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**west virginia** department of environmental protection

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

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

August 25, 2015

**WELL WORK PERMIT**  
**Horizontal 6A Well**

This permit, API Well Number: 47-4902386, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto.

Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: 515712  
Farm Name: SHAVER, KARL S. JR.  
**API Well Number: 47-4902386**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 08/25/2015

**Promoting a healthy environment.**

# PERMIT CONDITIONS

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

## CONDITIONS

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE) and WV DEP Department of Water and Waste Management (DWWM). No activity authorized under this permit shall be commenced until all necessary permits from USACE and DWWM are obtained.
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 fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.



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west virginia department of environmental protection

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

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

**ORDER  
ISSUED UNDER  
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: EQT Production Company  
625 Liberty Ave.  
Pittsburgh, PA 15222

DATE: August 25, 2015  
ORDER NO.: 2015-W-8

**INTRODUCTION**

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to EQT Production Company (hereinafter "EQT" or "Operator"), collectively the "Parties."

**FINDINGS OF THE CHIEF**

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. EQT is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 625 Liberty Avenue Pittsburgh, Pennsylvania.
3. On March 11, 2015, EQT submitted well work permit applications identified as API#s 47-049-02385, 47-049-02386, and 47-049-02387; on March 12, 2015, EQT submitted a well work permit application identified as 47-049-02388 and on April 24, 2015 EQT submitted a well work permit application identified as 47-049-02394. The five proposed wells are to be located on the FAW 55 Pad in Grant District of Marion County, West Virginia.
4. On March 27, 2015, EQT requested a waiver for Wetlands B, C, D and F as outlined in Attachment F, from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as 47-049-02385, 47-049-02386, 47-049-02387, 47-049-02389 and 47-049-02394.

## CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to... (3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “[n]o 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 Office of Oil and Gas 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 Office of Oil and Gas 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.”

## ORDER

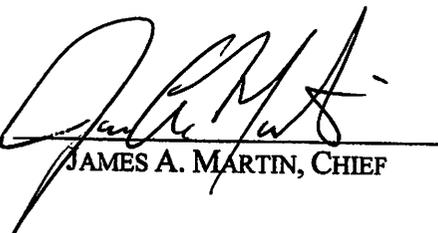
West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands C, D, and F from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as API#s 47-049-02385, 47-049-02386, 47-049-02387, 47-049-02388, and 47-049-02394. Further, a waiver from Wetland B is not needed for construction as proposed. The Office of Oil and Gas hereby **ORDERS** that EQT shall meet the following site construction and operational requirements for the FAW 55 well pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least two feet (2’) in height;
- b. Filter/silt socks and erosion control blankets shall be installed on all slopes and down gradient locations of the pad and topsoil pile areas as erosion and sediment controlling BMPs;
- c. Wetland C shall have a double 32” compost filter sock stack installed adjacent to the wetland and ditch checks shall be installed to minimize sediment flow through pipe inlet;
- d. Wetland D shall have ditch checks installed to minimize sediment from the diversion ditch and compost sock sediment traps installed adjacent to the wetland;
- e. Wetland F shall have a double 32” compost filter stock installed adjacent to the wetland;
- f. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- g. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- h. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- i. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- j. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- k. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- l. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- m. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 25th day of August, 2015.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:   
JAMES A. MARTIN, CHIEF

**WETLAND WAIVER REQUEST**  
**FAW 55 WELL PAD PROJECT**  
**MARION COUNTY, WEST VIRGINIA**

**Submitted to:**

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**OFFICE OF OIL AND GAS**  
**601 57<sup>TH</sup> STREET**  
**CHARLESTON, WEST VIRGINIA 25305**

**Prepared for:**

**EQT PRODUCTION COMPANY**  
**120 PROFESSIONAL PLACE**  
**BRIDGEPORT, WEST VIRGINIA 26330**

**Prepared by:**

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.**  
**99 CAMBRIDGE PLACE**  
**BRIDGEPORT, WEST VIRGINIA 26330**

**CEC Project 142-405**

**March 24, 2015**





March 24, 2015

Mr. James Martin, Chief  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57<sup>th</sup> Street  
Charleston, West Virginia 25304

Dear Mr. Martin:

Subject: Wetland Waiver Request  
EQT Production Company  
FAW 55 Well Pad Project  
Marion County, West Virginia  
CEC Project 142-405

## 1.0 INTRODUCTION

On behalf of EQT Production Company (EQT), Civil & Environmental Consultants, Inc., (CEC) is submitting a Wetland Waiver Request pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code. EQT is requesting a waiver for four wetlands which lie within 100-feet from the limits of disturbance (LOD) of the proposed FAW55 Well Pad Project located in Marion County, West Virginia.

EQT is proposing to construct a natural gas well pad with attendant facilities and associated access roads. The total LOD for the FAW 55 Well Pad Project is 22.38 acres and will support up to 10 horizontal wells. The waiver request form is included as Attachment A and the below sections provide a detailed description as required by the waiver.

## 2.0 WETLAND WAIVER REQUEST

*Question 1: Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.*

The proposed FAW 55 Well Pad Project is located in southern Marion County, West Virginia near the town of Monongah, as shown on the Site Location Map included as Attachment B. The proposed project's LOD is within 100-feet of four palustrine emergent wetlands. Wetland C is partially located within the LOD, along the access road, but is not proposed for temporary or permanent impacts. Wetland D is located approximately 9 feet to the east and Wetland F is located approximately 57 feet to the east of the proposed access road. Wetland B is located approximately 99 feet south of the proposed pits. No perennial streams are located within 100-feet of the proposed LOD and no surface or ground water intakes of a public water supply are located within 1,000-feet. The Water Topo Map is provided as Attachment C.

*Question 2: Justify the proposed activity by describing alternatives to this project that were considered*

*a. Include a No-Action Alternative as to show "the future without the project".*

The No-Action alternative does not represent "no alteration" of the existing environment, as future development could likely occur. However, under this alternative, the FAW55 Well Pad Project would not be constructed and would produce no immediate environmental impacts and, consequently would not require a waiver; however, this option would not fulfill the project's purpose and need.

*b. Location alternatives must be shown.*

The proposed FAW 55 Well Pad went through various conceptual designs prior to the proposed design. The PP03 Conceptual Design, Attachment D, represented EQT's initial design and most efficient facility

layout prior to obtaining detailed information regarding the location and types of on-site aquatic resources. CEC biologists subsequently performed detailed wetland and stream delineations, and characterized all potentially jurisdictional areas on the site. The resulting aquatic resource data was then incorporated into the design of the facility to arrive at the proposed design. The stream and wetland delineation map is included as Attachment E.

As shown on the conceptual drawings, Wetlands C and D were initially proposed for temporary impacts, which would obviate the need for the wetland waiver; however, in an effort to further minimize impacts to on-site aquatic features the LOD was adjusted to avoid these impacts. The proposed design represents EQT's commitment to reducing aquatic impacts to the furthest extent practicable while still meeting the projects purpose and need. The proposed Site Plans are included as Attachment F.

*c. Must demonstrate why a one hundred foot buffer cannot be maintained.*

Maintaining a 100-foot buffer from all on-site wetlands was not feasible due to topographic restraints and location of the existing features. To maintain a 100-foot buffer for Wetlands B and C the project would needed to be shifted north. Shifting the site north would result in excess cut material which would need to be spoiled, potentially in wetland areas. The only other alternative to meet the setback requirements would be a reduction in the project's footprint.

The proposed design represents the minimum footprint required to meet the projects purpose and need. The flowback and completion pits have minimum set volumes, 1.25 million gallons and 5 million gallons respectively, which are based on the minimum requirements needed for fracing. A reduction in the flowback or completion pit size would not allow for project completion. The footprint of the pad is based on the minimum square foot required for equipment needed vital to the operation of the facility.

*d. Describe how the proposed project is the least environmentally damaging practicable alternative.*

The proposed FAW 55 design represents the alternative which reduces both temporary and permanent impacts to the greatest degree. The conceptual design would have reduced the need to obtain wetland waivers but instead would have resulted in direct temporary impacts to on-site features whereas the proposed design will avoid these impacts.

*Question 3: Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.*

As part of their permitting process, EQT has prepared an Erosion and Sedimentation Control Plan (E&SCP) specific for this project which stipulates specific seed mix for post-construction soil stabilization. The E&SCP will be implemented to reduce soil erosion, compaction, and sedimentation of receiving streams and wetlands. Proper construction sequencing and implementation of the E&SCP will ensure water quality impacts are minimized throughout the project area. Furthermore, the pits will be lined with an impermeable barrier to prevent possible contamination of soil and groundwater. EQT will also ensure that any contaminants will be strictly controlled. Furthermore, appropriate stormwater management features and culverts will be installed along the access roads to prevent the damming and funneling of water that might otherwise reach wetland areas.

Mr. James Martin  
Project 142-405  
Page 3  
March 24, 2015

*Question 4: Proved mapping, plans, specifications and design analysis for the preferred alternative to the project.*

- a. *Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect wetlands and/or perennial streams for which the waiver is sought.*

West Virginia Department of Environmental Protection approved erosion and sediment controls will be maintained continuously throughout the project. Orange construction fencing will be installed around Wetland C and 32-inch silt sock will be installed upslope of the wetland to prevent secondary impacts from sedimentation. A filter sock sediment trap will be installed upslope of Wetland D, while 32-inch filter sock will be installed upslope of Wetlands B and F to also avoid sedimentation.

The following attachments are included with this waiver request:

- Attachment A: Waiver Request Form
- Attachment B: Site Location Map
- Attachment C: Water Topo Map
- Attachment D: Conceptual Site Plans
- Attachment E: Wetland and Stream Delineation Map
- Attachment F: Proposed Final Site Plans

### 3.0 CLOSING

A Nationwide Permit-14 and Stream Activity Application have been submitted to the U.S. Army Corps of Engineers and the West Virginia Division of Natural Resources' (WVDNR) Office of Land and Streams, respectively.

We appreciate your review of this Wetland Waiver Request. Please contact Lacoa Corder at (304) 848-0066, or at [lcorder@eqt.com](mailto:lcorder@eqt.com), if you have any questions or require additional information.

Respectfully submitted,

CIVIL AND ENVIRONMENTAL CONSULTANTS, INC



Jacquelyn Kester  
Project Manager



Joseph D. Robinson, P.E.  
Project Manager

Enclosures

cc: Ms. Lacoa Corder, EQT Production Company

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**ATTACHMENT A**

**WETLAND WAIVER REQUEST**

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11/3/14

Wetland and Perennial Stream Waiver Request

API Number: Not yet assigned

Operator's Well Number: 306686

Well Operator: EQT Production Company

Well Number: 515709, 515710, 515711, 515712, 515713, 515714, 515715, 515716, 515717, 515718

Well Pad Name: FAW 55 Well Pad

County, District, Quadrangle of Well Location: Marion County, Grant District, Fairmont West Quad

**Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.**

**This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:**

**§22-6A-12(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.**

**§22-6A-12(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.**

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: Not yet assigned

Operator's Well Number: 306686

**Answer in the space provided, or use additional pages as necessary to fully answer the questions below:**

- 1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.**

Please refer to Section 2.0, Question 1 of the letter.

- 2. Justify the proposed activity by describing alternatives to this project that were considered.**

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

Please refer to Section 2.0, Question 2 of the letter.

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: Not yet assigned

Operator's Well Number: 306686

- 3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.**

Please refer to Section 2.0, Question 3 of the letter.

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.**
  - a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.**

Please refer to Section 2.0, Question 4 of the letter.

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**ATTACHMENT B**  
**SITE LOCATION MAP**

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**LEGEND**

**PROPOSED LOD**

**REFERENCE**

USGS TOPOGRAPHIC MAP/ARCGIS MAP SERVICE:  
 HTTP://GOTO.ARCGISONLINE.COM/MAPS/  
 USA\_TOPO\_MAPS, ACCESSED 12/15/2014  
 FAIRMONT WEST, WEST VIRGINIA QUAD

**COORDINATE SYSTEM:**

NAD 83 STATEPLANE WEST VIRGINIA NORTH US FEET



**Civil & Environmental Consultants, Inc.**

99 Cambridge Place - Bridgeport, WV 26330-2820  
 Ph: 304-933-3119 · Toll: 855-488-9539 · Fax: 304-933-3327  
 www.cecinc.com

DRAWN BY: GSK CHECKED BY: JDK

DATE: 12/15/2014 SCALE: 1" = 2,000'

JDK

APPROVED BY: <sup>\*hand signature</sup> TJN\*

PROJECT NO: 142-405.0065

FIGURE NO: 1

**EQT PRODUCTION COMPANY  
 FAW 55 WELL PAD  
 MARION COUNTY, WEST VIRGINIA**

**USGS SITE LOCATION MAP**

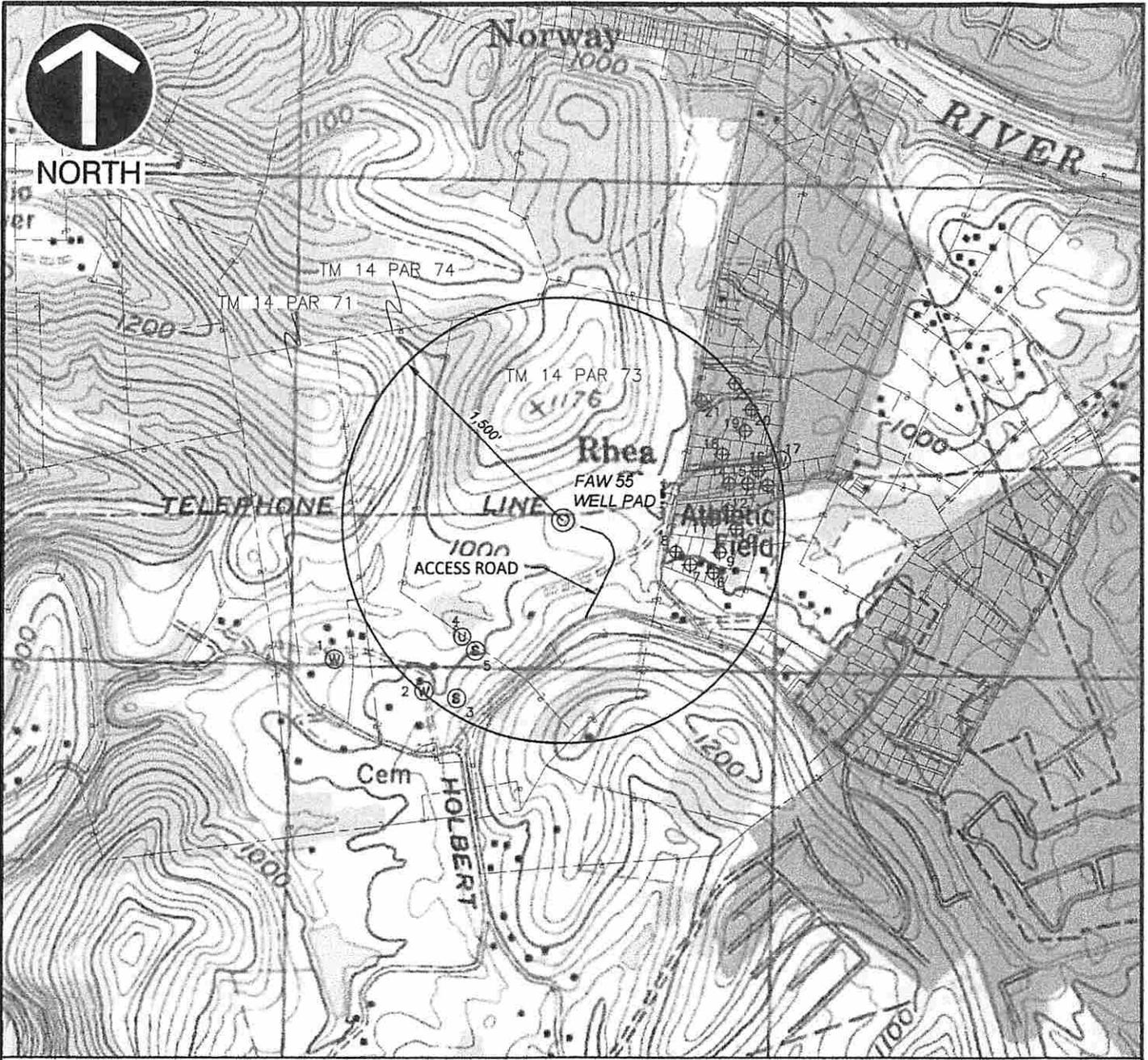
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**ATTACHMENT C**

**WATER TOPO MAP**

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# KARL S. SHAVER JR. LEASE

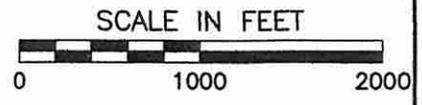


P:\2014\142-405-Survey\Draw Well Plats\142405-WELL\_PLAT-FAW55-H1-WATER\_TOPO.dwg\H1 WATER TOPO] LS:(2/23/2015 - hmalitch) - LP: 2/25/2015 4:59 PM

WELL PAD		1500' BUFFER		WATER WELL		CISTERN	
ACCESS ROAD TO WELL		PARCEL BOUNDARY		SPRING		NO ONE HOME	

## REFERENCE

1. U.S.G.S. 7.5' TOPOGRAPHIC MAP, FAIRMONT WEST QUADRANGLE, WV, DATED: 1997



**Civil & Environmental Consultants, Inc.**  
 99 Cambridge Place - Bridgeport, WV 26330  
 Ph: 304.933.3119 · Fax: 304.933.3327  
 www.cecinc.com

EQT PRODUCTION COMPANY  
 WV 515709  
 GRANT DISTRICT  
 MARION COUNTY, WV  
 WATERSHED: BOOTH'S CREEK

DRAWN BY: DAM	CHECKED BY: JMS	APPROVED BY: DEM	FIGURE NO.:
DATE: FEBRUARY 23, 2015	DWG SCALE: 1"=1000'	PROJECT NO: 142-405	

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**ATTACHMENT D**  
**CONCEPTUAL SITE PLANS**

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**ATTACHMENT E**

**WETLAND AND STREAM DELINEATION REPORT**

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**ATTACHMENT F**  
**PROPOSED FINAL SITE PLANS**

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WW - 6B  
(3/13)

CASING AND TUBING PROGRAM

18)

TYPE	Size	New or Used	Grade	Weight per ft.	FOOTAGE: for Drilling	INTERVALS: Left in Well	CEMENT: Fill- up (Cu.Ft.)
Conductor	26	New	MC-50	81	40	40	49 C.T.S.
Fresh Water	13 3/8	New	MC-50	54	248	248	241 C.T.S.
Coal	-	-	-	-	-	-	-
Intermediate	9 5/8	New	MC-50	40	2,741	2,741	1,094 C.T.S.
Production	5 1/2	New	P-110	20	12,425	12,425	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

*wrh 3120-15*

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.375	-	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	* See Note 2	1.21
Coal	-	-	-	-	-	-
Intermediate	9 5/8	12 3/8	0.395	3,950	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing						
Liners						

Packers

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		

**Note 1:** EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

**Note 2:** Reference Variance 2014-17. (Attached)

*Freshwater string need to go atleast 300 FOOT*

Page 2 of 3

*Can't due to void - Jan 7-5-15*

Received  
Office of Oil & Gas  
MAR 24 2015

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

Drill and complete a new horizontal well in the Marcellus Formation. The vertical drill to go down to an approximate depth of 5586'. Then kick off the horizontal leg into the Marcellus using a slick water frac. The hole will be drilled no more than 100' below the mine void. Cement basket(s) and centralizers will be run to facilitate cementing the coal protection casing string 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, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): ± 22.28

22) Area to be disturbed for well pad only, less access road (acres): ± 6.71

23) Describe centralizer placement for each casing string.

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

24) Describe all cement additives associated with each cement type. **Surface (Type 1 Cement): 0-3% Calcium Chloride**

Used to speed the setting of cement slurries.

0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.

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

**Production:**

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

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

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

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

60 % Calcium Carbonate. Acid solubility.

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

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

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

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

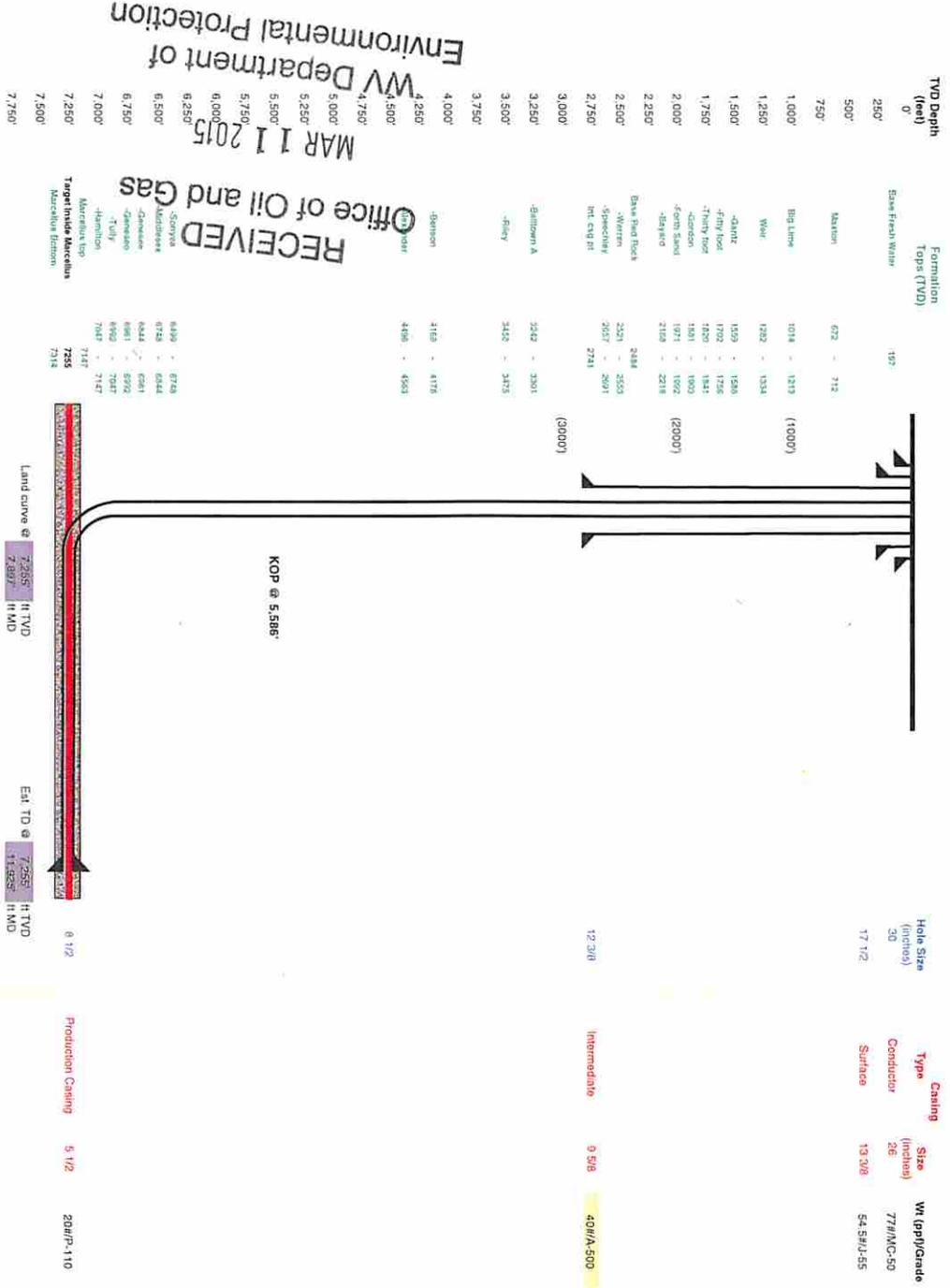
**Production:** Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.

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

\*Note: Attach additional sheets as needed.

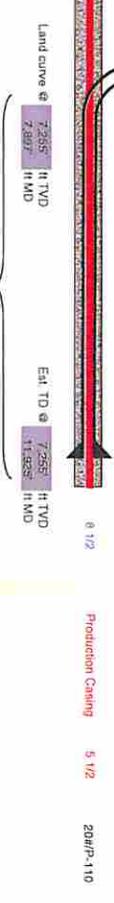
4704902386

Well: 515712(FAW55H4)  
 EOT Production  
 Fairmont West  
 Marion  
 West Virginia  
 Admin: 335  
 Vertical Section: 4111



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 WV Department of Environmental Protection  
 MAR 11 2015

Proposed Well Work  
 Drill and complete a new horizontal well in the Marcellus formation.  
 The vertical drill to go down to an approximate depth of 5586'.  
 Then kick off the horizontal leg into the Marcellus using a slick water frac.

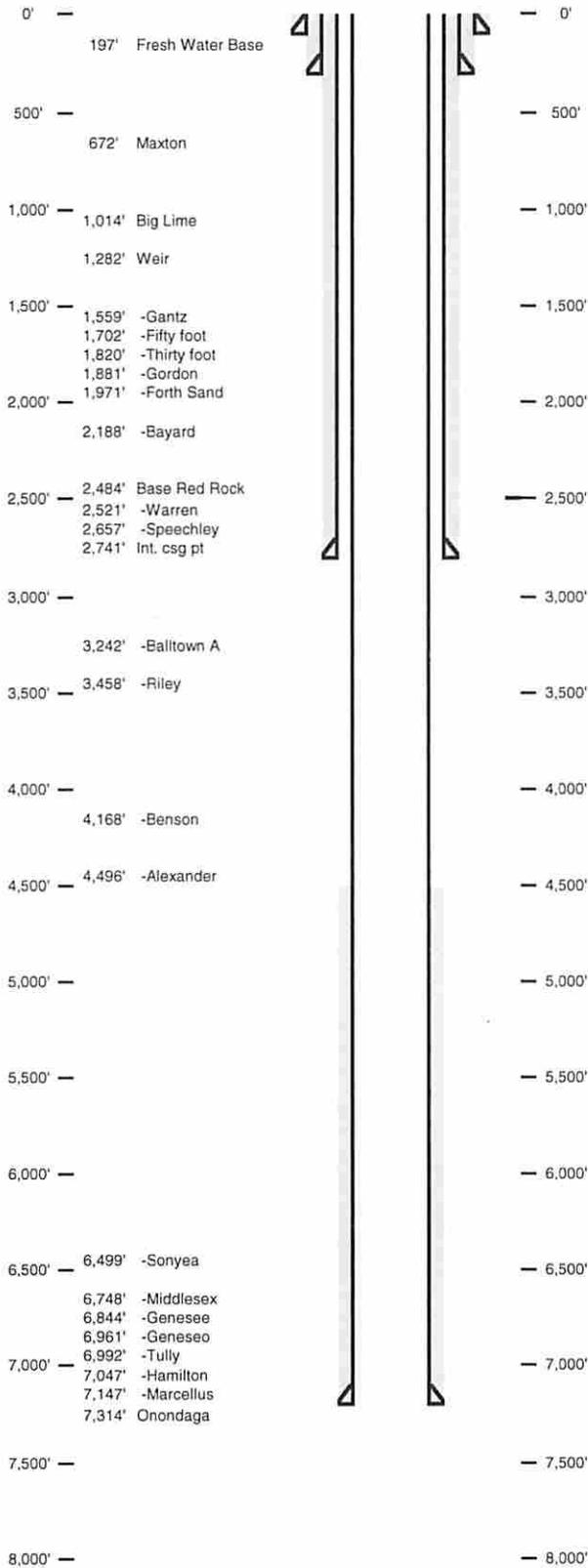


4704902386

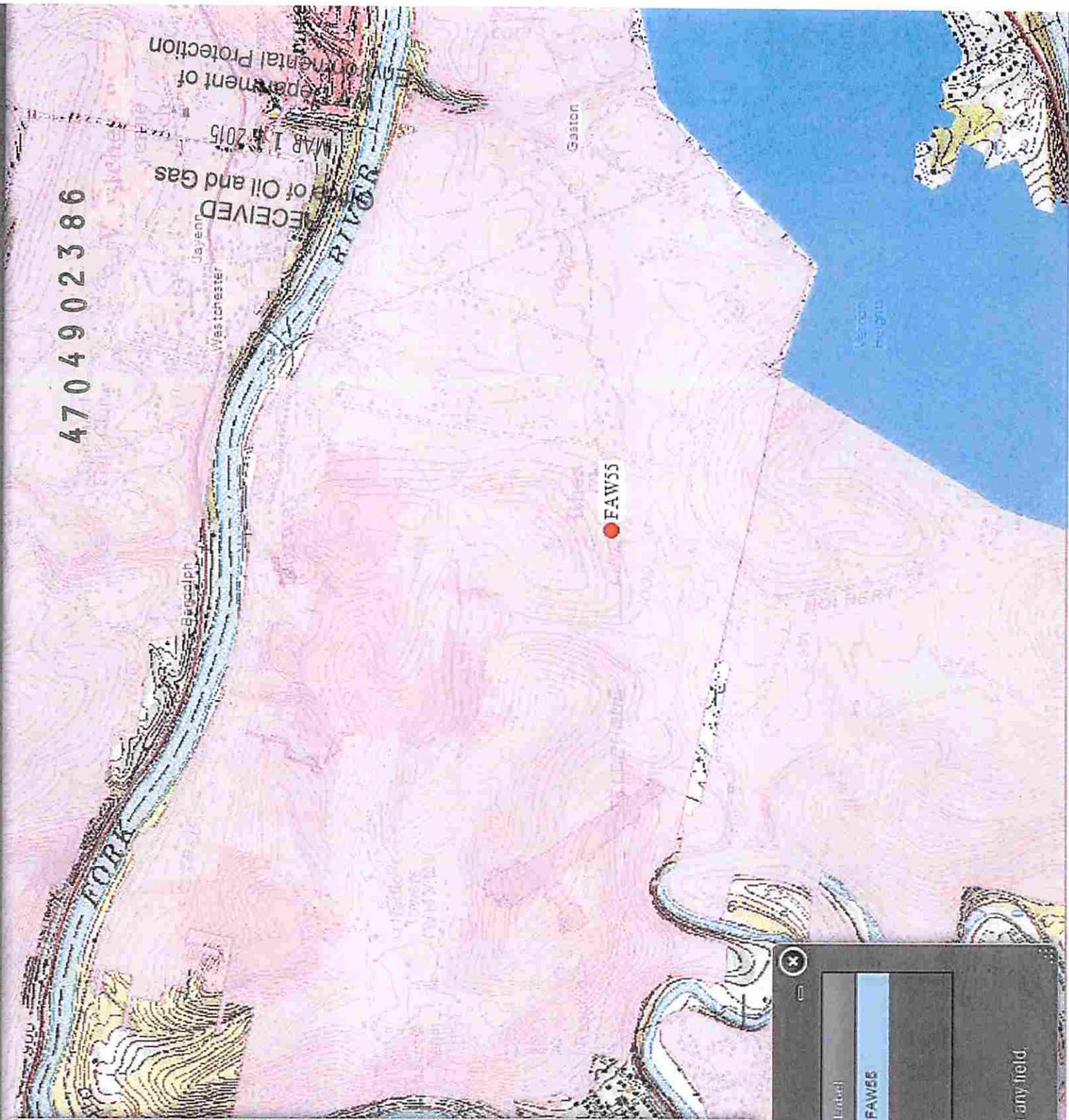
Well Schematic  
EQT Production

Well Name 515712(FAW55FA)  
County Marion  
State West Virginia

Elevation KB: 1044  
Target Marcellus  
Prospect  
Azimuth 335  
Vertical Section 4111



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WV Department of  
Environmental Protection



Layers

Layers

Lat	Long	Lat	Long	Label
0	-80.18145	0	0	FAW55

Zoom

Delete

table above. Decimals can be used in any field.

4704902386



---

west virginia department of environmental protection

---

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

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

March 18, 2014

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

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

Promoting a healthy environment.

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4704902386



west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
(304) 928-0450  
(304) 928-0452 fax

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

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

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

**REPORT OF THE OFFICE**

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

**FINDINGS OF FACT**

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

Promoting a healthy environment.

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**MAR 11 2015**  
**WV Department of**  
**Environmental Protection**

4704902386

**CONCLUSIONS OF LAW**

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

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

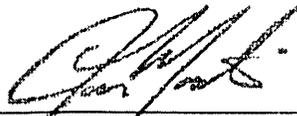
**ORDER**

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief  
Office of Oil and Gas

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Environmental Protection

WW-9 (5/13)

API No. 47 - 049 - 0 Operator's Well No. 515712

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name EQT Production Company OP Code 306686 Watershed (HUC10) Booths Creek Quadrangle Fairmont West 7.5' Elevation 1031.0 County Marion District Grant

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

Will a pit be used? Yes: X No:

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

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air is used to drill the top-hole sections of the wellbore, Surface, Intermediate, and Pilot hole sections, water based mud is used to drill the curve and lateral.

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

Additives to be used in drilling medium? MILBAR, Viscosifer, Alkalinity Control, Lime, Chloride Salts, Rate Filtration Control, Deflocculant, Lubricant, Detergent, Defoaming, Walnut Shell, X-Cide, SOLTEX Terra. Of the listed chemicals the following are generally used when drilling on air: lubricant, detergent, defoaming. Water based fluids use the following chemicals: MILBAR, viscosifer, alkalinity control, lime, chloride salts, rate filtration control, deflocculant, lubricant, detergent, defoaming, walnut shell, x-cide, SOLTEX terra

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, Line, sawdust) n/a
- Landfill or offsite name/permit number? See Attached List

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.

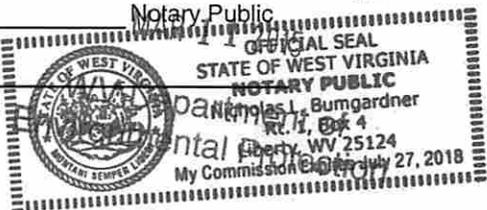
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 9 day of March

My commission expires 7/27/2018

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WW-9

4704902386

Operator's Well No. 515712

Proposed Revegetation Treatment: Acres Disturbed 22.28 Prevegetation pH 4.5

Lime 3 Tons/acre or to correct to pH 6.5

Fertilize type \_\_\_\_\_

Fertilizer Amount 1/3 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

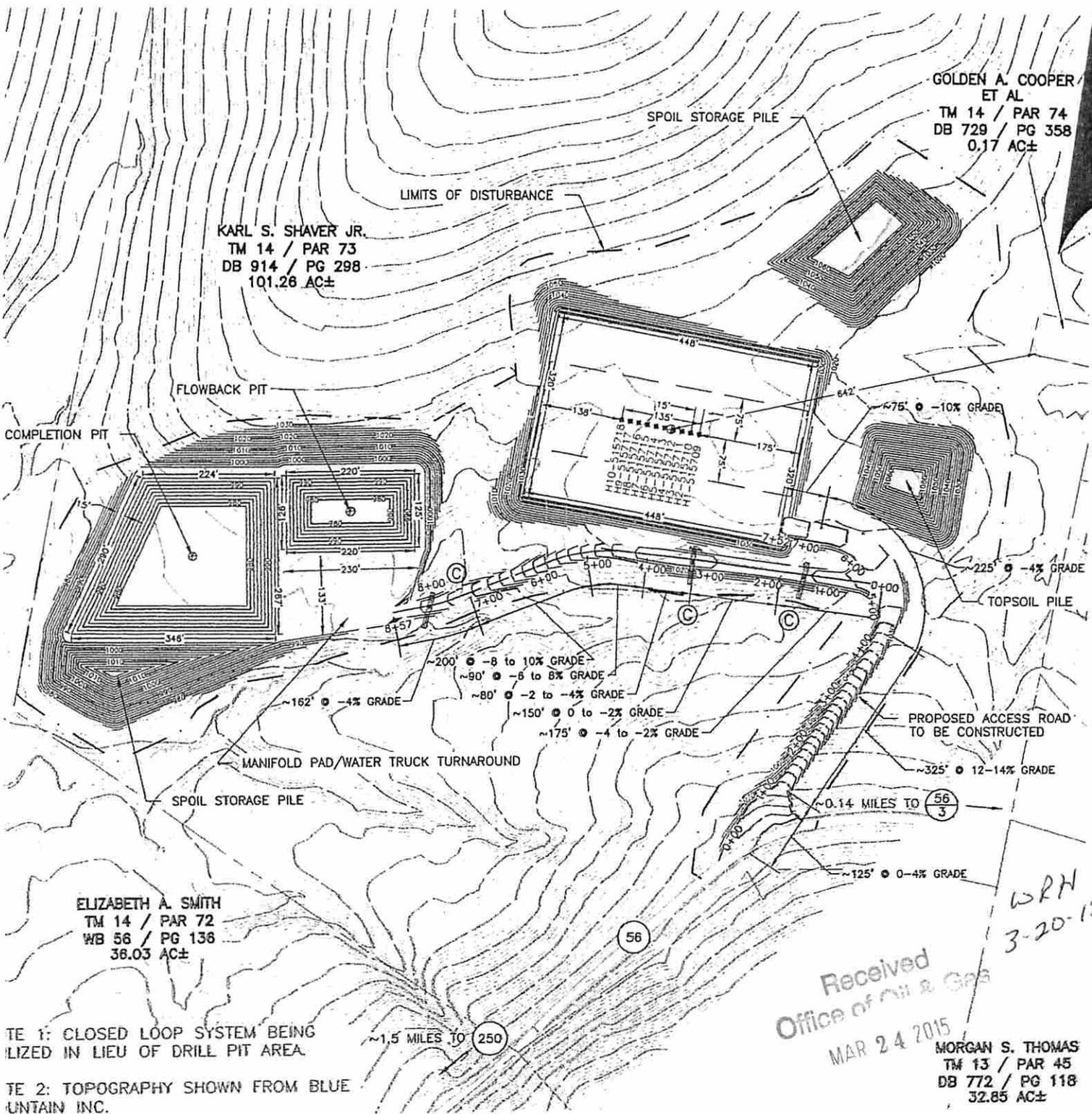
Plan Approved by: Bill Hochstet

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

Title: Environmental Inspector Date: 3-20-15

Field Reviewed? (  ) Yes (  ) No

Received  
Office of the State  
MAR 24 2015



KARL S. SHAVER JR.  
TM 14 / PAR 73  
DB 914 / PG 298  
101.26 AC±

GOLDEN A. COOPER  
ET AL  
TM 14 / PAR 74  
DB 729 / PG 358  
0.17 AC±

ELIZABETH A. SMITH  
TM 14 / PAR 72  
WB 56 / PG 138  
38.03 AC±

TE 1: CLOSED LOOP SYSTEM BEING  
UTILIZED IN LIEU OF DRILL PIT AREA.

TE 2: TOPOGRAPHY SHOWN FROM BLUE  
MOUNTAIN INC.

Received  
Office of Oil & Gas  
MAR 24 2015

MORGAN S. THOMAS  
TM 13 / PAR 45  
DB 772 / PG 118  
32.85 AC±

© - DENOTES INSTALL MINIMUM 15" DIA. CULVERT



Civil & Environmental Consultants, Inc.

99 Cambridge Place - Bridgeport, WV 26330  
Ph: 304.933.3119 - Fax: 304.933.3327  
www.cecinc.com

EQT PRODUCTION COMPANY  
FAW 55 WELL PAD  
GRANT DISTRICT,  
MARION COUNTY, WEST VIRGINIA  
PERMIT APPLICATION  
REC PLAN

DRAWN BY:

RMC CHECKED BY:

JMS APPROVED BY:

DEM FIGURE NO.:

4704902386

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

**CWS TRUCKING INC.**

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

**BROAD STREET ENERGY LLC**

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

**LAD LIQUID ASSETS DISPOSAL INC.**

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

**TRIAD ENERGY**

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

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

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

**KING EXCAVATING CO.**

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

**Waste Management - Meadowfill Landfill**

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

**Waste Management - Northwestern Landfill**

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

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WV Department of  
Environmental Protection



4704902385

Where energy meets innovation.™

# Site Specific Safety Plan

EQT FAW 55 Pad

Fairmont

Marion County, WV

515709

515711

515712

For Wells:

515715

Date Prepared:

October 24, 2014

[Signature]  
EQT Production

Permitting Supervisor  
Title

Date

3-9-15

Bill Henderson  
WV Oil and Gas Inspector

Environmental Inspector  
Title

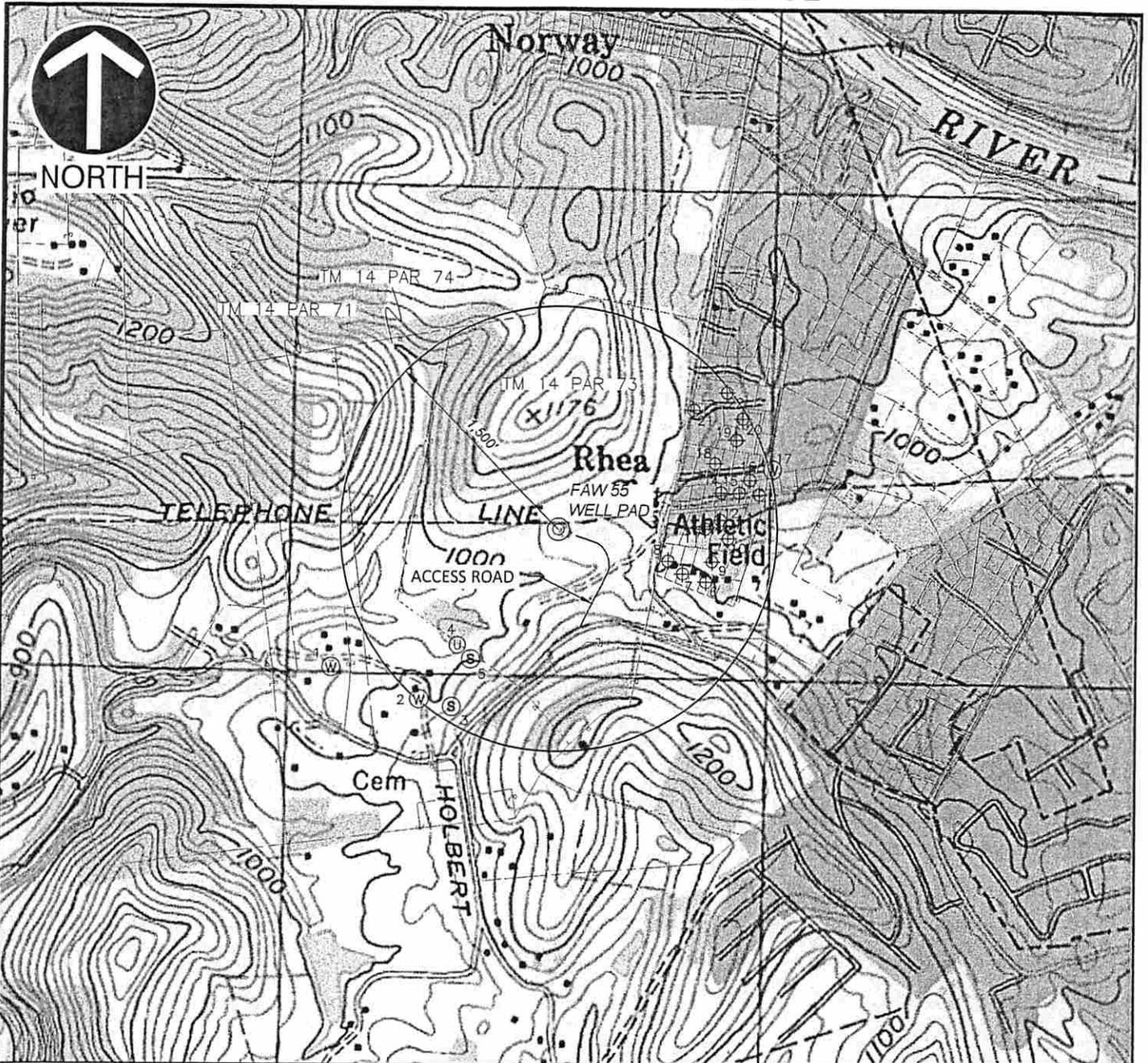
Date

3-20-15

Received  
Office of Oil & Gas  
MAR 24 2015

4704902386

KARL S. SHAVER JR. LEASE



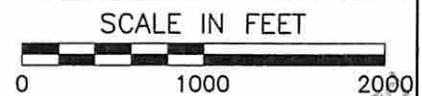
F:\2014\142-405\Survey\Draw\Well Plats\142405-Well Plat-FAW55-H1-WATER\_TOPO.dwg\H1 WATER TOPO] LS:(2/23/2015 - hmalulich) - LP: 2/25/2015 4:59 PM

WELL PAD	⊙	1500' BUFFER	○	WATER WELL	⊕	CISTERN	⊕
ACCESS ROAD TO WELL	—	PARCEL BOUNDARY	- - -	SPRING	⊙	NO ONE HOME	⊕

W.P.H.  
3-JD

**REFERENCE**

1. U.S.G.S. 7.5' TOPOGRAPHIC MAP, FAIRMONT WEST QUADRANGLE, WV, DATED: 1997



**Civil & Environmental Consultants, Inc.**  
 99 Cambridge Place - Bridgeport, WV 26330  
 Ph: 304.933.3119 · Fax: 304.933.3327  
 www.cecinc.com

EQT PRODUCTION COMPANY  
 WV 515709  
 GRANT DISTRICT  
 MARION COUNTY, WV

WATERSHED: BOOTH'S CREEK

Received  
 Office of Oil & Gas  
 MAR 24 2015

DRAWN BY:	DAM	CHECKED BY:	JMS	APPROVED BY:	DEM	FIGURE NO.:
DATE:	FEBRUARY 23, 2015	DWG SCALE:	1"=1000'	PROJECT NO.:	142-405	

# EQT PRODUCTION COMPANY WELL NO. 515712 - KARL S. SHAVER JR LEASE

LONGITUDE: 80°10'00"

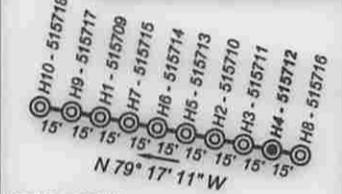
### NOTES ON SURVEY

1. NO OCCUPIED DWELLINGS OR BUILDINGS 2500 SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY WITHIN 625' OF THE CENTER OF THE WELL PAD WERE OBSERVED.
2. NO WATER WELLS OR DEVELOPED SPRINGS USED FOR HUMAN OR DOMESTIC ANIMAL CONSUMPTION WERE FOUND WITHIN 250'.
3. SURFACE OWNERSHIP TAKEN FROM THE MARION COUNTY TAX ASSESSOR AND COUNTY CLERK OFFICES IN SEPTEMBER, 2014.
4. WELL LATITUDE AND LONGITUDE FROM SURVEY GRADE OPUS SOLUTION DERIVED ON JULY 17, 2014.
5. BEARINGS SHOWN ARE BASED UPON THE WV STATE PLANE COORDINATE SYSTEM, NAD 83 GRID NORTH ZONE.
6. LEASE INFORMATION PROVIDED BY EQT PRODUCTION COMPANY

LEASE BOUNDARY (approx.)	---
SURFACE BOUNDARY (approx.)	- - - -
CREEK/STREAM	~~~~~
ROADS	=====
RAILROAD	-----
PROPOSED LATERAL	-----
500' LATERAL OFFSET	-----
EXISTING GAS WELL (active)	⊙
EXISTING GAS WELL (plugged)	⊙
EXISTING GAS WELL (canceled permit)	⊙
FOUND MONUMENT (as noted)	⊙

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

### FAW 55 PAD LAYOUT



NOT TO SCALE

ID	BEARING	DISTANCE
L1	S 16°08' W	1095.63'
L2	S 67°48' W	1244.33'
L3	S 66°02' W	750.80'
L4	N 25°00' W	4027.98'
L5	N 55°30' W	1028.36'
L6	N 07°48' W	242.98'
L7	N 67°24' E	763.26'

### REFERENCES



99 Cambridge Place Bridgeport, WV 26330  
Toll Free 855-488-9539  
Fax 304-933-3327



### Civil & Environmental Consultants, Inc.

DATE FEB 12, 2015

SCALE 1" = 1000' ACCURACY 1:200

OPERATORS WELL No. 515712

47 - 049 - 02386 H6A  
API No.

TYPE OF WELL:

GAS:

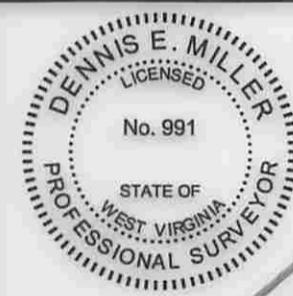
Production  Storage  \*Deep  \*Shallow

PROPOSED WORK ON LOCATION:

Drill  Drill Deeper  Redrill  Convert   
Fracture/ Stimulate  \*Plug off to Formation   
Perforate New Formation  Plug and Abandon   
Clean/ Replug  Other Than Above   
If "Other" Please see Details below—  
DETAILS OF PROPOSED WORK \_\_\_\_\_

\*TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TVD: 7,147'



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 rules issued and prescribed by the Division of Environmental Protection.

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



WELL AREA & LOCATION INFORMATION:

ELEVATION SOURCE DGPS (OPUS)  
ELEVATION 1035' (GROUND), 1031' (PROPOSED)  
WATERSHED BOOTH'S CREEK DISTRICT GRANT  
COUNTY MARION TOPO QUAD FAIRMONT WEST  
SURFACE OWNER KARL S. SHAVER JR ET AL  
ACREAGE 101.26 ±  
ROYALTY OWNER KARL S. SHAVER JR, LEASE NO. 965557  
LEASE ACREAGE 101.26 ±

WELL OPERATOR EQT PRODUCTION COMPANY

DESIGNATED AGENT REX C. RAY

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

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

SURVEYED LATITUDE 39°27'41.44"

49-02386

WW-6A1  
(5/13)

Operator's Well No. 515712

**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
<u>Lease 965557</u>	Karl S. Shaver, Jr. Hunt Marcellus, LLC	Hunt Marcellus, LLC EQT Production Company	Min 1/8 pd	DB 1071/97 AB 46/916
<u>Lease 965601</u>	Elizabeth Ann Shaver, a/k/a Elizabeth Wycoff Hunt Marcellus, LLC	Hunt Marcellus, LLC EQT Production Company	Min 1/8 pd	DB 1073/406 AB 46/916
<u>Lease 965558</u>	Karl S. Shaver, Jr. Hunt Marcellus, LLC	Hunt Marcellus, LLC EQT Production Company	Min 1/8 pd	DB 1071/101 AB 46/916
<u>Lease 965556</u>	Karl S. Shaver, Jr. Hunt Marcellus, LLC	Hunt Marcellus, LLC EQT Production Company	Min 1/8 pd	DB 1071/103 AB 46/916

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

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

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

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

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

Well Operator: EQT Production Company  
 By:   
 Its: Permitting Supervisor

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

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

API No. 47 - 049 - 0  
Operator's Well No. 515712  
Well Pad Name: FAW55

**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: WV	UTM NAD 83 Easting: 569,573.45
County: Marion	UTM NAD 83 Northing: 4,368,305.06
District: Grant	Public Road Access: CR 56
Quadrangle: Fairmont West 7.5'	Generally used farm name: Shaver
Watershed: Booths Creek	

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

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

\*PLEASE CHECK ALL THAT APPLY

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

**OOG OFFICE USE ONLY**

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

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**Required Attachments:**

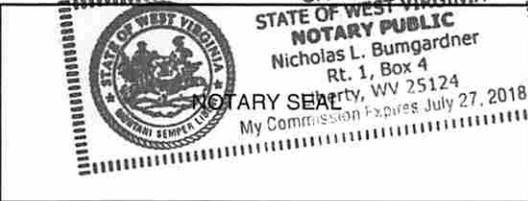
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

**Certification of Notice is hereby given:**

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

Well Operator: EQT Production Company  
By: Victoria J. Roark  
Its: Permitting Supervisor  
Telephone: 304-848-0070

Address: P.O. Box 280  
Bridgeport, WV 26330  
Facsimile: 304-848-0040  
Email: vroark@eqt.com



Subscribed and sworn before me this 9 day of MARCH, 2015  
*[Signature]* Notary Public  
My Commission Expires 7/27/2018

**Oil and Gas Privacy Notice:**

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

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API NO. 47 - 049 - 0  
OPERATOR WELL NO. 515712  
Well Pad Name: FAW55

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: \_\_\_\_\_ Date Permit Application Filed: \_\_\_\_\_

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 for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

SURFACE OWNER(s)  
Name: Karl S. Shaver Jr.  
Address: POA for Larry A. Shaver  
129 Old Monongah Road  
Fairmont, WV 26554

Name: 0  
Address: 0  
0  
0

SURFACE OWNERS(s) (Road and/or Other Disturbance)  
Name: Karl S. Shaver Jr.  
Address: POA for Larry A. Shaver  
129 Old Monongah Road  
Fairmont, WV 26554

Name: 0  
Address: 0  
0  
0

SURFACE OWNER(s) (Impoundments/Pits)  
Name: Karl S. Shaver Jr.  
Address: POA for Larry A. Shaver  
129 Old Monongah Road  
Fairmont, WV 26554

COAL OWNER OR LESSEE  
Name: Bell Shareholders, LLC  
Address: 5700 Buck Hollow Drive  
Alpharetta, GA 30005

See attached for additional coal owners.

COAL OPERATOR  
Name: 0  
Address: 0  
0

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(S)  
Name: Elizabeth A. ...  
Address: 259 OLD MONONGAH RD  
FAIRMONT WV 26554-5374

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

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\*Please attach additional forms if necessary

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API NO. 47 - 049 - 0  
OPERATOR WELL NO. 515712  
Well Pad Name: FAW55

**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](http://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 spring 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 shall prevent 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

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API NO. 47 - 049 - 0  
OPERATOR WELL NO. 515712  
Well Pad Name: FAW55

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 or determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

**Written Comment:**

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

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

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

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OPERATOR WELL NO. 515712  
Well Pad Name: FAW55

**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 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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Notice is hereby given by:

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

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

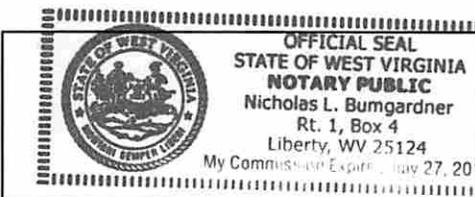
Oil and Gas Privacy Notice:

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

*[Handwritten signature]*

By: Victoria Roark  
Its: Permitting Supervisor  
Subscribed and sworn before on 9 day of MARCH, 2015  
[Signature] Notary Public  
My Commission Expires 7/27/2018



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**Additional Coal Owners:**

Karl S. Shaver Jr. ✓  
POA for Larry A. Shaver  
129 Old Monongah Road  
Fairmont, WV 26554

Corrected from 03/11/15  
to 03/12/15

Shirley A. Martin,  
Trustee of the Carl J. Martin Testamentary Trust "A"  
P.O. Box 788 ✓  
Buckhannon, WV 26201

**Additional water purveyors:**

Glen G & Ruth A Shaver ✓  
RR1 Box 385B  
Fairmont, WV 26554

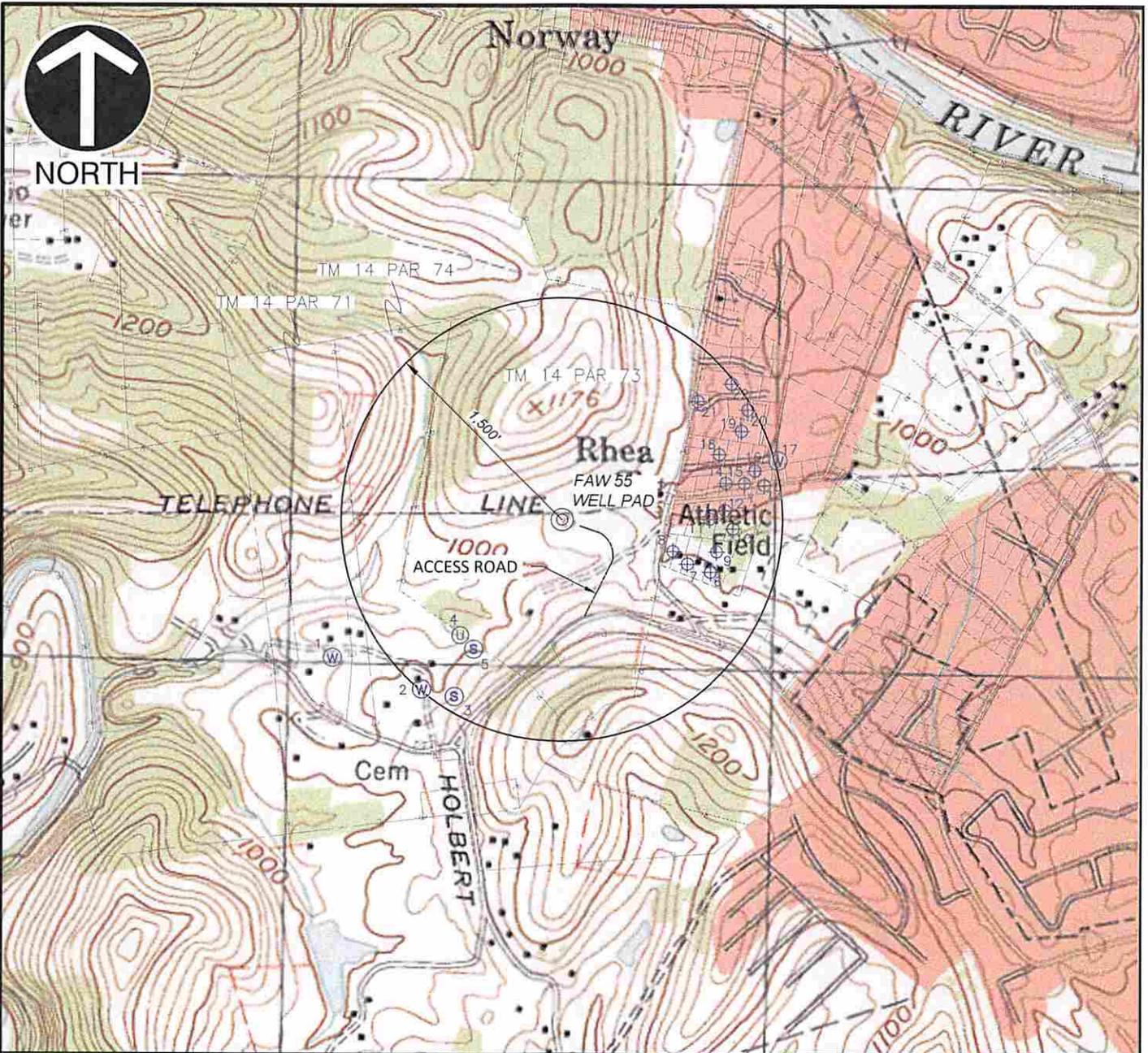
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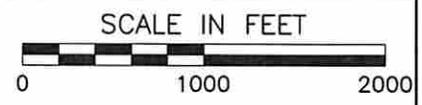
KARL S. SHAVER JR. LEASE



WELL PAD		1500' BUFFER		WATER WELL		CISTERN	
ACCESS ROAD TO WELL		PARCEL BOUNDARY		SPRING		NO ONE HOME	

**REFERENCE**

1. U.S.G.S. 7.5' TOPOGRAPHIC MAP, FAIRMONT WEST QUADRANGLE, WV, DATED: 1997



**Civil & Environmental Consultants, Inc.**  
 99 Cambridge Place - Bridgeport, WV 26330  
 Ph: 304.933.3119 · Fax: 304.933.3327  
 www.cecinc.com

EQT PRODUCTION COMPANY  
 WV 515709  
 GRANT DISTRICT  
 MARION COUNTY, WV

WATERSHED: BOOTH'S CREEK  
 MAP # 1  
 2015

DRAWN BY: DAM	CHECKED BY: JMS	APPROVED BY: DEM	FIGURE NO: 1
DATE: FEBRUARY 23, 2015	DWG SCALE: 1"=1000'	PROJECT NO: 142-405	DEPARTMENT OF ENVIRONMENTAL PROTECTION

F:\2014\142-405\Survey\Draw\Well Plats\142-405-WELL\_PLAT-FAW55-H1-WATER\_TOPO.dwg\H1 WATER TOPOJ LS(2/23/2015 - hmalutich) - LP: 2/25/2015 4:59 PM



## Table 1 - Water Source Identification

EQT Well Pad Name: FAW 55 Submittal Date: 3/9/2015

EQT Well Number: 515709, 515711, 515712, 515715, 515716

Survey/Engineering Company: Civil & Environmental Consultants Inc.

Site Number: 1 Distance from Gas Well (ft): 1823

Surface Owner/Occupant: Glen G & Ruth A Shaver (Life DB 1070-169)

Address: RR 1 Box 385B, Fairmont, WV 26554 Phone #: \_\_\_\_\_

Field Located Date: 10/20/14 Owner home during survey (yes/no): yes

Coordinates: 39.4589374 , -80.1969046 (decimal degrees - NAD 83)

Contact Attempts (Date): 1st: 10/20/14 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_

Comments: par. 71, has water well, wants well tested

Site Number: 2 Distance from Gas Well (ft): 1494

Surface Owner/Occupant: Elizabeth A Smith

Address: 259 Old Monongah Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_

Field Located Date: 10/20/14 Owner home during survey (yes/no): yes

Coordinates: 39.4583692 , -80.1947539 (decimal degrees - NAD 83)

Contact Attempts (Date): 1st: 10/20/14 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_

Comments: par. 72, has water well, wants well tested

Site Number: 3 Distance from Gas Well (ft): 1406

Surface Owner/Occupant: Elizabeth A Smith

Address: 259 Old Monongah Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_

Field Located Date: 10/20/14 Owner home during survey (yes/no): yes

Coordinates: 39.4582313 , -80.1939701 (decimal degrees - NAD 83)

Contact Attempts (Date): 1st: 10/20/14 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_

Comments: par. 72, property has spring, wants spring tested

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Site Number: 4 Distance from Gas Well (ft): 1034  
Surface Owner/Occupant: Elizabeth A Smith  
Address: 259 Old Monongah Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/20/14 Owner home during survey (yes/no): yes  
Coordinates: 39.4593135 , -80.1936686 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/20/14 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 72, property has cistern, wants cistern tested

Site Number: 5 Distance from Gas Well (ft): 1038  
Surface Owner/Occupant: Elizabeth A Smith  
Address: 259 Old Monongah Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/20/14 Owner home during survey (yes/no): yes  
Coordinates: 39.459246 , -80.1935836 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/20/14 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 72, property has spring, wants spring tested

Site Number: 6 Distance from Gas Well (ft): 1057  
Surface Owner/Occupant: Emanuel G Billiris  
Address: 29 Lois Lane, Fairmont, WV 26554 Phone #: 304-290-9099  
Field Located Date: 10/21/14 Owner home during survey (yes/no): no  
Coordinates: 39.4605887 , -80.1878377 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/21/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/21/14  
Comments: par. 59, owner called and said there is no well on property, uses city water

Site Number: 7 Distance from Gas Well (ft): 889  
Surface Owner/Occupant: Jeremy J & Jamie J Edgell (20%) & Pamela Marocco (40%) & C/O Marshal & Stephanie Hughes  
Address: RR 9 Box 120A, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
Coordinates: 39.4607414 , -80.1883966 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 57, uses city water

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Site Number: 8 Distance from Gas Well (ft): 770  
 Surface Owner/Occupant: Gregory R or Linda C Dunn  
 Address: RR 9 Box 120, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4609747 , -80.1887461 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 55, uses city water

Site Number: 8 Distance from Gas Well (ft): 770  
 Surface Owner/Occupant: Gregory R or Linda C Dunn  
 Address: RR 9 Box 120, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4609747 , -80.1887461 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 56, uses city water

Site Number: 9 Distance from Gas Well (ft): 1061  
 Surface Owner/Occupant: L Zane Shuck  
 Address: 401 Highview Pl., Morgantown, WV 26505 Phone #: 304-288-0919  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4609698 , -80.1876892 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/28/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 58, owner called on 10-28-14 and said there is no well on property, uses city water

Site Number: 9 Distance from Gas Well (ft): 1061  
 Surface Owner/Occupant: L Zane Shuck  
 Address: 401 Highview Pl., Morgantown, WV 26505 Phone #: 304-288-0919  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4609698 , -80.1876892 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/28/14 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 58.1, owner called on 10-28-14 and said there is no well on property, uses city water

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Site Number: 10 Distance from Gas Well (ft): 1152  
 Surface Owner/Occupant: Kenneth Decker  
 Address: RR 9 Box 148, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4614078 , -80.1873013 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 50, uses city water

Site Number: 11 Distance from Gas Well (ft): 990  
 Surface Owner/Occupant: Michael R & Stacia M Shaw  
 Address: 123 Norway Loop Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4615781 , -80.1878729 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 52, uses city water

Site Number: 12 Distance from Gas Well (ft): 1100  
 Surface Owner/Occupant: David E Campbell  
 Address: 28 Norway Loop Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4617438 , -80.1874946 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 51, uses city water

Site Number: 13 Distance from Gas Well (ft): 1385  
 Surface Owner/Occupant: Dolores Calkusic  
 Address: 45 Norway Loop Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4622202 , -80.1865572 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 49, uses city water

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Site Number: 14 Distance from Gas Well (ft): 1132  
Surface Owner/Occupant: Elizabeth J Brady  
Address: RR 9 Box 161, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
Coordinates: 39.4622497 , -80.187481 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
Comments: par. 45, uses city water

Site Number: 15 Distance from Gas Well (ft): 1253  
Surface Owner/Occupant: Anna B Blaker  
Address: 113 Nottingham Lane, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
Coordinates: 39.4622482 , -80.1870403 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
Comments: par. 46, uses city water

Site Number: 15 Distance from Gas Well (ft): 1253  
Surface Owner/Occupant: Anna B Blaker  
Address: 113 Nottingham Lane, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
Coordinates: 39.4622482 , -80.1870403 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
Comments: par. 47, uses city water

Site Number: 16 Distance from Gas Well (ft): 1343  
Surface Owner/Occupant: Dolores Calkusic  
Address: 45 Norway Loop Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
Coordinates: 39.4624888 , -80.1867868 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 48, uses city water

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(Insert additional pages as needed)

Site Number: 17 Distance from Gas Well (ft): 1528  
 Surface Owner/Occupant: Dolores Calkusic  
 Address: 45 Norway Loop Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4626014 , -80.18636764 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 48, R. Flanagan says owner recently moved, possible well across from TM 13A P 34 is on this property, no contact has been made with new owner, possible well has been shot in

Site Number: 18 Distance from Gas Well (ft): 1149  
 Surface Owner/Occupant: Gerald B III & Jan L Reese  
 Address: 19 Quint Dr., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4627865 , -80.1876489 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/27/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 37, owner called in 10-27-14 and said there is no well on property, uses city water

Site Number: 18 Distance from Gas Well (ft): 1149  
 Surface Owner/Occupant: Gerald B III & Jan L Reese  
 Address: 19 Quint Dr., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4627865 , -80.1876489 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/27/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 38, owner called in 10-27-14 and said there is no well on property, uses city water

Site Number: 19 Distance from Gas Well (ft): 1352  
 Surface Owner/Occupant: William L & Norma L Jones  
 Address: 54 Granite Dr., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
 Coordinates: 39.4632189 , -80.1871172 (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
 Comments: par. 26, uses city water

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Site Number: 19 Distance from Gas Well (ft): 1352  
Surface Owner/Occupant: William L & Norma L Jones  
Address: 54 Granite Dr., Fairmont, WV 26554 Phone #:  
Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
Coordinates: 39.4632189 , -80.1871172 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: Date Door Hanger Left: 10/22/14  
Comments: par. 29, uses city water

Site Number: 19 Distance from Gas Well (ft): 1352  
Surface Owner/Occupant: William L & Norma L Jones  
Address: 54 Granite Dr., Fairmont, WV 26554 Phone #:  
Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
Coordinates: 39.4632189 , -80.1871172 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: Date Door Hanger Left: 10/22/14  
Comments: par. 31, uses city water

Site Number: 20 Distance from Gas Well (ft): 1456  
Surface Owner/Occupant: Daniel L & Florence M Sloan  
Address: 30 Granite Dr., Fairmont, WV 26554 Phone #:  
Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
Coordinates: 39.4636102 , -80.1869761 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: Date Door Hanger Left: 10/22/14  
Comments: par. 28, uses city water

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Site Number: 21 Distance from Gas Well (ft): 1216  
Surface Owner/Occupant: Henry L Jr. & Dianna Sloan  
Address: 120 Norway Loop Rd., Fairmont, WV 26554 Phone #:  
Field Located Date: 10/22/14 Owner home during survey (yes/no): no  
Coordinates: 39.4637613 , -80.1881778 (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 3rd: Date Door Hanger Left:  
Comments: par. 24, no house on property

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Site Number: 22 Distance from Gas Well (ft): 1467
Surface Owner/Occupant: Lindsay Thompson (Life WB 81-755)(DB961-784/790) C/O William Thompson
Address: RR 9 Box 215, Fairmont, WV 26554 Phone #:
Field Located Date: 10/22/14 Owner home during survey (yes/no): no
Coordinates: 39.4640913, -80.1873692 (decimal degrees - NAD 83)
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: Date Door Hanger Left: 10/22/14
Comments: par. 23, uses city water

Site Number: Distance from Gas Well (ft):
Surface Owner/Occupant: Rose A Flanagan
Address: 41 Quint Dr., Fairmont, WV 26554 Phone #:
Field Located Date: 10/22/14 Owner home during survey (yes/no): yes
Coordinates: (decimal degrees - NAD 83)
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: Date Door Hanger Left: 10/22/14
Comments: par. 32, uses city water

Site Number: Distance from Gas Well (ft):
Surface Owner/Occupant: Rose A Flanagan
Address: 41 Quint Dr., Fairmont, WV 26554 Phone #:
Field Located Date: 10/22/14 Owner home during survey (yes/no): yes
Coordinates: (decimal degrees - NAD 83)
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: Date Door Hanger Left:
Comments: par. 33, uses city water

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Site Number: Distance from Gas Well (ft):
Surface Owner/Occupant: Rose A Flanagan
Address: 41 Quint Dr., Fairmont, WV 26554 Phone #:
Field Located Date: 10/22/14 Owner home during survey (yes/no): yes
Coordinates: (decimal degrees - NAD 83)
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: 10/31/14 Date Door Hanger Left: 10/22/14
Comments: par. 34, owner called in on 10-31-14 and said she has a well and spring, a follow-up call was made 2-19-15 and the "spring" is actually a wet weather seap and the possible well is not on her property but across the street, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: Co. Commission of Marion Co.  
Address: 200 Jackson St., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/24/14 Owner home during survey (yes/no): yes  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/24/14 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 39.3, uses city water

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: Hester A Malnick C/O Frank & Patricia Burton  
Address: 19 Norway Loop Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/22/14 Owner home during survey (yes/no): yes  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
Comments: par. 43, uses city water

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: Hester A Malnick C/O Frank & Patricia Burton  
Address: 19 Norway Loop Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: 10/22/14 Owner home during survey (yes/no): yes  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: 10/22/14 2nd: 10/30/14 3rd: \_\_\_\_\_ Date Door Hanger Left: 10/22/14  
Comments: par. 44, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: James W Shaver  
Address: 231 Old Monongah Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): no  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 72.1, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: George F McElroy  
Address: 31 Holbert Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 45, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: George F McElroy  
Address: 31 Holbert Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 46, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: George F McElroy  
Address: 31 Holbert Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 47, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: Karl S Shaver Jr.  
Address: 129 Old Monongah Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 70, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Ida F Shaver  
 Address: PO Box 854, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): no  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 71.2

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: David W & Shirleen Eddy  
 Address: 7 Norway Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 39.1, no well, uses city water

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Darrell K Jr. & Christle S Dawson  
 Address: RR 9 Box 116, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): no  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 39.2

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Roger Grove  
 Address: RR 9 Box 117, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 39, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Roger K Grove & Rebecca D Dickens  
 Address: RR 9 Box 117, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 43, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Michael J & Lisa Dublin  
 Address: RR 9 Box 121, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): no  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 54, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Henry L Jr. & Diana G Sloan  
 Address: 120 Norway Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 25, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Thomas H Reese  
 Address: 14 Norway Loop Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 53, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Michael & Wendy Hartman  
 Address: RR 9 Box 224, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 42, no well, uses city water

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Larry A Shaver C/O Michael & Wendy Hartman  
 Address: 78 Norway Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): no  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 41, no house on property

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Charles H & Juanita C Davis  
 Address: 10 Quint Dr., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 39, no well, uses city water

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Charles H & Juanita C Davis  
 Address: 10 Quint Dr., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 40, no well, uses city water

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Harry A Windon  
 Address: 27 Quint Dr., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 35, no well, uses city water

---

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Harry A Windon  
 Address: 27 Quint Dr., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 36, no well, uses city water

---

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: E J Morgan Investments Group LLC C/O Chris & Gloria Dick  
 Address: 1150 Colfax Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): no  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 45.2, apartment complex

---

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Thomas P Morgan  
 Address: 508 Old Monongah Rd., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): no  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 45.1

---

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Samuel J Cutrone  
 Address: 33 Lois Lane, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 60, owner said groundwater spring on adjoining property (TM 13 - P 41)

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Samuel J Cutrone  
 Address: 33 Lois Lane, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 61, owner said groundwater spring on adjoining property (TM 13 - P 41)

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Samuel J Cutrone  
 Address: 33 Lois Lane, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): yes  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 62, owner said groundwater spring on adjoining property (TM 13 - P 41)

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 Office of Oil and Gas  
 MAR 11 2015  
 WV Department of  
 Environmental Protection

Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
 Surface Owner/Occupant: Golden A Cooper C/O Jackie Hess  
 Address: RR 9 Box 143, Fairmont, WV 26554 Phone #: \_\_\_\_\_  
 Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): no  
 Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
 Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
 Comments: par. 74, Church (New Life Worship)

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Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: Co. Commission of Marion Co.  
Address: 200 Jackson St., Fairmont, WV 26554 Phone #: \_\_\_\_\_  
Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): \_\_\_\_\_  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date): 1st: \_\_\_\_\_ 2nd: \_\_\_\_\_ 3rd: \_\_\_\_\_ Date Door Hanger Left: \_\_\_\_\_  
Comments: par. 38, no well, uses city water

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

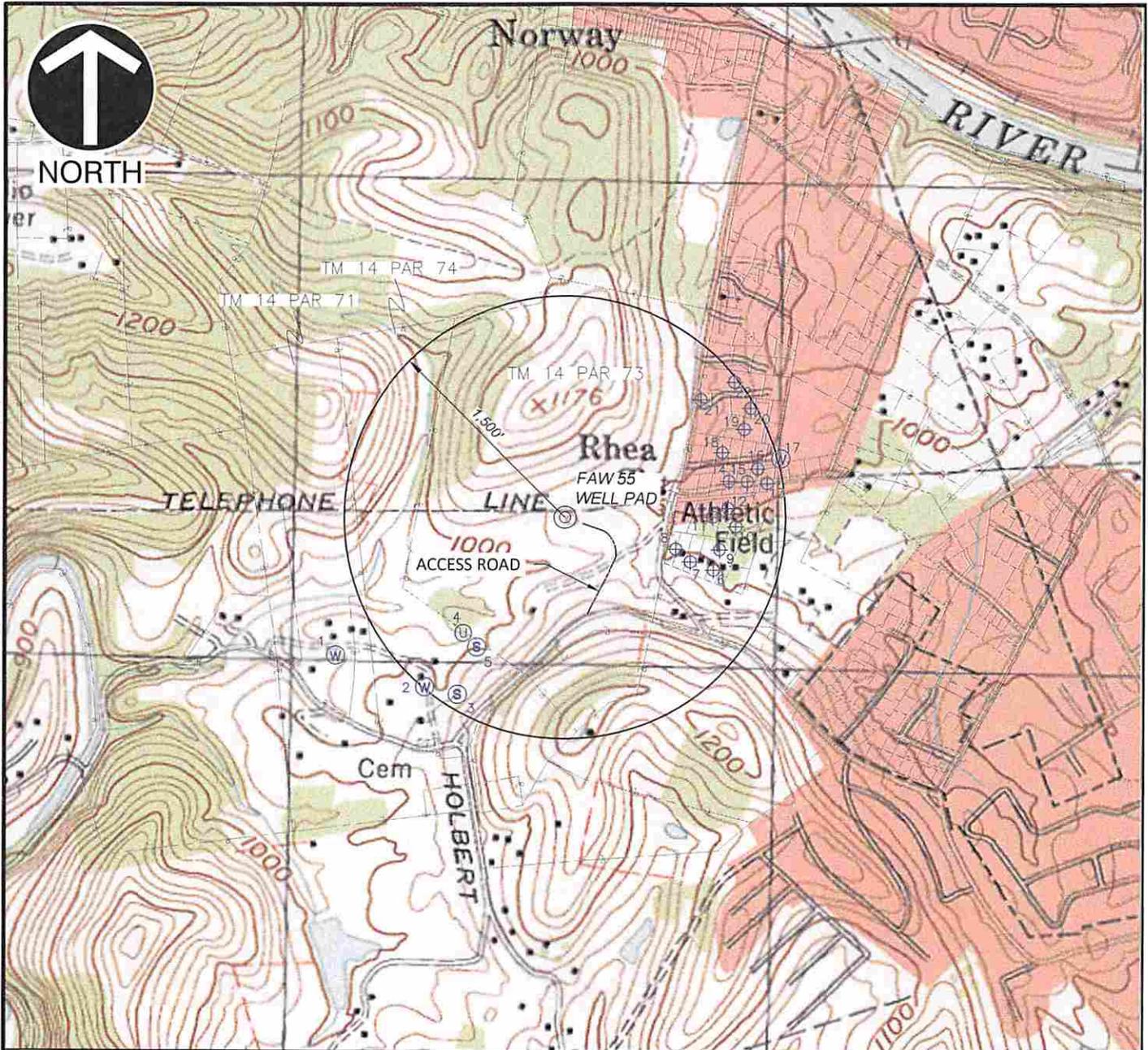
Site Number: \_\_\_\_\_ Distance from Gas Well (ft): \_\_\_\_\_  
Surface Owner/Occupant: \_\_\_\_\_  
Address: \_\_\_\_\_ Phone #: \_\_\_\_\_  
Field Located Date: \_\_\_\_\_ Owner home during survey (yes/no): \_\_\_\_\_  
Coordinates: \_\_\_\_\_ (decimal degrees - NAD 83)  
Contact Attempts (Date):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

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WV Department of  
Environmental Protection

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



NORTH

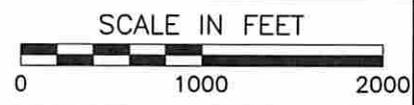


P:\2014\142-405\Survey\Draw Well Plats\142405-WELL\_PLAT-FAW55-H1-WATER\_TOPO.dwg[H1 WATER TOPO] LS:(2/23/2015 -- hmalutich) -- LP: 2/25/2015 4:59 PM

WELL PAD		1500' BUFFER		WATER WELL		CISTERN	
ACCESS ROAD TO WELL		PARCEL BOUNDARY		SPRING		NO ONE HOME	

**REFERENCE**

1. U.S.G.S. 7.5' TOPOGRAPHIC MAP, FAIRMONT WEST QUADRANGLE, WV, DATED: 1997



**Civil & Environmental Consultants, Inc.**  
 99 Cambridge Place - Bridgeport, WV 26330  
 Ph: 304.933.3119 · Fax: 304.933.3327  
 www.cecinc.com

EQT PRODUCTION COMPANY  
 WV 515709  
 GRANT DISTRICT  
 MARION COUNTY, WV

WATERSHED: BOOTH'S CREEK

DRAWN BY: DAM	CHECKED BY: JMS	APPROVED BY: DEM	FIGURE NO.:
DATE: FEBRUARY 23, 2015	DWG SCALE: 1" = 1000'	PROJECT NO: 142-405	

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF ENTRY FOR PLAT SURVEY

**Notice Time Requirement:** Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry.

**Date of Notice:** 4/28/2014

**Date of Planned Entry:** 5/5/2014

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

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

Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

SURFACE OWNER(S)

Name: Karl S. Shaver, Jr.  
Address: 129 Old Monongah Rd.  
Fairmont, WV 26554

MINERAL OWNER(S)

Name: Karl S. Shaver, Jr.  
Address: 129 Old Monongah Rd.  
Fairmont, WV 26554

COAL OWNER(S) OR LESSEE(S)

Coal Declaration pursuant to §22-6A-10 and §22-6-36 Not of Record

\*Please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia  
County: Marion  
Dist/Map/Par: Grant / Map 14 / Parcels 30, 31, 73  
Quadrangle: Fairmont West  
Watershed: West Fork River

Approx. Latitude & Longitude: 39.46970 / -80.19990  
Approx. Latitude & Longitude: 39.46659 / -80.19501  
Approx. Latitude & Longitude: 39.46519 / -80.19089    39.46079 / -80.19467  
Public Road Access: CR56/3 and CR56/4  
Generally Used Farm Name: Shaver

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

RECEIVED  
Office of Oil and Gas

**Notice is hereby given by:**

Well Operator: EQT Production Company  
Telephone: 304-848-0099  
Facsimile: 304-848-0040  
Email: eqtlandentrynotice@eqt.com

Address: 115 Professional Plaza, Bridgeport, WV 26330  
EQT Representative: Kathy Kugel  
Signature: Kathy Kugel  
MAR 11 2015  
WV Department of Environmental Protection

**Oil and Gas Privacy Notice:**

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

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WW-6A5  
(1/12)

Operator Well No. 515712

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

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

**Date of Notice:** \_\_\_\_\_ **Date Permit Application Filed:** \_\_\_\_\_

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

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

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

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

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

Name: Karl S. Shaver Jr.  
Address: POA for Larry A. Shaver  
129 Old Monongah Road

Name: \_\_\_\_\_ 0  
Address: \_\_\_\_\_ 0  
\_\_\_\_\_ 0

**Notice is hereby given:**

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

State: WV UTM NAD 83 Easting: 569,573.450000  
County: Marion Northing: 4,368,305.060000  
District: Grant Public Road Access: CR 56  
Quadrangle: Fairmont West 7.5' Generally used farm name: Shaver  
Watershed: Booths Creek

**This Notice Shall Include:**

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

**RECEIVED**  
**Office of Oil and Gas**  
**MAR 11 2015**

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

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

**WV Department of  
Environmental Protection**

**Oil and Gas Privacy Notice:**

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



4704902386

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

February 23, 2015

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

Subject: DOH Permit for the FAW 55 Pad Site, Marion County

515709 FAW 55 H1	515710 FAW 55 H2	515711 FAW 55 H3
515712 FAW 55 H4 ✓	515713 FAW 55 H5	515714 FAW 55 H6
515715 FAW 55 H7	515716 FAW 55 H8	515717 FAW 55 H9
515718 FAW 55 H10		

Dear Mr. Martin,

This well site will be accessed from Permit #04-2014-1380 applied for by EQT Production Company for access to the State Road. The well site is located off of Marion County Route 56 SLS. The approved DOH permit must be received before construction of or any use of this access to the roadway.

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

Very Truly Yours,

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

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

4704902386

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

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

RECEIVED  
Office of Oil and Gas

MAR 11 2015

WV Department of  
Environmental Protection



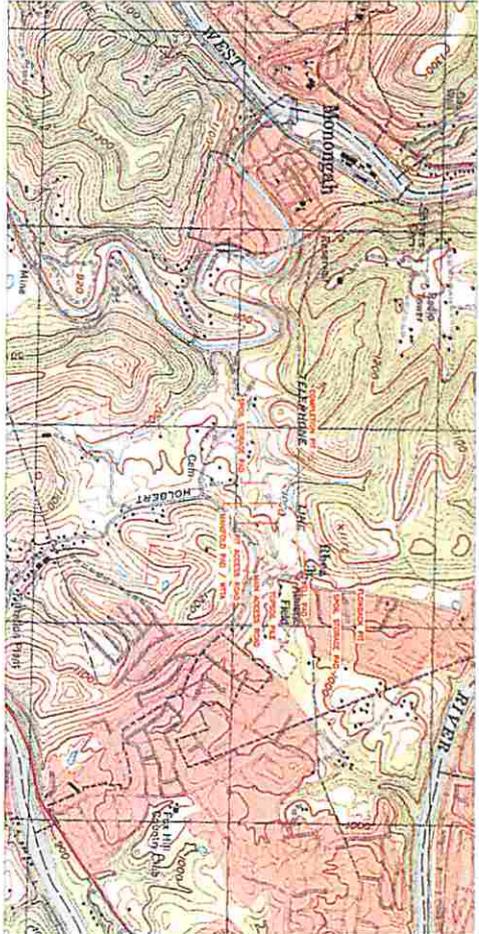
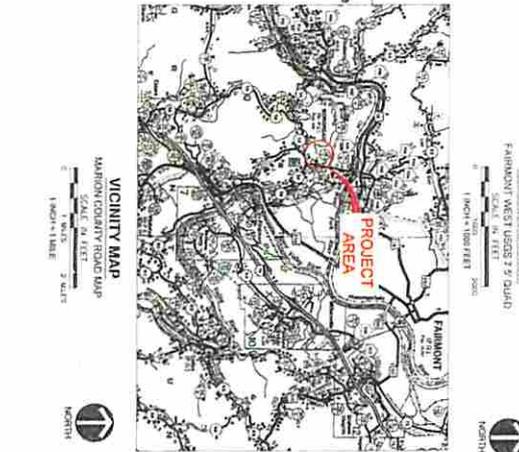
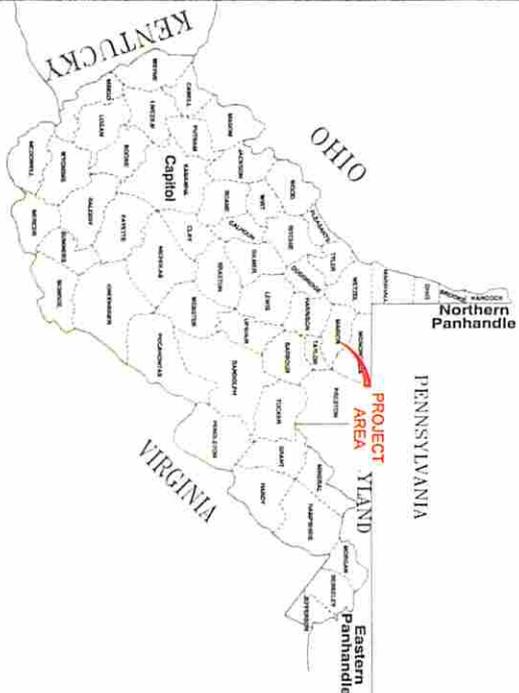




WEST VIRGINIA  
 WEST VIRGINIA  
 1-800-245-4848  
 1000 10th Street, West Virginia  
 Charleston, WV 25301  
 ITS THE LAW

PROJECT OWNER: WEST VIRGINIA  
 PROJECT MANAGER: WEST VIRGINIA  
 PROJECT ENGINEER: WEST VIRGINIA  
 PROJECT ARCHITECT: WEST VIRGINIA  
 PROJECT CONTRACTOR: WEST VIRGINIA

NO.	DATE	DESCRIPTION
1	11/15/11	ISSUED FOR PERMITTING
2	01/10/12	REVISED PER COMMENTS
3	03/20/12	REVISED PER COMMENTS
4	05/15/12	REVISED PER COMMENTS
5	07/10/12	REVISED PER COMMENTS
6	09/05/12	REVISED PER COMMENTS
7	11/01/12	REVISED PER COMMENTS
8	01/05/13	REVISED PER COMMENTS
9	03/05/13	REVISED PER COMMENTS
10	05/05/13	REVISED PER COMMENTS
11	07/05/13	REVISED PER COMMENTS
12	09/05/13	REVISED PER COMMENTS
13	11/05/13	REVISED PER COMMENTS
14	01/05/14	REVISED PER COMMENTS
15	03/05/14	REVISED PER COMMENTS
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26	01/05/16	REVISED PER COMMENTS
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77	07/05/24	REVISED PER COMMENTS
78	09/05/24	REVISED PER COMMENTS
79	11/05/24	REVISED PER COMMENTS
80	01/05/25	REVISED PER COMMENTS
81	03/05/25	REVISED PER COMMENTS
82	05/05/25	REVISED PER COMMENTS
83	07/05/25	REVISED PER COMMENTS
84	09/05/25	REVISED PER COMMENTS
85	11/05/25	REVISED PER COMMENTS
86	01/05/26	REVISED PER COMMENTS
87	03/05/26	REVISED PER COMMENTS
88	05/05/26	REVISED PER COMMENTS
89	07/05/26	REVISED PER COMMENTS
90	09/05/26	REVISED PER COMMENTS
91	11/05/26	REVISED PER COMMENTS
92	01/05/27	REVISED PER COMMENTS
93	03/05/27	REVISED PER COMMENTS
94	05/05/27	REVISED PER COMMENTS
95	07/05/27	REVISED PER COMMENTS
96	09/05/27	REVISED PER COMMENTS
97	11/05/27	REVISED PER COMMENTS
98	01/05/28	REVISED PER COMMENTS
99	03/05/28	REVISED PER COMMENTS
100	05/05/28	REVISED PER COMMENTS



**FAW 55**  
**FINAL SITE DESIGN, CONSTRUCTION PLANS, &**  
**EROSION & SEDIMENT CONTROL PLANS**  
**EQT PRODUCTION COMPANY**  
 LAT / LONG: N 39° 27' 40.14" W 80° 11' 31.80"  
 (APPROXIMATE CENTER OF PROJECT)

**LOCATION MAP**  
 SCALE: 1" = 100 FEET  
 NORTH

**WELL LOGS**

NO.	DATE	DEPTH (FEET)	DIAMETER (INCHES)	CONCRETE (FEET)	SCREEN (FEET)	SCREEN TYPE	SCREEN SIZE	SCREEN MATERIAL	SCREEN SPACING	SCREEN LENGTH	SCREEN WIDTH	SCREEN AREA	SCREEN PERCENTAGE	SCREEN EFFICIENCY	SCREEN COST	SCREEN NOTES
1	11/15/11	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
2	01/10/12	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
3	03/20/12	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
4	05/15/12	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
5	07/10/12	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
6	09/05/12	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
7	11/01/12	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
8	01/05/13	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
9	03/05/13	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
10	05/05/13	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
11	07/05/13	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
12	09/05/13	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
13	11/05/13	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
14	01/05/14	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
15	03/05/14	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
16	05/05/14	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
17	07/05/14	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
18	09/05/14	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
19	11/05/14	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
20	01/05/15	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
21	03/05/15	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
22	05/05/15	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
23	07/05/15	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
24	09/05/15	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
25	11/05/15	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
26	01/05/16	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
27	03/05/16	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
28	05/05/16	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
29	07/05/16	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
30	09/05/16	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
31	11/05/16	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
32	01/05/17	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
33	03/05/17	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
34	05/05/17	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
35	07/05/17	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
36	09/05/17	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
37	11/05/17	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
38	01/05/18	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
39	03/05/18	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
40	05/05/18	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
41	07/05/18	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
42	09/05/18	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
43	11/05/18	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
44	01/05/19	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
45	03/05/19	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
46	05/05/19	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
47	07/05/19	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
48	09/05/19	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1,200	INSTALLER: [Name]	
49	11/05/19	10	12	0	8	WIRE MESH	1/2"	304 SS	12"	12"	144	100%	100%	\$1		