I IS 744 SQUARE TREE AND IS 320 FEET FROM THE CONTROL OF THE FAD.

STEELANS WITHIN 200 PERT OF LOO OR PAD OF PAD OR LIED

RESTRICTIONS NOTES

STREAMS WINES 100 FEET OF THE PROJECT LICE
UPT 2 - DPHEMERAL
MITTELL ROW - PEDENNELL
MITTELL ROW - PEDENNELL
MITTELL ROW - PEDENNELL

PORCE OR WITHAUT WITHOU IND PERT OF THE PROJECT LOS PROJE 1 WITHAUT IS WITHAUT IS

THE CHT-28 PAD AND TANK PADS AND BEING

SMITH LAND SURVEYING, I 12 VANHORN DRIVE PO BOX 150 GLENVILLE WV 26351 PHONE (304) 462-5634 ENGINEER/SURVEYOR

> SCALE 1" - 2000" THE NO. ESIGNED BY DES

8422

COVER SHEET GRT-28 FINAL SITE PLAN

COMPANY







LIST OF DRAWINGS

COVER SHEET

TANK PAD CHOSS SECTIONS CONSTRUCTION DETAILS

PRELIMINARY RECLAMATION PLAN

CONSTRUCTION DETAILS

ACCESS ROAD PROFILES PRELIMINARY SITE PLAN OVERALL SHEET INDEX & VOLUMES

MARION COUNTY, WY

LINCOLN DISTRICT

