



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

Tuesday, May 30, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for 516192
47-061-01762-00-00

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: 516192
Farm Name: LAWSON, GORDON W. & SHELIA M.
U.S. WELL NUMBER: 47-061-01762-00-00
Horizontal 6A / New Drill
Date Issued: 5/30/2017

Promoting a healthy environment.

06/02/2017

PERMIT CONDITIONS⁴⁷⁰⁰⁰⁰⁰⁰⁰²

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

CONDITIONS

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

PERMIT CONDITIONS 47 0 6 1 0 1 7 0 2

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.

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

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

2) Operator's Well Number: 516192 Well Pad Name: RVS14

3) Farm Name/Surface Owner: Gordon w & Sheila Lawson Public Road Access: US-19

4) Elevation, current ground: 1158.0 Elevation, proposed post-construction: 1157.0

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

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No No *MLK 2/13/2017*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7496', 136', 2593 PSI

8) Proposed Total Vertical Depth: 7496

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14418

11) Proposed Horizontal Leg Length: 5979

12) Approximate Fresh Water Strata Depths: 110

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

14) Approximate Saltwater Depths: 1355, 1435

15) Approximate Coal Seam Depths: 189, 394, 462'

16) Approximate Depth to Possible Void (coal mine, karst, other): 462' (Pittsburgh)

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

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

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	90	90	110 ft ³ / CTS
Fresh Water	18 5/8	New	J-55	87.5	300	300	487 ft ³ / CTS
Coal	13 3/8	New	J-55	54.5	520	520	441 ft ³ /CTS
Intermediate	9 5/8	New	A-500	40	2820	2820	1116 ft ³ / CTS
Production	5 1/2	New	P-110	20	14418	14418	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							

MJK 2/13/2017

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 2014-17	1.19
Coal	13 3/8	17 1/2	.38	2700	2160	See Variance 2014-17	1.19
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance 2014-17	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 5308'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

Mine Void Cement Plan:

-Run cement basket above potential mine void. If no cement is returned during the cement job, run 1" tubing to the top of the basket and grout cement to surface.

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): 25.6

22) Area to be disturbed for well pad only, less access road (acres): 11.94

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Mine Protection: 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
Surface (Type 1 Cement) 0-3% Calcium Chloride Used to speed the setting of cement slurries
Mine Protection (Type 1 Cement) 0-3% Calcium Chloride Used to speed the setting of cement slurries
Intermediate (Type 1 Cement) 0-3% Calcium Chloride Used to speed the setting of cement slurries
Production
Lead (Class A Cement) 0.2% CD-20 (dispersant makes cement easier to mix) 15% SuperFL-300 (fluid loss/lengthens thickening time) 15% SEC-10 (fluid loss) 50 50 POZ (extender)
Tail (Class H Cement) 0.2% Super CR-1 (Retarder) Lengthens thickening time 3% Super FL-200 (fluid loss) 2% SEC-10 (Fluid loss) .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation 60 % Calcium Carbonate Acid solubility

25) Proposed borehole conditioning procedures:

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

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

*Note: Attach additional sheets as needed.

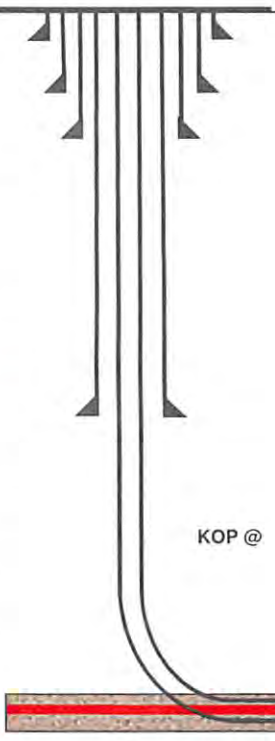
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Well 516192(RVS14H1)
 ECT Production
 Rivesville Quad
 Monongalia County, WV

Azimuth 335
 Vertical Section 7083

Note: Diagram is not to scale

Formations	Top TVD	Base TVD
Conductor	90	
Base Fresh Water	110	
Surface Casing	300'	
Mine Casing	520'	
Maxton	1281 - 1357	
Big Lime	1598 - 1678	
Big Injun	1680 - 1833	
Weir	1911 - 1932	
Gantz	2219 - 2249	
Fifty foot	2269 - 2323	
Thirty foot	2385 - 2429	
Gordon	2469 - 2495	
Forth Sand	2511 - 2542	
Base Red Rock	2677	
Bayard	2734 - 2770	
Intermediate Casing	2820	
Speechley	3235 - 3336	
Balltown A	3370 - 3555	
Riley	3997 - 4074	
Benson	4660 - 4780	
Alexander	5221 - 5256	
Sonyea	6849 - 7036	
Middlesex	7036 - 7103	
Genesee	7103 - 7239	
Geneseo	7239 - 7270	
Tully	7270 - 7329	
Hamilton	7329 - 7400	
Marcellus	7400 - 7535	
Production Casing	1441B MD	
Onondaga	7535	



Casing and Cementing					
Type	Conductor	Surface	Mine	Intermediate	Production
Hole Size, In.	30	24	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	26	18.625	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.312	0.435	0.380	0.395	0.361
Depth, MD	90'	300'	520'	2,820'	14,418'
Weight	85.6#	87.5#	54.5#	40#	20#
Grade	A-500	J-55	J-55	A-500	P-110
New or Used	New	New	New	New	New
Burst (psi)	884	2,250	2,700	3,950	12,640
Cement Class	A	A / Type 1	A / Type 1	A / Type 1	A / H
Cement Yield	1.18	1.19	1.19	1.19	1.123 / 2.098
Top of Cement (Planned)	Surface	Surface	Surface	Surface	500' above top Producing Zone
Method	Displacement	Displacement	Balanced/1" Grout	Displacement	Displacement
Est. Volume (cu ft)	110	487	441	1,116	2,841
Possible Additives	N/A	Calcium Chloride, LCM	Calcium Chloride	Calcium Chloride	Calcium Chloride, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

Deepest Fresh Water: 110'

KOP @ 5,308'

Land curve @ 7,496' TVD
 8,439' MD

Est. TD @ 7,496' TVD
 14,418' MD

Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 5308'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

5,979' Lateral

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EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: RVS14
Monongalia County, WV

12/2/16

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Purpose

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The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Monongalia County, WV prior to hydraulic fracturing at the following EQT wells on RVS14 pad: 516192, 516193, 516194 & 516195

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation. A report is required to be submitted along with a well work permit application.

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 coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures 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 Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

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 or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

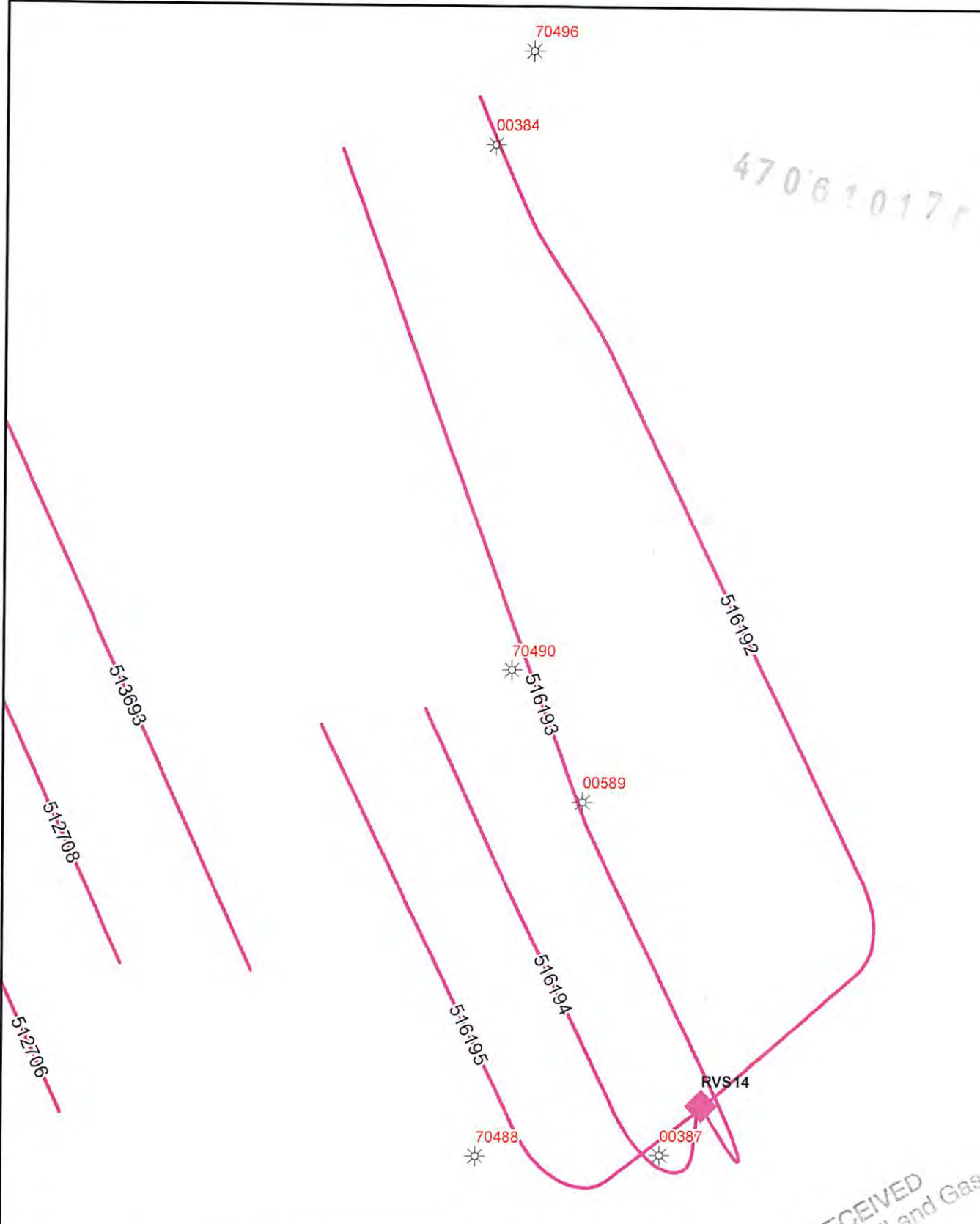
2. Reporting

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

UWI	COMP DATE	COUNTY_NM	CURR_OPER	ELEVATION	ELEV_REF_CD	FNL_STAT	HOLE_DIR	LAST_ACT	LATITUDE	LONGITUDE	LSE_NAME	OPER_NAME	PERMIT_DT	PROJ_FM_NM	PROJ_TD	SPUD_DATE	TD_FORM_NM	Permit
4706100384	8/14/1913	MONONGALIA	EDT PRODUCTION COMPANY	1120 GR	GAS	V		2/13/2015	39.6143	-80.1088	N MITCHELL	CONSOLIDATED GAS SUPPLY CORPORATION	5/15/1913		0	5/30/1913	CHEMUNG	00384
4706100387	2/13/1915	MONONGALIA	EDT PRODUCTION COMPANY	1115 GR	GAS	V		2/13/2015	39.5952	-80.1049	A ARNETT	CONSOLIDATED GAS SUPPLY CORPORATION	12/16/1914		0	12/31/1914	HAMPSHIRE	00387
4706100589	2/5/1980	MONONGALIA	PETROLEUM DEVELOPMENT CORPORATION	1100 GR	GAS	V		5/21/2015	39.6019	-80.1067	BARBE JESSIE	PETROLEUM DEVELOPMENT CORPORATION	1/2/1980	5100	5100	1/12/1980	DEVONIAN	00589
4706170488		MONONGALIA	HOPE NATURAL GAS		UNKWN	V		2/2/2015	39.5952	-80.1094	FRENCH E BARRY	HOPE NATURAL GAS			0			70488
4706170490		MONONGALIA	CARNEGIE NATURAL GAS CORPORATION		UNKWN	V		1/15/2015	39.6044	-80.1084	JESSIE L BARB 1	CARNEGIE NATURAL GAS CORPORATION			0			70490
4706170496		MONONGALIA	UNKNOWN		UNKWN	V		1/20/2015	39.6160	-80.1079	A J TRICKETT 1	UNKNOWN			0			70496

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Attachment 1(1)



EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

RVS14 Pad

Vertical Offsets and Foreign Laterals within 500'

- Legend
- RVS 14 Vertical Offsets
 - GENESD
 - MARCELLUS
 - MIDDLESEX
 - POINT PLEASANT
 - UTICA



Disclaimer:

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





west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

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CONCLUSIONS OF LAW

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

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

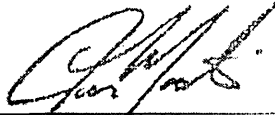
ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

4706101762

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well
516192(RVS14H1)

v 2016 5

Drilling Objectives: Marcellus
County: Monongalia
Quad: Rivesville
Elevation: 1170 KB 1157 GL
Surface location Northing: 399820.04 Easting: 1829846.48
Landing Point Northing: 401362.06 Easting: 1830955.18
Toe location Northing: 406747.75 Easting: 1828371.92
Recommended Azimuth 335 Degrees

TVD: 7496
Recommended LP to TD: 5,979'

Proposed Logging Suite: @ Intermediate Casing Point: The open hole logs need to consist of Gamma Ray, Neutron, Density, and Induction CONTACT JEFF DEREUME PRIOR TO LOGGING (412.328.5054)
 @ Pilothole TD - Run OH logs for evaluation of uphole zones.
 An elog should be run for the first well on every horizontal well pad.
 Please have mudloggers rigged up on location by 6889' TVD.

Recommended Gas Tests: 1800, 2050, 2600, Intm Csg. Pt., 3400, 4900, 5250, KOP, (Gas test at any mine void)
 Gas test during any trip or significant downtime while drilling the lateral section

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	110		FW @ 110,	125	140
Coal	27	29	Coal	Previously strip mined	237	242
Waynesburg	80	85	Coal	Previous contour mining in the Waynesburg, may encounter bench	265	269
Coal	189	191	Coal		797	815
Sewickley	394	400	Coal		915	930
Pittsburgh	462	470	Coal	Abandoned coal mine, some wells will encounter voids	1068	1120
Maxton	1281	1357	Sandstone	SW @ 1355,1435, .	1583	1586
Big Lime	1598	1678	Limestone		1625	1695
Big Injun	1680	1833	Sandstone		2635	2645
Weir	1911	1932	Sandstone	Storage is not of concern	2670	2677 Base of Red
Top Devonian	2219					
Gantz	2219	2249	Silty Sand			
Fifty foot	2269	2323	Silty Sand			
Thirty foot	2385	2429	Silty Sand			
Gordon	2469	2495	Silty Sand			
Forth Sand	2511	2542	Silty Sand			
Fifth Sand	2607	2625	Silty Sand			
Bayard	2734	2770	Silty Sand			
Int. csg pt	2820					
Speechley	3235	3336	Silty Sand			
Balltown A	3370	3555	Silty Sand			
Riley	3997	4074	Silty Sand			
Benson	4660	4780	Silty Sand	Base of Offset Well Perforations at 5086' TVD		
Alexander	5221	5256	Silty Sand			
Elks	5256	6849	Gray Shales and Silts			
Sonyea	6849	7036	Gray shale			
Middlesex	7036	7103	Shale			
Genesee	7103	7239	Gray shale interbedded			
Genesee	7239	7270	Black Shale			
Tully	7270	7329	Limestone			
Hamilton	7329	7400	Gray shale with some			
Marcellus	7400	7535	Black Shale			
Purell	7469	7472	Limestone			
-Lateral Zone	7496			Start Lateral at 7496'		
Cherry Valley	7506	7509	Limestone			
Onondaga	7535		Limestone			
Pilot Hole TD	7635					

Target Thickness	136 feet
Max Anticipated Rock Pressure	2593 PSI

Comments:
 Note that this is a TVD prog for a horizontal well (azimuth of 335 degrees; target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.
 Intermediate casing point is recommended beneath the Bayard to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.
 The estimated landing point TVD is 7496', rig geologist may adjust landing point. After the well is landed, drill to reported bed dips/ geologists' recommendation. The geologic structure is unknown at this time.

LATERAL DRILLING TOLERANCES

Mapview - Lateral: Deviate as little as possible to the left or right of the planned wellbore.
Mapview - TD: **DO NOT EXTEND** beyond recommended wellbore to avoid leasehline.

RECOMMENDED CASING POINTS

Fresh Water	CSG OD	18 5/8	CSG DEPTH	300	at minimum depth
Coal	CSG OD	13 3/8	CSG DEPTH	520	50' below Pittsburgh mine void
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH	2820	Beneath the Bayard formation
Production:	CSG OD	5 1/2	CSG DEPTH	@ TD	

06/02/2017

WW-9
(4/16)

API Number 47 - 061 - _____

Operator's Well No. 516192 _____

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) Stewart Run Quadrangle Rivesville

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? See Attached

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

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached List

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

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

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

Company Official Signature *Victoria J. Roark*

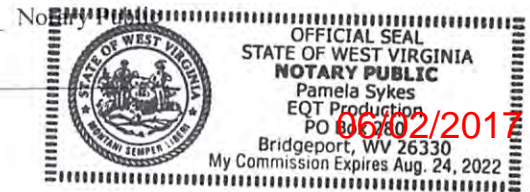
Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 12 day of Dec., 20 16

Pamela Sykes

My commission expires 8-24-22



Form WW-9

Operator's Well No. 516192

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed 25.6 Prevegetation pH 6.2

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

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

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Mary J Katarowski

Comments: Pending approvals from Army Corp. needed.

Title: Inspector

Date: 3/20/2017

Field Reviewed? Yes No

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, viscosifier, 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, viscosifier, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

EQT Production Water plan

Offsite disposals for Marcellus wells

4260 001-02

CWS TRUCKING INC.

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

BROAD STREET ENERGY LLC

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRIAD ENERGY

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

KING EXCAVATING CO.

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

Waste Management - Meadowfill Landfill

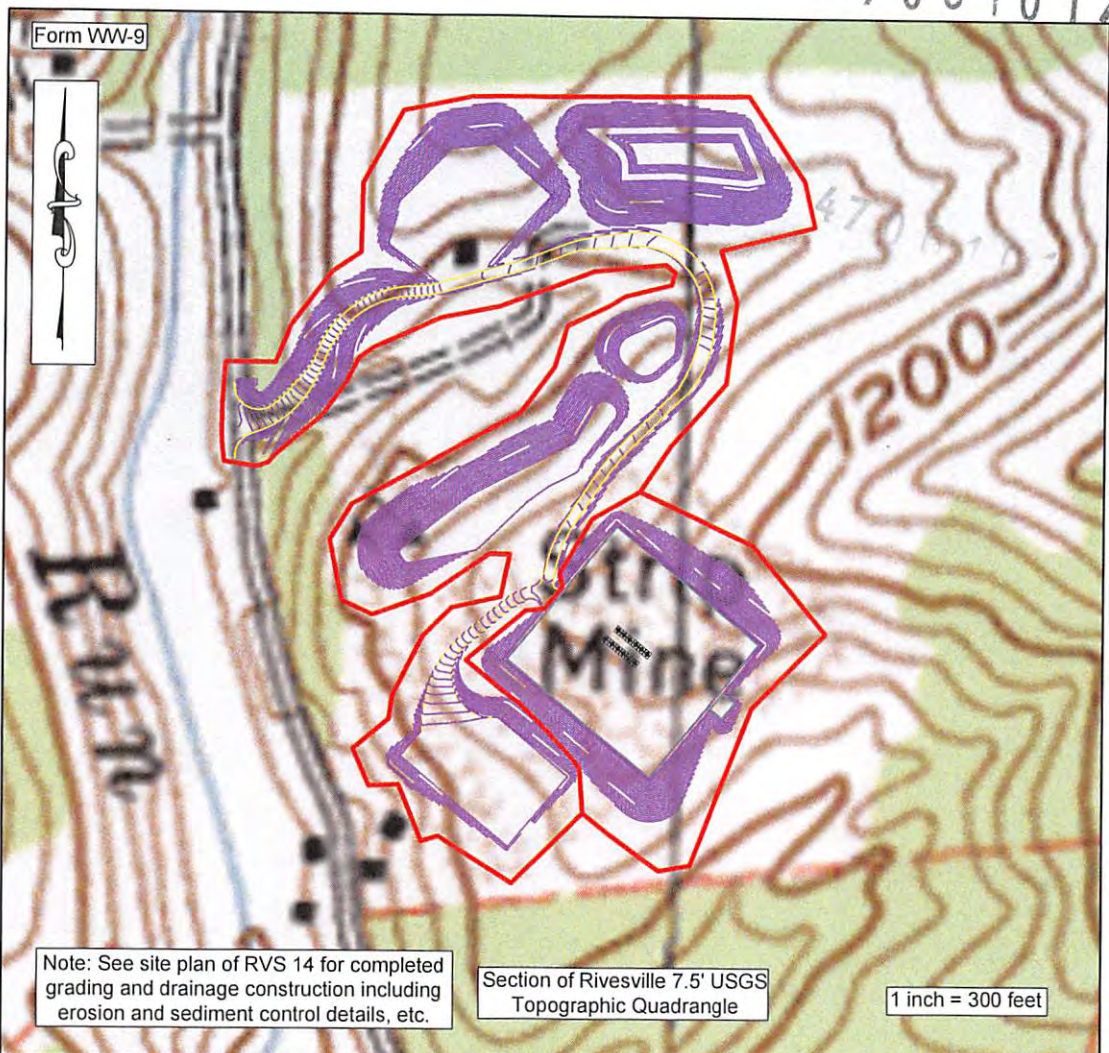
Rt. 2, Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98
Approval #100785WV

Waste Management - Northwestern Landfill

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

06/02/2017

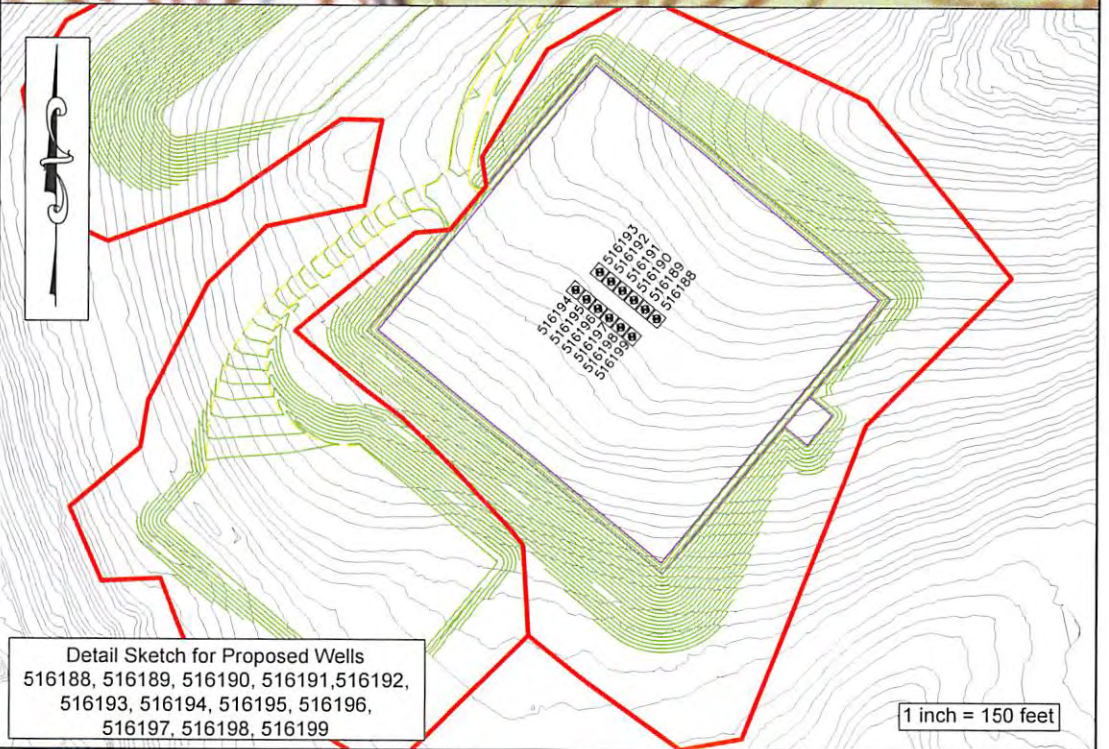
Form WW-9



Note: See site plan of RVS 14 for completed grading and drainage construction including erosion and sediment control details, etc.

Section of Rivesville 7.5' USGS Topographic Quadrangle

1 inch = 300 feet



Detail Sketch for Proposed Wells
516188, 516189, 516190, 516191, 516192,
516193, 516194, 516195, 516196,
516197, 516198, 516199

1 inch = 150 feet

LDSG Architects Engineers Surveyors
 2502 Cranberry Square
 Morgantown, WV 26508
 PHONE 304.777.2940
 TOLL FREE 877.323.6603
 FAX 570.323.9902
 www.larsondesigngroup.com

RVS 14 WELL PAD
 Well No. 516188, 516189, 516190, 516191, 516192,
 516193, 516194, 516195, 516196, 516197, 516198,
 516199
 Grant District, Monongalia County, WV

DATE:	3/28/2017
DESIGNER:	BLG
PROJECT NO.:	7936-004
SHEET:	1 of 1



Where energy meets innovation.™

Site Specific Safety Plan

EQT
RVS14 Unit Pad

Core
Monongalia County, WV

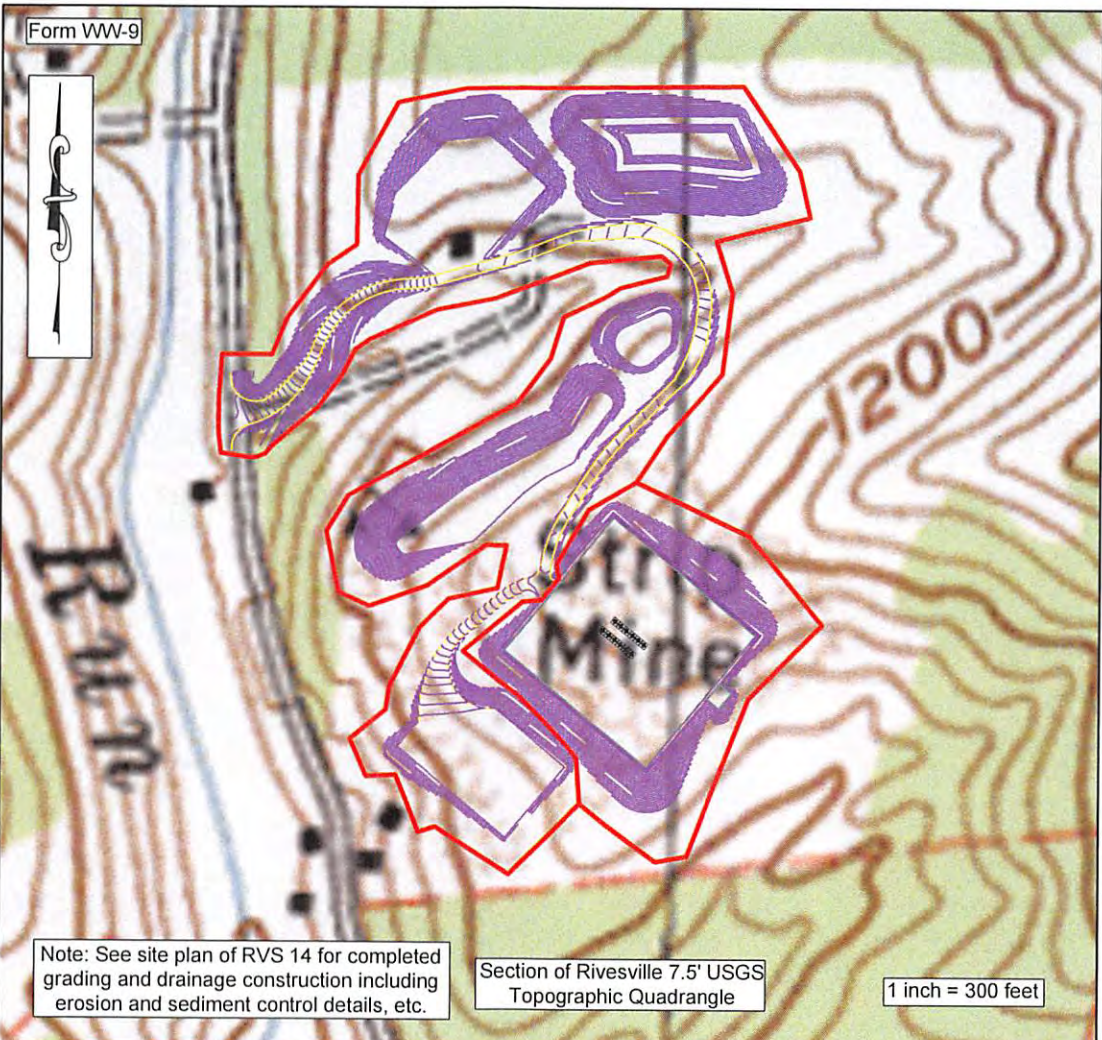
For Wells:

516192 _____

Date Prepared: October 13, 2016

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

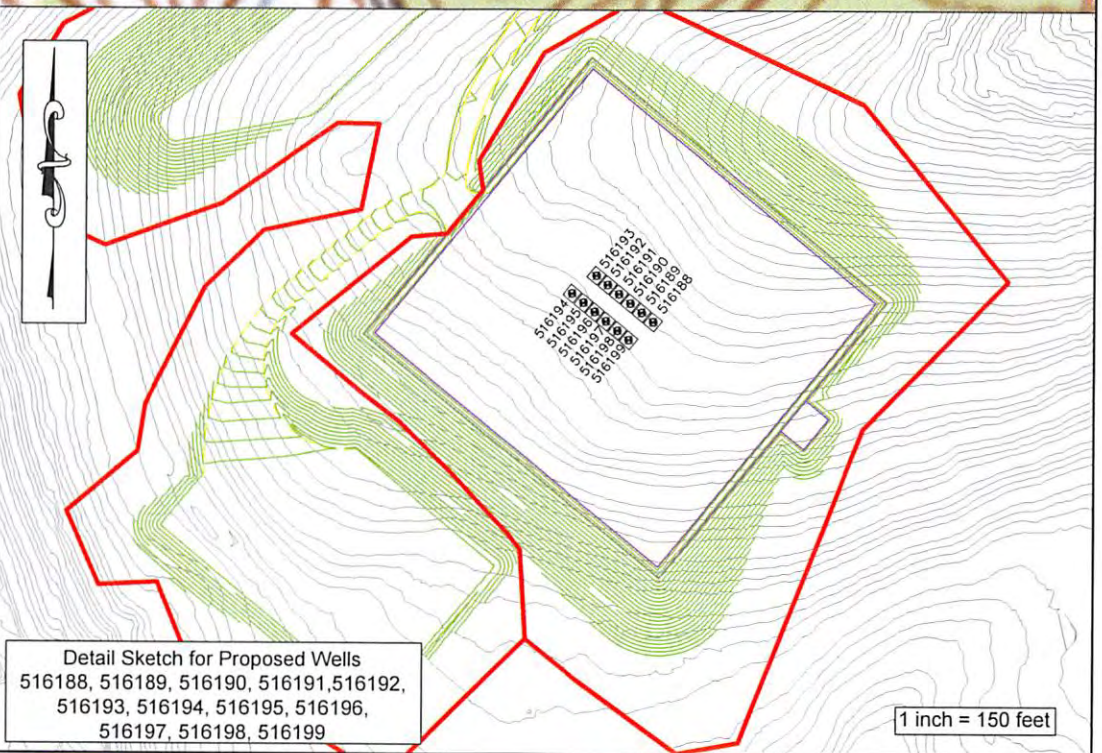
[Signature]
WV Oil and Gas Inspector
Inspector
Title
3/28/2017
Date



Note: See site plan of RVS 14 for completed grading and drainage construction including erosion and sediment control details, etc.

Section of Rivesville 7.5' USGS Topographic Quadrangle

1 inch = 300 feet



Detail Sketch for Proposed Wells
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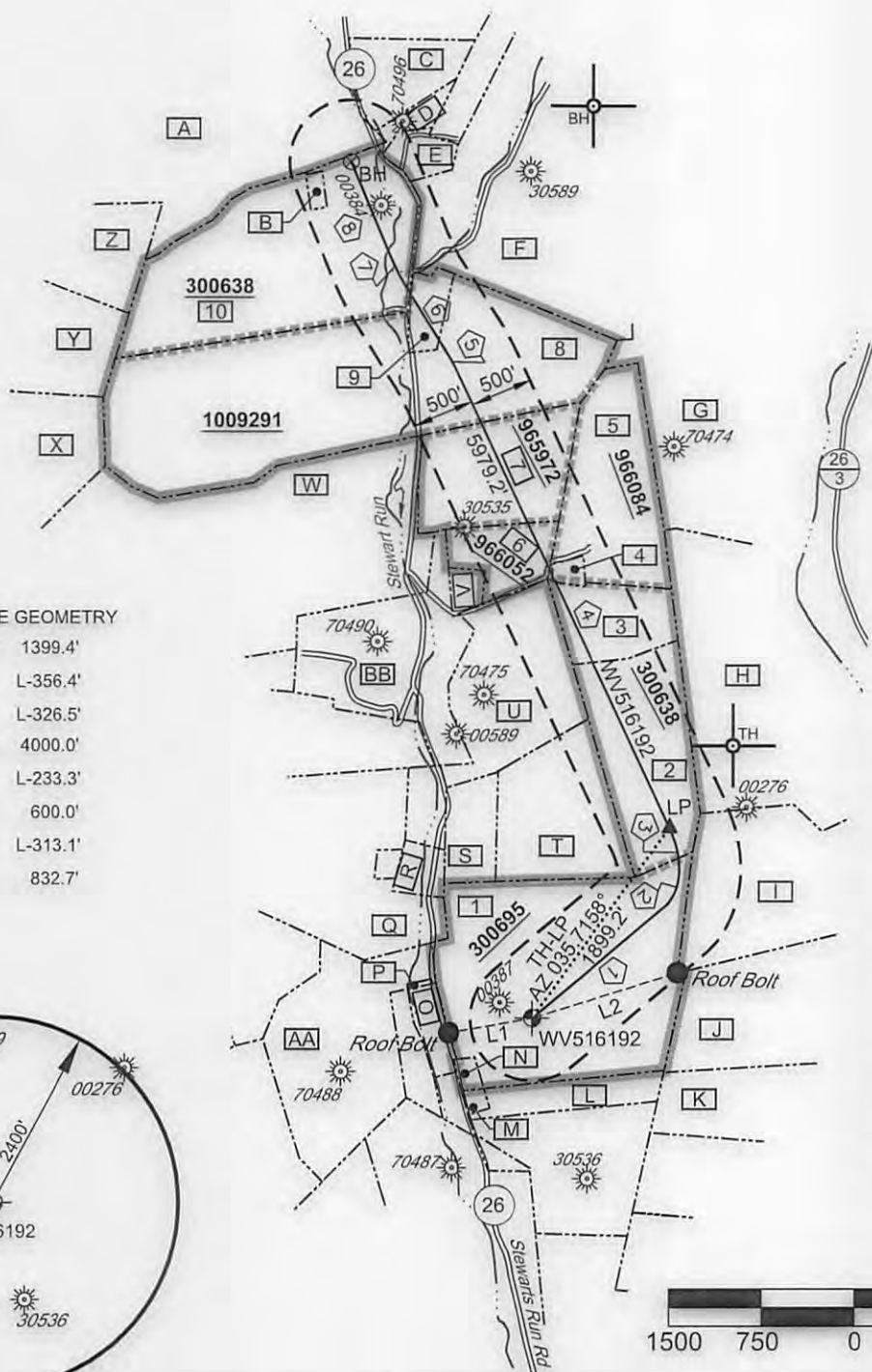
1 inch = 150 feet

Larson Design Group
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 2502 Cranberry Square
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RVS 14 WELL PAD
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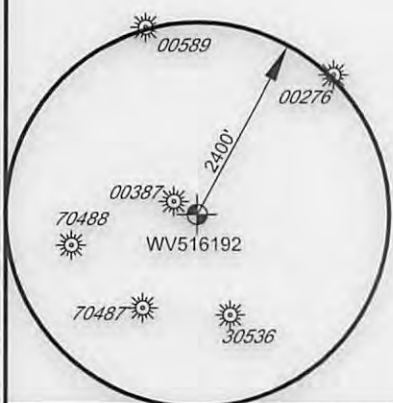
DATE:	3/28/2017
DESIGNER:	BLG
PROJECT NO.:	7936-004
SHEET:	1 of 1

PROPERTY TIES		
L1	S80°32'W	684.8'
L2	N72°37'E	1230.3'



HORIZONTAL BORE GEOMETRY

- ① AZ 049.9038° 1399.4'
- ② R-411' L-356.4'
- ③ R-1065' L-326.5'
- ④ AZ 335.0000° 4000.0'
- ⑤ R-2319' L-233.3'
- ⑥ AZ 328.0001° 600.0'
- ⑦ R-2090' L-313.1'
- ⑧ AZ 337.3941° 832.7'



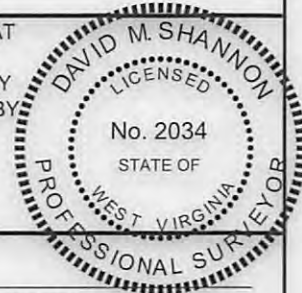
LEGEND	
	- OUTER LEASE BOUNDARY
	- LEASE BOUNDARY
	- SURFACE TRACT LINES
	- WELL REFERENCE LINES
	- COUNTY ROADS
	- PUBLIC ROADS
	- BLUE-LINE STREAMS
	- PROPOSED WELL
	- EXISTING WELL
	- LANDING POINT
	- BOTTOM HOLE
	- PROPERTY CROSSED BY BORE
	- ADJOINER PROPERTY
	- LEASE NUMBER
	- BORE GEOMETRY TAB



FILE NO. 7936-004
 DRAWN BY DMS
 SCALE 1 INCH = 1500 FEET
 MIN DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

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

David M. Shannon PS #2034



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



W.V.D.E.P.
 OFFICE OF OIL AND GAS
 601 57TH STREET
 CHARLESTON, WV 25304

DATE 12-7-2016
 OPERATORS WELL NO. WV516192
 API WELL NO. 47 061
 STATE COUNTY PERMIT 01762 HGA

WELL TYPE: OIL GAS LIQUID INJECTION
 IF "GAS", PRODUCTION STORAGE DEEP
 LOCATION: WATERSHED INDIAN CREEK (HUC12) STEWART RUN (LOCAL)
 COUNTY/DISTRICT MONONGALIA / GRANT
 SURFACE OWNER GORDON W. & SHEILA M. LAWSON
 OIL & GAS ROYALTY OWNER BETTY JO BINZ

WASTE DISPOSAL
 SHALLOW
 ELEVATION (EXIST) 1158.0 (PROP) 1157.0
 QUADRANGLE RIVESVILLE - SEC 1
 ACREAGE 72.02±
 ACREAGE 73.00± LEASE# 300695

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) _____

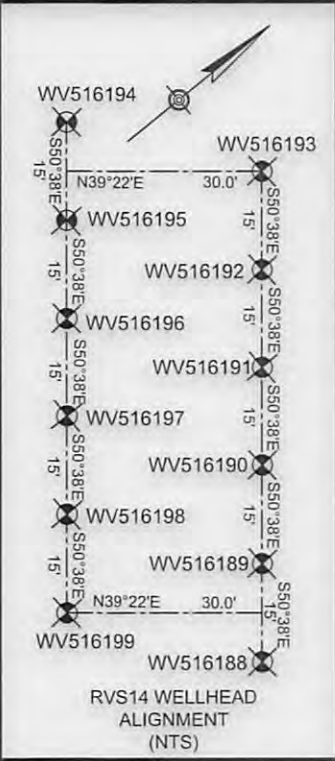
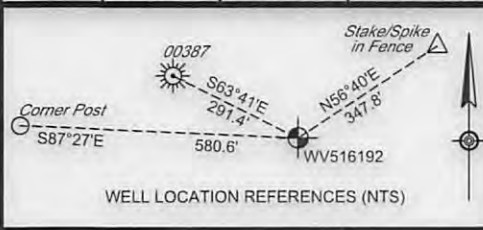
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH 7400
 WELL OPERATOR: EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 115 PROFESSIONAL PLACE, PO BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

06/02/2017

EQT PRODUCTION COMPANY
WELL # 516192
PAGE 2 OF 2

UTM NAD83 ZONE 17N (METERS)	TOPHOLE	N-4383330.32	E-576964.55
	LANDING PT	N-4383805.78	E-577294.52
	BOT HOLE	N-4385433.51	E-576480.10
NAD27 SPC FEET NORTH ZONE	TOPHOLE	N-399820.04	E-1829846.48
	LANDING PT	N-401362.06	E-1830955.18
	BOT HOLE	N-406747.75	E-1828371.92
NAD27 GEO LAT(N) LONG(W)	TOPHOLE	N039.596169	W080.103820
	LANDING PT	N039.600423	W080.099923
	BOT HOLE	N039.615161	W080.109220



TAB	OWNER	DISTRICT	TAX MAP	PARCEL #	AREA±
1	GORDON WAYNE AND SHEILA M. LAWSON	GRANT	7-17	57	72.02
2	TIMOTHY ZAHARKO	GRANT	7-17	59	28.54
3	TIMOTHY ZAHARKO	GRANT	7-10	24	40.67
4	GREG AND LOUANN RADICIC	GRANT	7-10	24.1	1.17
5	TIMOTHY ZAHARKO	GRANT	7-10	24	40.67
6	EARL L. AND CHRISTINE FISHER BREEDLOVE	GRANT	7-10	23.1	9.362
7	HAROLD D. FISHER	GRANT	7-10	23	23.884
8	JAMES M. GOREMAN	GRANT	7-10	19	95.175
9	JAMES M. GOREMAN	GRANT	7-10	18	4
10	TAMMY LYNN CAMPBELL AND ARLIE EDWARD CAMPBELL II	GRANT	7-10	17	55.5

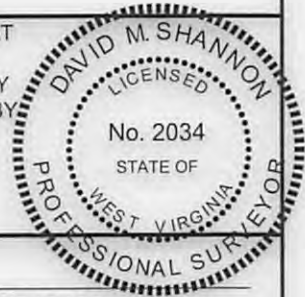
TAB	OWNER	DISTRICT	TAX MAP	PARCEL #	AREA±
A	VIRGIL L. WHETZEL, JR & LINDA WHETZEL	GRANT	7-10	14	62.43
B	CEMETERY	GRANT	7-10	17.01	120X330
C	TAMMY LYNN CAMPBELL AND ARLIE EDWARD CAMPBELL II	GRANT	7-10	12	37.67
D	VIRGIL L. WHETZEL, JR & LINDA WHETZEL	GRANT	7-10	15.3	2.454
E	JOSEPH M. PERROOTS AND JENNIFER L. FORGEN	GRANT	7-10	16.3	3.91
F	CURRENCE E. CLUTTER, ETAL	GRANT	7-10	31	146.18
G	ROBERT AND VIRGINIA RADCLIFF IRROVACABLE TRUST	GRANT	7-10	27	100.618
H	ROBERT AND VIRGINIA RADCLIFF IRROVACABLE TRUST	GRANT	7-10	25	89
I	GORDON WAYNE AND SHEILA M. LAWSON	GRANT	7-17	60	52.323
J	GORDON LAWSON, ETAL	GRANT	7-17	63	92.682
K	GORDON LAWSON, ETAL	GRANT	7-17	63	92.682
L	GORDON WAYNE AND SHEILA M. LAWSON	GRANT	7-17	54.2	8
M	LEONARD DALE AND RHONDA LYNN FOX	GRANT	7-17	54.1	0.76
N	LEONARD DALE AND RHONDA LYNN FOX	GRANT	7-17	56	UNLISTED
O	ALFRED GLOVER, JR	GRANT	7-17	37	3.765
P	MERIT DEVELOPMENT, INC	GRANT	7-17	36.1	.18
Q	JIMMY L. AND RENITA D. SHISLER	GRANT	7-17	35	68.3362
R	JAMES L. ROGERS AND HOWARD WAYNE CORELY, JR	GRANT	7-17	35.2	3.521
S	JAMES L. AND SHEILA M. LAWSON	GRANT	7-17	58.1	8
T	GORDON W. AND SHEILA M. LAWSON	GRANT	7-17	58	24.5
U	TIMOTHY ZAHARKO	GRANT	7-10	22	27.76
V	JOHN LANDON FISHER	GRANT	7-10	23.2	2.12
W	TIMOTHY P. ZAHARKO	GRANT	7-10	20	102.19
X	WILLIAM H. AND LOUISE LEISTER	GRANT	7-10	5	61.146
Y	WILLIAM ROY AND TAMMY LYNN RADCLIFF	GRANT	7-10	7	25
Z	TAMMY LYNN CAMPBELL AND ARLIE EDWARD CAMPBELL II	GRANT	7-10	8	26.4
AA	MERIT DEVELOPMENT, INC	GRANT	7-17	36	36.07
BB	WILLIAM CARTER AND REBECCA ROSE HARRIS	GRANT	7-10	21	85.64

LEASE#	MINERAL OWNERS	AREA
300695	BETTY JO BINZ	73±
300638	J.S. HARRIS HEIRS	55.5±
966084	DOROTHEA L. COKER	41.48±
966052	EARL L. BREEDLOVE, ETUX	9.362±
965972	HAROLD D. AND FRANCIS B. FISHER	24.018±
1009291	JAMES M. GOREMAN	98.18±
300638	J.S. HARRIS HEIRS	55.5±

FILE NO. 7936-004
 DRAWN BY DMS
 SCALE 1 INCH = 1500 FEET
 MIN DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

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David M. Shannon PS #2034



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

LDG

W.V.D.E.P. OFFICE OF OIL AND GAS 601 57TH STREET CHARLESTON, WV 25304

DATE 12-7-2016

OPERATORS WELL NO. WV516192

API WELL NO. 47 061

STATE 01762 COUNTY PERMIT

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ELEVATION (EXIST) 1158.0 (PROP) 1157.0

COUNTY/DISTRICT MONONGALIA / GRANT

QUADRANGLE RIVESVILLE - SEC 1

SURFACE OWNER GORDON W. & SHEILA M. LAWSON

ACREAGE 72.02± **06/02/2017**

OIL & GAS ROYALTY OWNER BETTY JO BINZ

ACREAGE 73.00± LEASE# 300695

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON

CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) _____

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH 7400

WELL OPERATOR: EQT PRODUCTION COMPANY

DESIGNATED AGENT REX C. RAY

ADDRESS 115 PROFESSIONAL PLACE, PO BOX 280 BRIDGEPORT, WV 26330

ADDRESS 115 PROFESSIONAL PLACE, PO 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:

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

See Attached

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

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

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

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

Well Operator: EQT Production Company

By: Victoria J Roark

Its: Permitting Supervisor

RECEIVED
Office of Oil and Gas
DEC 14 2016
WV Department of
Environmental Protection

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
300695	<u>Raymond P. Gaston (current royalty owner)</u>		**	
	A J Arnett, et ux (original lessor)	Fayette County Gas Company		LB84/290
	Fayette County Gas Company	Hope Natural Gas Company		DB117/241
	Hope Natural Gas Company	CNG Transmission Corp		DB1128/240
	CNG Transmission Corp	Eastern States Oil & Gas Inc		AB43/313
	Eastern States Oil & Gas Inc	Equitable Production - Eastern States Oil & Gas		CB13/14
	Equitable Production - Eastern States Oil & Gas	Equitable Production Company		CB13/14
	Equitable Production Company	EQT Production Company		CB13/14
300638	<u>Tammy Lynn Campbell, et al (current royalty owner)</u>		**	
	N E Michael, et ux (original lessor)	J S Harris		DB78/473
	J S Harris	Hope Natural Gas		DB81/243
	Hope Natural Gas	Consolidated Gas Supply Corp.		CB31/321
	Consolidated Gas Supply Corp.	Consolidated Gas Transmission Corp.		AB16/198
	Consolidated Gas Transmission Corp.	CNG Transmission Corp.		DB46/54
	CNG Transmission Corp.	Eastern States Oil & Gas Inc		DB1128/240
	Eastern States Oil & Gas Inc	Equitable Production - Eastern States Oil & Gas		CB13/14
	Equitable Production - Eastern States Oil & Gas	Equitable Production Company		CB13/14
	Equitable Production Company	EQT Production Company		CB13/14
966084	<u>Dorothea L. Coker (current royalty owner)</u>		**	
	Dorothea L. Coker	Cabot Oil and Gas Corp.		DB1353/479
	Cabot Oil and Gas Corp.	Hunt Marcellus. LLC		DB111/267
	Hunt Marcellus. LLC	EQT Production Company		DB121/689
966052	<u>Earl L. Breedlove, et ux (current royalty owner)</u>		**	
	Earl L. Breedlove, et ux (original lessor)	Hunt Marcellus, LLC		DB1450/59
	Hunt Marcellus, LLC	EQT Production Company		DB121/689
965972	<u>Harold D. Fisher, et ux (current royalty owner)</u>		**	
	Harold D. Fisher, et ux (original lessor)	Hunt Marcellus, LLC		DB1437/159
	Hunt Marcellus, LLC	EQT Production Company		DB121/689
1009291	<u>James M. Gorman (current royalty owner)</u>		**	
	James M. Gorman (original lessor)	EQT Production Company		DB1526/0744

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

RECEIVED
Office of Oil and Gas

DEC 14 2016

WV Department of
Environmental Protection

06/02/2017



470610111

December 1, 2016

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

Re: RVS14 well pad, well numbers 516192; 516293; 516294; 516295
Grant District, Monongalia County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

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

Vicki Roark
Permitting Supervisor-WV

RECEIVED
Office of Oil and Gas

DEC 14 2016

WV Department of
Environmental Protection

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

Date of Notice Certification: 12-13-16

API No. 47- 061 - _____
 Operator's Well No. 516192 _____
 Well Pad Name: RVS14 _____

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>WV</u>	UTM NAD 83	Easting: <u>576964.55</u>
County: <u>Monongalia</u>		Northing: <u>4383330.32</u>
District: <u>Grant</u>	Public Road Access: <u>US-19</u>	
Quadrangle: <u>Rivesville</u>	Generally used farm name: <u>Gordon W. and Sheila M. Lawson</u>	
Watershed: <u>Stewart Run</u>		

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

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

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

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 Office of Oil and Gas
 West Virginia Code § 22-6A
 WV Department of
 Environmental Protection

Certification of Notice is hereby given:

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

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



Subscribed and sworn before me this 12 day of Dec 2016.

[Signature] Notary Public

My Commission Expires 8-24-22

Oil and Gas Privacy Notice:

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

DEPARTMENT OF
Office of Oil and Gas
DEC 14 2016
WV Department of
Environmental Protection

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: 12-7-16 **Date Permit Application Filed:** 12-13-16

Notice of:

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

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

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

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

SURFACE OWNER(s)

Name: See Attached
Address: _____

Name: _____
Address: _____

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

Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: See Attached
Address: _____

COAL OWNER OR LESSEE

Name: See Attached
Address: _____

COAL OPERATOR

Name: _____
Address: _____

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

Name: See Attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

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*Please attach additional forms if necessary

WV Department of
Environmental Protection

Surface Owners:

Gordon W & Sheila M Lawson
37 Hidden Valley Rd
Morgantown WV 26507

97081013

Surface Owners (road or other disturbance):

Gordon W & Sheila M Lawson
37 Hidden Valley Rd
Morgantown WV 26507



Surface Owners (Pits or impoundments):

Gordon W & Sheila M Lawson
37 Hidden Valley Rd
Morgantown WV 26507

7016 2140 0000 5639 0705

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
<i>Domestic Mail Only</i>	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Po	\$
Sent To	
Street an.	
City, State	

BRIDGEPORT MD
3 2016
Postmark Here

Gordon W & Sheila M Lawson
37 Hidden Valley Rd
Morgantown WV 26507

RVS14 Permit Ap & Planned Op

PS

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

Coal Owner:

Consol Mining Company
1000 Consol Energy Dr.
Canonsburg PA 15317

4760000000

CNX Gas Company
1000 Consol Energy Dr.
Canonsburg PA 15317

Patriot Mining Co
2708 Cranberry Square
Morgantown WV 26508

Murray American Energy Inc WV
C/O Murray Energy Corp
1 Bridge St
Monongah WV 26554

Murray American Energy Inc OH
C/O Murray Energy Corporation
46226 National Rd
St Clairsville OH 43950

Owners of Water Wells

Leonard D & Rhonda Fox
362 Stewart Run Rd
Morgantown, WV 26501

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Office of Oil and Gas

DEC 14 2016

WV Department of
Environmental Protection

06/02/2017

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

06/02/2017

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

WV Department of
Environmental Protection

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WV Department of
Environmental Protection
06/02/2017

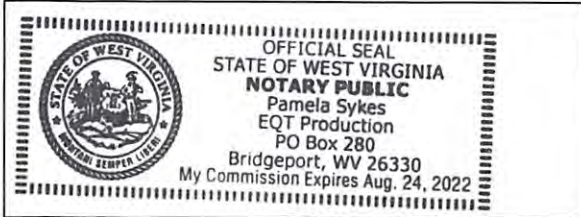
Notice is hereby given by:

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

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

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



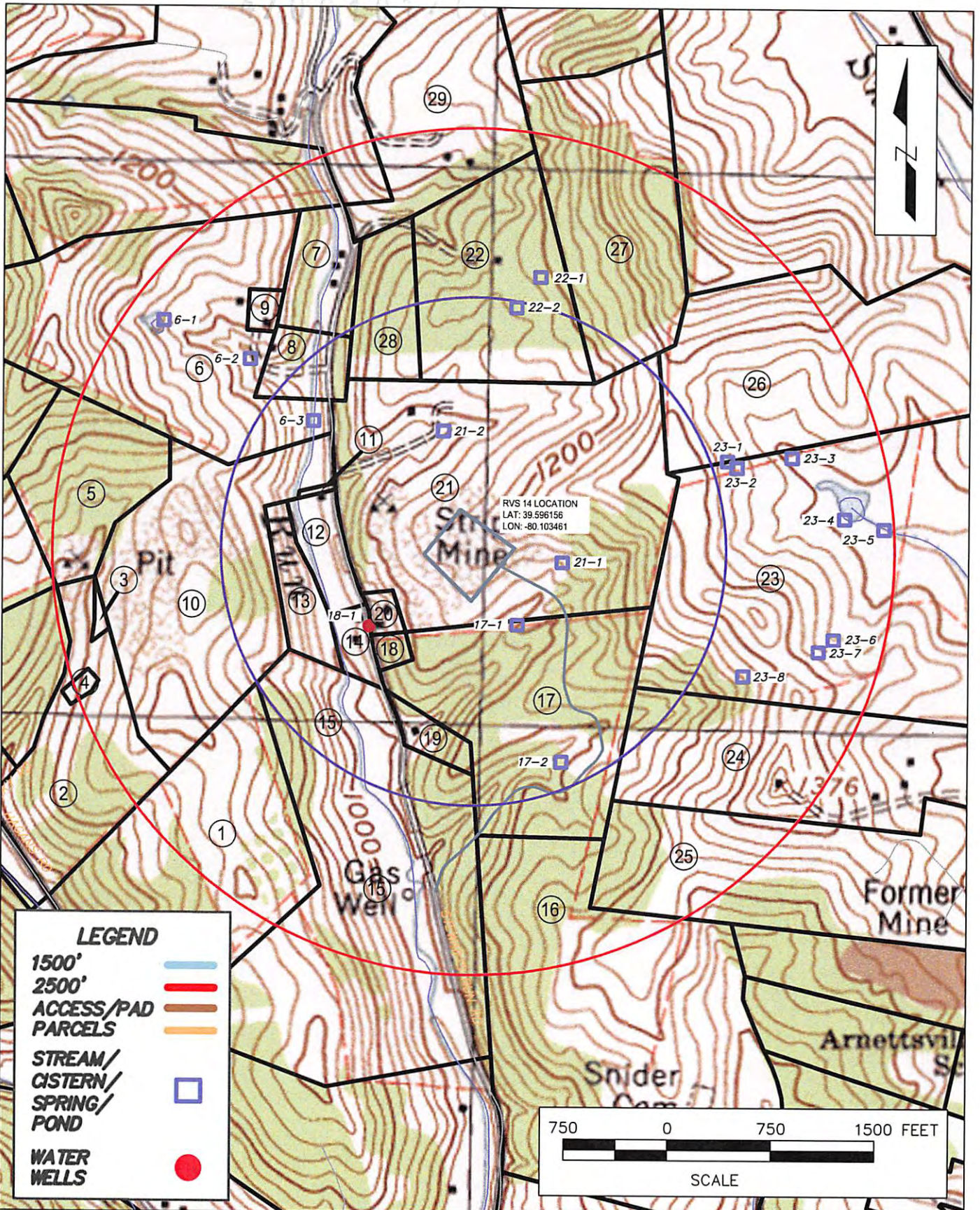
[Handwritten Signature]

Subscribed and sworn before me this 12 day of June, 2016.

[Handwritten Signature]

Notary Public

My Commission Expires 8-24-22



LDC
 Architects Engineers Surveyors
 2502 CRANBERRY SQUARE
 MORGANTOWN, WV 26508
 PHONE 304.777.2940
 TOLL FREE 877.323.6603
 FAX 570.323.9902
 www.larsondesigngroup.com

RVS 14 TOPO WATER PURVEYOR MAP
 GRANT DISTRICT, MONONGALIA COUNTY, WEST VIRGINIA
EQT CORPORATION
 115 Professional Place, Bridgeport, WV 26330

DATE: 5/20/15
 SHEET NO.: 1 of 1
 PROJECT NO.: 7936-004
 SCALE: 1"=750'

06/02/2017

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

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

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

Date of Notice: 10/24/2016 **Date Permit Application Filed:** 11/03/2016

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

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Gordon W. and Sheila M. Lawson
Address: 37 Hidden Valley Rd.
Morgantown WV 26507

Name: _____
Address: _____

Notice is hereby given:

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

State:	<u>WV</u>	UTM NAD 83	Eastings:	<u>576964.55</u>
County:	<u>Monongalia</u>		Northing:	<u>4383330.32</u>
District:	<u>Grant</u>	Public Road Access:	<u>US-19</u>	
Quadrangle:	<u>Rivesville</u>	Generally used farm name:	<u>Gordon W. and Sheila M. Lawson</u>	
Watershed:	<u>Stewart Run</u>			

This Notice Shall Include:

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

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin
Governor

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

June 22, 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 RVS 14 Pad Site, Monongalia County

516188 RVS14H1	516189 RVS14H2	516190 RVS14H3
516191 RVS14H4	516192 RVS14H5	516193 RVS14H6
516194 RVS14H7	516195 RVS14H8	516196 RVS14H9
516197 RVS14H10	516198 RVS14H11	516199 RVS14H12

5700-01782

Dear Mr. Martin,

This well site will be accessed from Permit #04-2016-0482 issued to EQT Production Company for access to the State Road. The well site is located off of Monongalia County Route 26 SLS.

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

Very Truly Yours,

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

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

RECEIVED
Office of Oil and Gas

DEC 14 2016

WV Department of
Environmental Protection

06/02/2017

Anticipated Frac Additives
Chemical Names and CAS numbers

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

4708-1718

RECEIVED
Office of Oil and Gas

DEC 14 2016

WV Department of
Environmental Protection
06/02/2017

PROJECT INFORMATION

PROJECT NAME: EQT RVS 14
 TAX PARCEL:
 GRANT DISTRICT, MONONGALIA COUNTY, WV
 DISTRICT 7 MAP 17 PARCEL 57
 SURFACE OWNER:
 GORDON WAYNE & SHEILA M. LAWSON
 PID 7-17-57
 TOTAL PROPERTY AREA: 72.02 ACRES
 TOTAL DISTURBED AREA: 25.60 ACRES



OPERATOR

EQT PRODUCTION COMPANY
 OPERATOR ID: 306686
 P.O. BOX 280
 BRIDGEPORT, WV 26630
 PHONE: (304) 348-3870

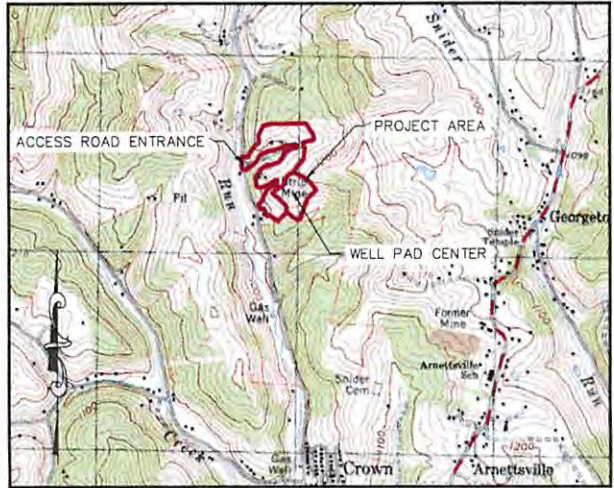
ENGINEER

LARSON DESIGN GROUP
 2502 CRANBERRY SQUARE
 MORGANTOWN, WV 26508
 PHONE: (304) 777-2940



EQT RVS 14 SITE PLAN

EQT PRODUCTION COMPANY



SCALE: 1" = 2000'
 RIVESVILLE QUADRANGLE
 WEST VIRGINIA

PROPOSED WELL NAME	WV NORTH NAD 83	NAD 83 LAT & LONG
516188	N 399819.30 E 1798455.57	LAT 39.596147 LON -80.103449
516189	N 399820.81 E 1798443.97	LAT 39.595173 LON -80.103490
516190	N 399836.37 E 1798432.37	LAT 39.596199 LON -80.103532
516191	N 399847.83 E 1798420.77	LAT 39.596225 LON -80.103573
516192	N 399857.35 E 1798429.15	LAT 39.596251 LON -80.103614
516193	N 399856.86 E 1798397.59	LAT 39.596277 LON -80.103656
516194	N 399848.41 E 1798372.75	LAT 39.596226 LON -80.103743
516195	N 399835.90 E 1798354.35	LAT 39.596200 LON -80.103702
516196	N 399829.39 E 1798395.96	LAT 39.596174 LON -80.103681
516197	N 399819.86 E 1798427.53	LAT 39.596146 LON -80.103619
516198	N 399810.36 E 1798419.13	LAT 39.596122 LON -80.103578
516199	N 399800.85 E 1798430.74	LAT 39.596096 LON -80.103536
WELL PAD ELEVATION	1157.00	

LOCATION COORDINATES

ACCESS ROAD ENTRANCE
 LATITUDE: 39.597378 LONGITUDE: -80.106480 (NAD 83)
 N 400273.37 E 1797604.29 (WV NORTH NAD 83)

CENTER OF WELL PAD
 LATITUDE: 39.596157 LONGITUDE: -80.103550 (NAD 83)
 N 399823.17 E 1798427.16 (WV NORTH NAD 83)

CENTER OF FRESH WATER AST PAD
 LATITUDE: 39.598605 LONGITUDE: -80.104818 (NAD 83)
 N 400717.10 E 1798075.64 (WV NORTH NAD 83)

CENTER OF IMPAIRED WATER AST PAD
 LATITUDE: 39.595470 LONGITUDE: -80.104599 (NAD 83)
 N 399574.92 E 1798129.79 (WV NORTH NAD 83)

SITE DISTURBANCE COMPUTATIONS

WELL PAD LIMIT OF DISTURBANCE = 6.75 AC
 FRESH WATER AST PAD LIMIT OF DISTURBANCE = 2.84 AC
 IMPAIRED WATER AST PAD LIMIT OF DISTURBANCE = 2.35 AC
 WELL PAD ACCESS ROAD LIMIT OF DISTURBANCE = 12.59 AC
 AST PAD ACCESS ROAD LIMIT OF DISTURBANCE = 1.07 AC
 TOTAL SITE DISTURBANCE = 25.60 AC

ENTRANCE PERMIT

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

ENVIRONMENTAL NOTES

WETLAND DELINEATIONS WERE PERFORMED BETWEEN APRIL 26 AND MAY 2, 2016 BY LARSON DESIGN GROUP TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE MAY 5, 2016 EQT RVS 14 JURISDICTIONAL STREAMS & WETLANDS MAPS WERE PREPARED BY LARSON DESIGN GROUP AND SUMMARIZE THE RESULTS OF THE FIELD DELINEATION. THE MAPS DO NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS

GEOTECHNICAL NOTE

A GEOTECHNICAL INVESTIGATION HAS NOT BEEN COMPLETED FOR THIS SITE DESIGN. CONSEQUENTLY, THE DESIGN OF THE SITE IMPROVEMENTS DEPICTED ON THESE DRAWINGS WAS PREPARED BY LDG WITHOUT DETAILED GEOTECHNICAL INFORMATION AND LDG DOES NOT GUARANTEE THE EFFICACY OF THE DESIGN.

ALTHOUGH A DETAILED GEOTECHNICAL INVESTIGATION WAS COMPLETED BY LARSON DESIGN GROUP ON JUNE 18 AND 19, 2015 AND A REPORT WAS PREPARED ON JULY 22, 2015. CHANGES TO THE SITE DESIGN NECESSITATE THE COMPLETION OF ADDITIONAL GEOTECHNICAL BORINGS AND PREPARATION OF A REVISED GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION. THE OWNER ASSUMES ALL RISK IN THE USE OF THESE DRAWINGS TO CONSTRUCTION IMPROVEMENTS ON THIS SITE.

SOURCE OF MAPPING DATA

THE CONTOURS DEPICTED IN THE PLANS WERE COMPILED TO NATIONAL MAP ACCURACY STANDARDS BY KUCERA INTERNATIONAL INC., WILLOUGHBY, OHIO, USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY TAKEN ON APRIL 7, 2014. CONTOURS WHICH ARE IN WOODED OR DENSE VEGETATION ARE APPROXIMATIONS ONLY. THE PROPERTY BOUNDARIES SHOWN IN THE PLANS WERE LOCATED BY LARSON DESIGN GROUP.

GENERAL DESCRIPTION

THE ACCESS ROAD(S), WELL PAD, AND AST PADS ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL SHALE GAS WELLS.

MISS UTILITY STATEMENT

EQT WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #161044612. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.



NO.	DATE	ISSUE / REVISIONS
1	1/17/2017	WDEP COMMENT RESPONSE
2	1/23/2017	FINAL SITE DESIGN
3	5/26/2016	FINAL SITE DESIGN
4	1/27/2016	EQT COMMENTS
5	1/27/2016	EQT COMMENTS
6	1/27/2016	EQT COMMENTS
7	1/27/2016	EQT COMMENTS
8	1/27/2016	EQT COMMENTS
9	1/27/2016	EQT COMMENTS
10	1/27/2016	EQT COMMENTS
11	1/27/2016	EQT COMMENTS
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49	1/27/2016	EQT COMMENTS
50	1/27/2016	EQT COMMENTS

COVER SHEET
EQT RVS 14 WELL SITE
 GRANT DISTRICT, MONONGALIA COUNTY, WEST VIRGINIA
 Larson Design Group - Architects Engineers Surveyors
 2502 Cranberry Square
 Morgantown, WV 26508
 PHONE 304.777.2940 TOLL FREE 877.323.6603
 FAX 570.323.9902 • www.larsondesigngroup.com

EQT Corporation
 115 PROGRESS WAY, PL
 BRIDGEPORT, WV 26630
 PHONE 304.845.0000

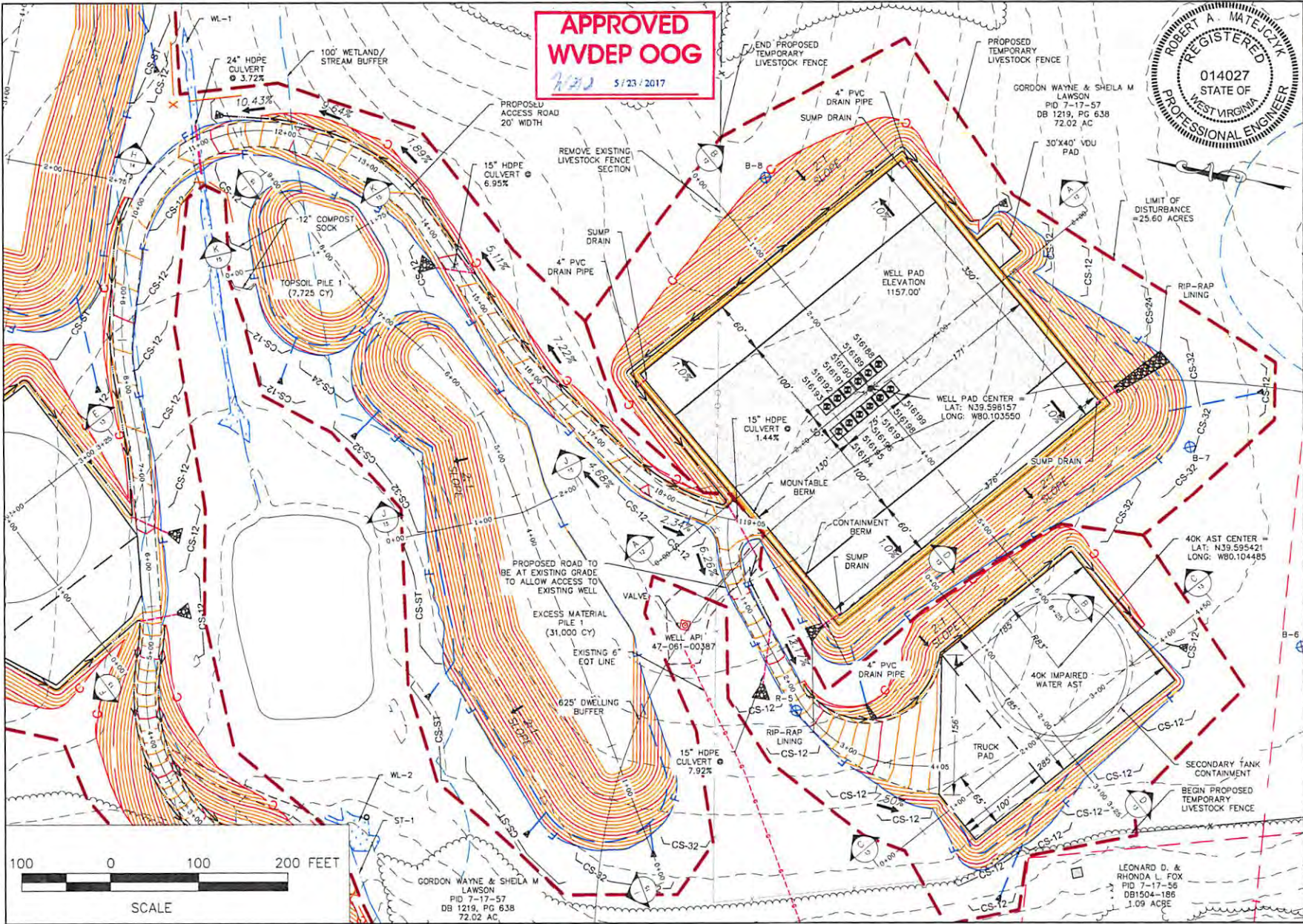
SHEET INDEX

1	COVER SHEET
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4	OVERALL PLAN SHEET INDEX
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7	ACCESS ROAD PROFILES
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11	IMPAIRED WATER AST PAD ACCESS ROAD CROSS SECTIONS
12	WELL PAD CROSS SECTIONS
13	IMPAIRED & FRESH WATER AST PADS CROSS SECTIONS
14	EXCESS MATERIAL PILE 2 CROSS SECTIONS
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18-28	CONSTRUCTION DETAILS
29	CONSTRUCTION QUANTITIES

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

RESTRICTIONS NOTES

1. THERE ARE NO PERENNIAL STREAMS, WETLANDS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD LOD.
2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
4. THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED.
5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.



APPROVED WVDEP OOG
 5/23/2017

ROBERT A. MATEJCZAK
 014027
 STATE OF WEST VIRGINIA
 REGISTERED PROFESSIONAL ENGINEER

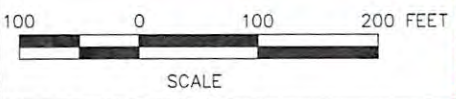


NO.	DATE	COMMENTS	ISSUE / REVISIONS
1	1/9/2017	WVDEP COMMENT RESPONSE	
2	1/27/2017	FINAL SITE DESIGN	
3	1/31/2017	FINAL OOG COMMENTS	
4	1/31/2017	FINAL OOG COMMENTS	
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SITE LAYOUT
EOT RVS 14 WELL SITE
 GRANT DISTRICT, MONONGALIA COUNTY, WEST VIRGINIA
 Larson Design Group - Architects Engineers Surveyors
 2502 Cranberry Square
 Morgantown, WV 26508
 PHONE 304.777.2940. TOLL FREE 877.323.6603
 FAX 570.523.9902 • www.larsondesigngroup.com

EOT Corporation
 115 PROFESSIONAL PL
 BRIDGEPORT, WV 26330
 PHONE 304.848.0000

SHEET NO: **6 OF 29**
 PROJECT NO: 7936-004



GORDON WAYNE & SHEILA M
 LAWSON
 PID 7-17-57
 DB 1219, PG 638
 72.02 AC

LEONARD D. &
 RHONDA L. FOX
 PID 7-17-56
 DB1504-185
 .109 ACBE