

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

August 25, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-4902385, 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: 515711

Farm Name: SHAVER, KARL S. JR.

API Well Number: 47-4902385

Permit Type: Horizontal 6A Well

Date Issued: 08/25/2015

API Number: 49-02385

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

- 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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Office of Oil and Gas 601 57th 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;
- 1. 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

Sy. Jan Ja Jan Jan G

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 57TH 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 57th 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 INTRODUCTON

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

Mr. James Martin Project 142-405 Page 2 March 24, 2015

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.

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, if you have any questions or require additional information.

Respectfully submitted,

CIVIL AND ENVIRONMENTAL CONSULTANTS, INC

Jacquiyn Kester

Project Manager

Joseph D. Robinson, P.E.

er Project Manager

Enclosures

cc: Ms

Ms. Lacoa Corder, EQT Production Company

ATTACHMENT A WETLAND WAIVER REQUEST

11/3/14		API Number:	Not yet assigned
Wetland and Po	erennial Stream Waiver Request	Operator's Well Number:	306686
	EQT Production Company		
Well Operator:	Ext 1 Toddellott Company		
Well Number:	515709, 515710, 615711, 515712, 515713, 515714, 515716, 515718, 515717, 515718	Well Pad Name: FAW 55 Well Pa	d
County, District	t, Quadrangle of Well Location: Marion C	County, Grant District, Fairmont V	

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.

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.

API Number: Not yet assigned

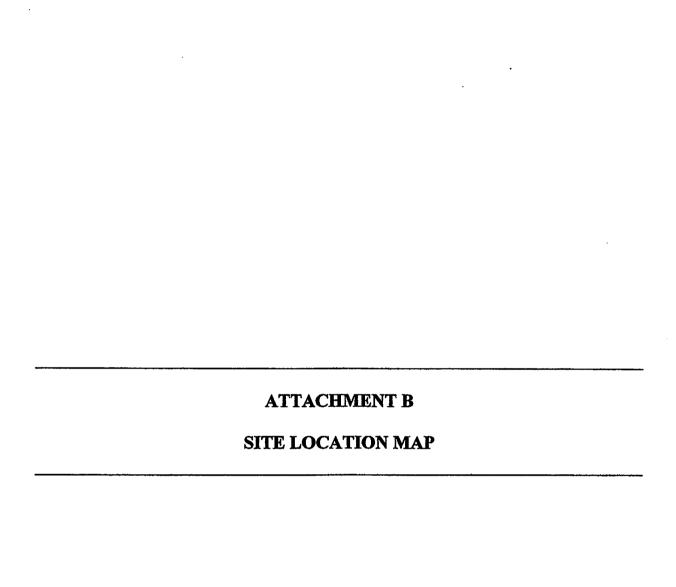
Operator's Well Number: 306686

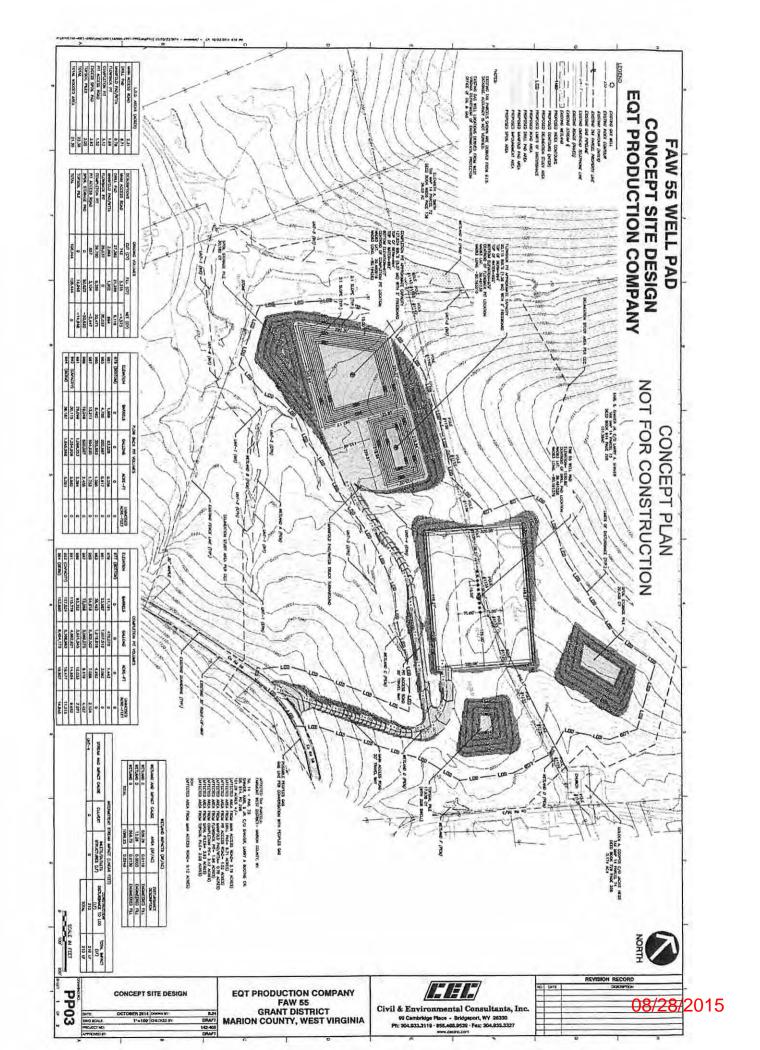
3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

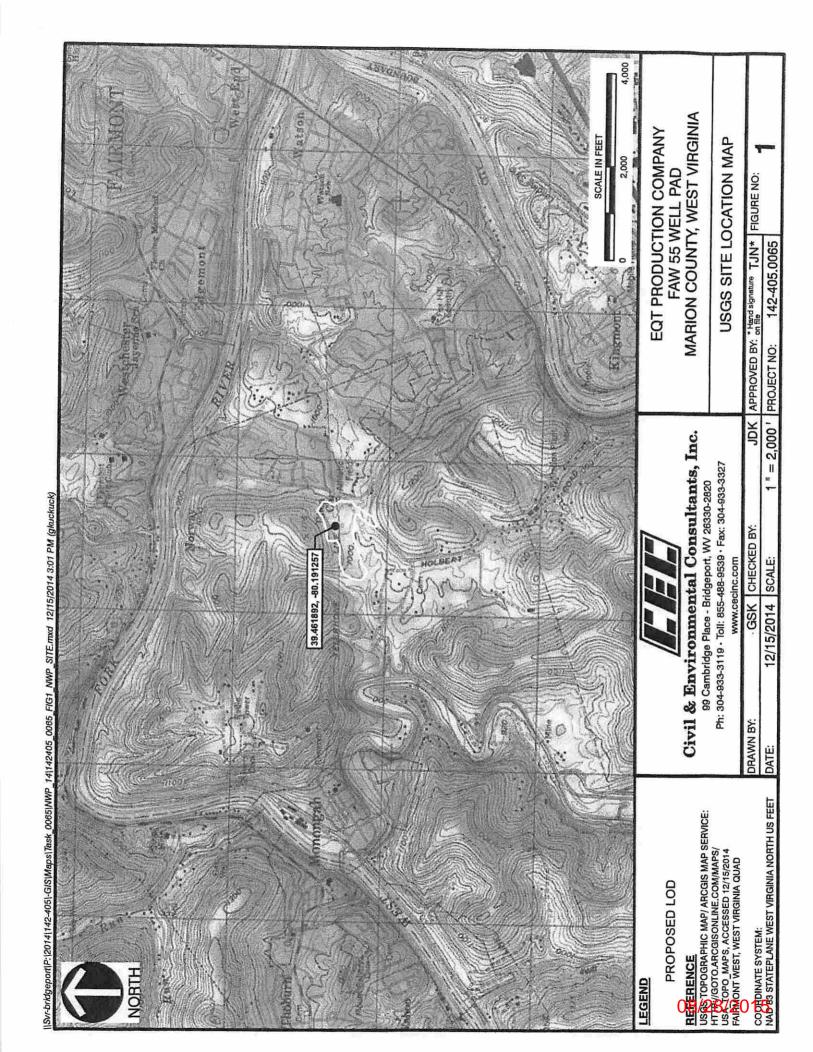
Please refer to Section 2.0. Question 3 of the letter.

- 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.

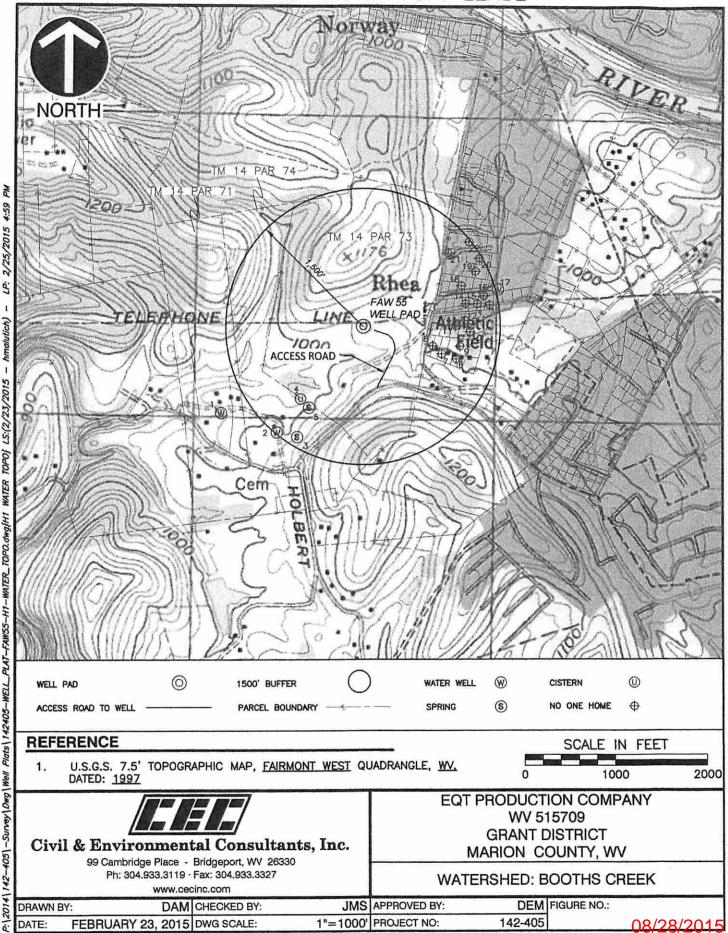


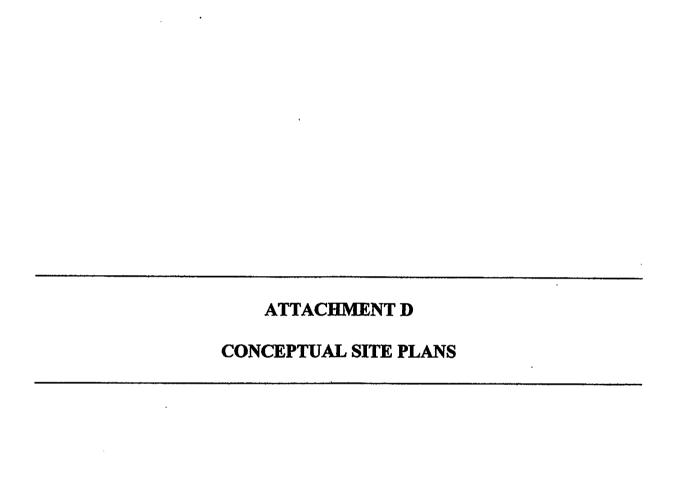


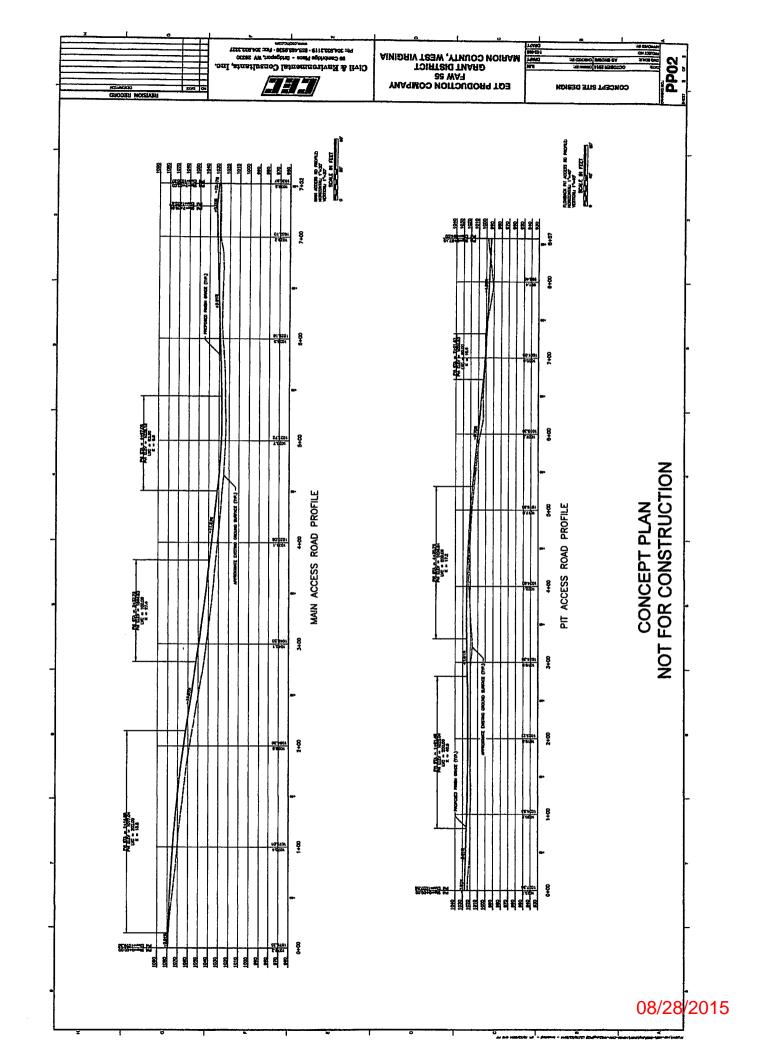


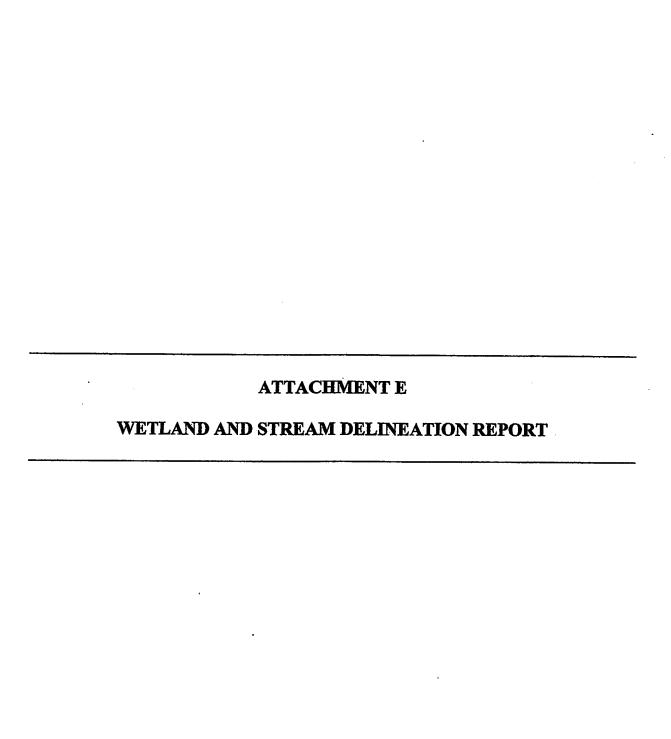
ATTACHMENT C WATER TOPO MAP

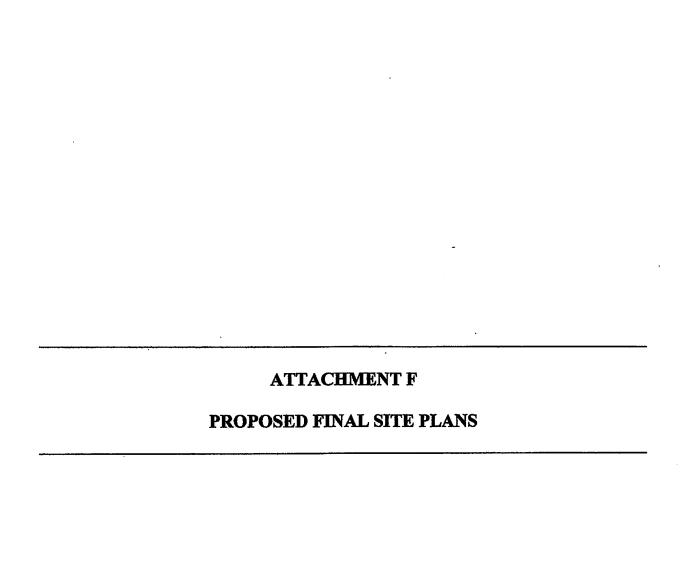
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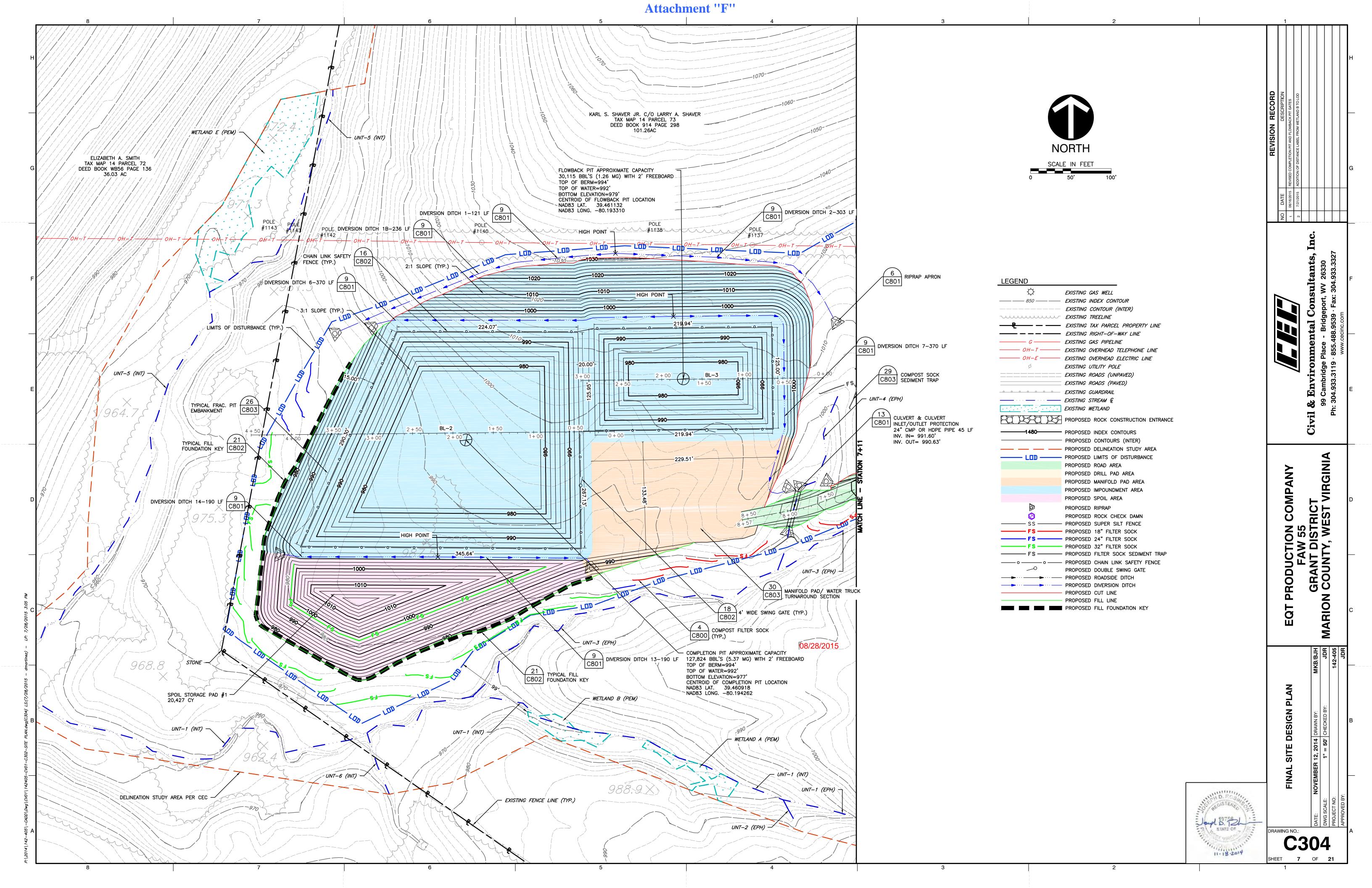












(9/13)

4704902385

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Produc	tion Company		306686	049	1 0	
			Operator ID	County	District 2	343 Quadrangle
2) Operator's Well Number:		E1E711				
				_Well Pad Nam	e:	FAW55
3) Farm Name/Surface Owner:		Shaver		_ Public Road A	ccess:	CR 56
4) Elevation, current ground:	1,039.0	Elevat	ion, proposed p	ost-construction:	1,031	.0
5) Well Type: (a) Gas	Oil					
Other						
(b) If Gas:	Shallow		Deep			
	Horizontal					
6) Existing Pad? Yes or No:	No					
Proposed Target Formation(s),	Depth(s), Antic	cipated Thickne	sses and Asso	ciated Pressure/	el·	
Target formation is Marcellus at	a depth of	with the anticipa	ted thickness to be	167 feet and antic	inated target were	
				to the state of th	parco target press	sure of 2593 PSI
8) Proposed Total Vertical Depth:				7255		
Formation at Total Vertical Dept	th:			Marcellus		
Proposed Total Measured Dep	oth:			12298		
11) Proposed Horizontal Leg Leng	_			4,083		
Approximate Fresh Water Stra				122, 164, &	197	
Method to Determine Fresh W				By offset we	lls	
14) Approximate Saltwater Depths			10	014 & 1088		
Approximate Coal Seam Depth	ns:		69, 192* (*Se	ee #16), 524, 88	9, & 1029	
16) Approximate Depth to Possible			:			92' - Pittsburg Seam
17)Does proposed well location adjacent to an active mine?	contain coal	seams directly of	overlying or			
(a) If Yes, provide Mine Info:	Name:					
3.00-14 (3.00 (Depth:					
	Seam:					
	Owner:					
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			100 H		
				WR H	1	
				2.20	1-12	Dono 1 of 0

Received
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Office of Oil & Gas
MAR 2 4 2015

CASING AND TUBING PROGRAM

18)

TYPE	Size	New	Grade	Weight per	FOOTAGE:	INTERVALS:	CEMENT:
		<u>or</u> <u>Used</u>		<u>ft.</u>	for Drilling	Left in Well	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	12,298	12,298	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set
Liners							100' less than TD

USCH 3-20-15

TYPE	Size	Wellbore	Wall	Drivet		3-20-15
		<u>Diameter</u>	Thickness	Burst	Cement	Cement Yield
		<u>=-,a.motor</u>	THICKNESS	<u>Pressure</u>	<u>Type</u>	(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	<u> </u>	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)

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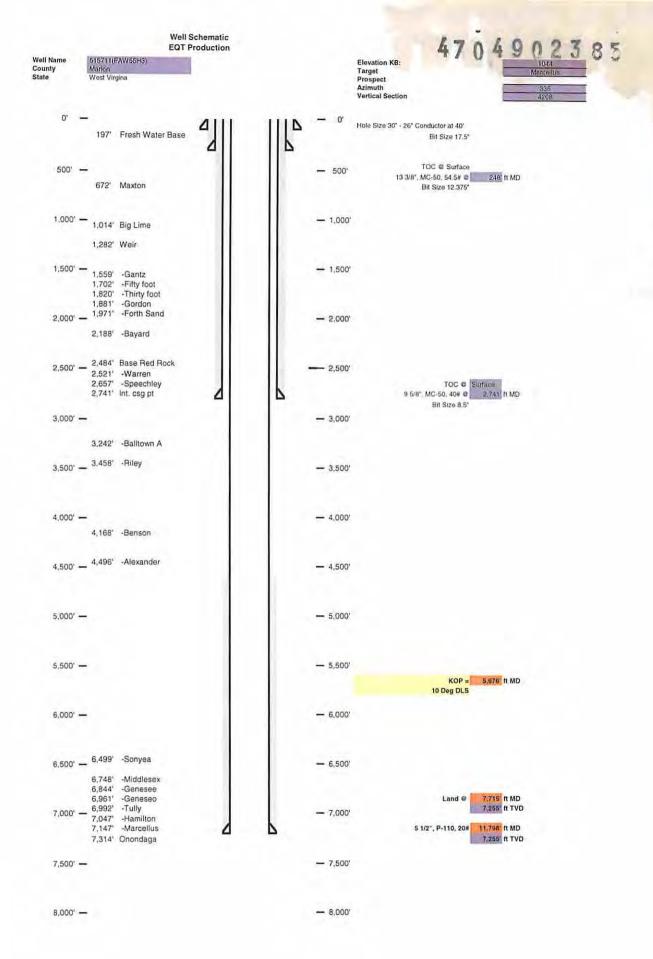
Received case
Office of Cil 2 2015
MAR 24 2015

NAMA CD	API NO. <u>47</u> - <u>49</u> -	
WW - 6B (10/14)	OPERATOR WELL NO.	51571
	Well Pad Name:	FAW5
19) Describe proposed well work, including the drilling and plugging back of any pilot	thole:	
Drill and complete a new horizontal well in the Mircellus 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 cemenling the coal protection casing string to surface.		
The second of th	euro and max rate:	
20) Describe fracturing/stimulating methods in detail, including anticipated max pres	fractured walls and obtained from	
Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals		
getting agent, get breaker, friction reducer, blocke, and scale unlibility, felret to the same anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipated approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barre	ilicating rates are supported to	
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.		
Vary from 100 mean to 20.45 mean vary		
21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres):	± 22.28	
	± 6.71	
22) Area to be disturbed for well pad only, less access road (acres):	20	
 23) Describe centralizer placement for each casing string. Surface: Bow spring centralizers – One at the shoe and one spaced every 500'. 		
a Intermediate: Row spring centralizers - One cent at the shoe and one spaced eve	ry 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	
	All-faces	
	to a thier zone.	
0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the certain dark Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole dri		
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 % Calcuim 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 (Appro	eximately 30-45 minutes) rotating & reciproc	ating
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 in	dicates 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.	auge holes bottoms up volume.	
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a g	augumones de cultimes coming across	

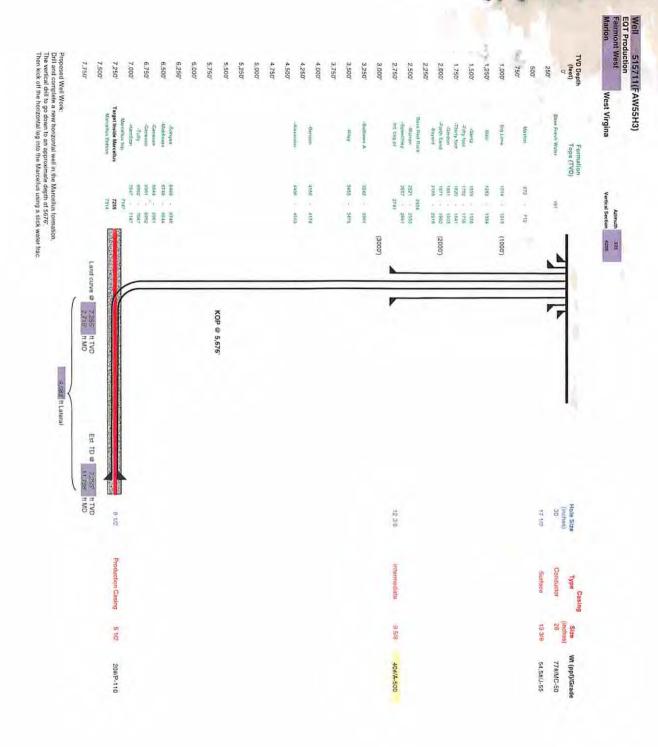
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across

the shakers every 15 minutes.

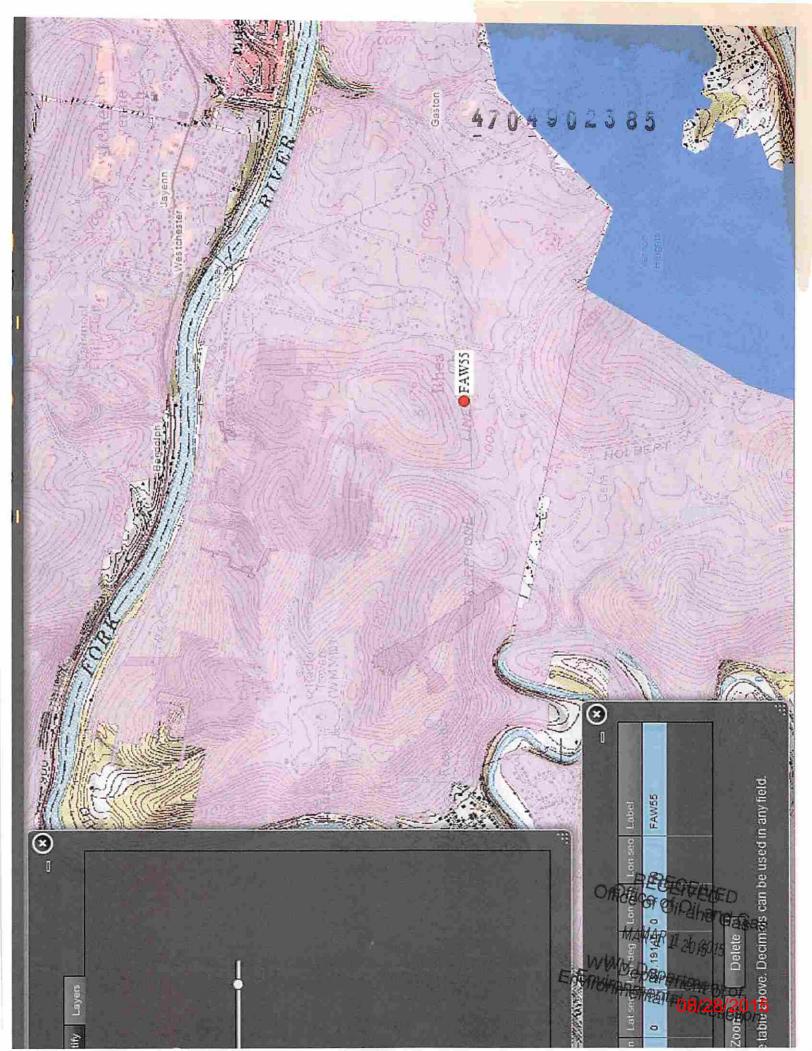
^{*}Note: Attach additional sheets as needed.



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west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 (304) 926-0450 (304) 928-0452 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.

yourse ~

Environmental Resources Specialist / Permitting

Promoting a healthy environment.



west virginia department of environmental protection

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

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

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

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CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chref Office of Oil and Gas

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WV Department of 2015

Environmental Protection

API No. 47 Page 41 7	0 4 9200	 3	C
Operator's Well No.	515711		

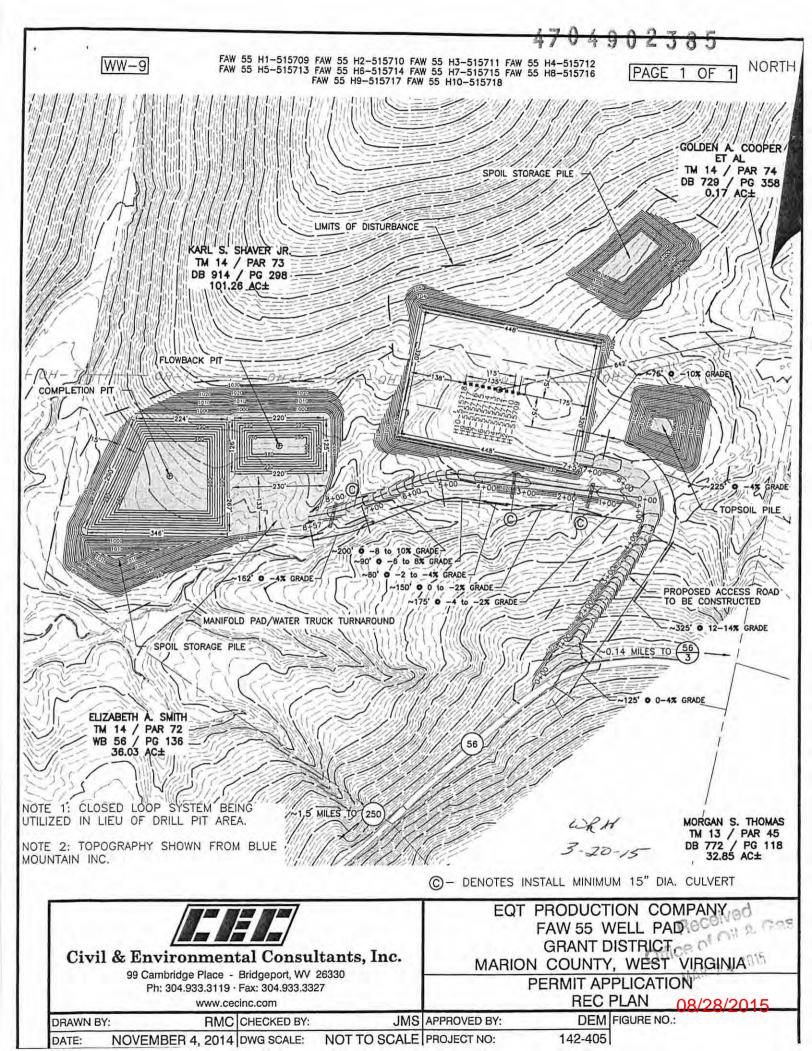
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name	EQT	Production Compar	ny	OP Code	306686	
Watershed (HUC10)		Booths Creek	Qua	drangle	Fairmont West 7.5	
Elevation	1031.0	County	Marion	District		
Do you anticipate using	more than 5	,000 bbls of water t	o complete the	proposed well	work? Yes x	No
Will a pit be used ? Yes					3007150 10 10 10 10 10 10 10 10 10 10 10 10 10	
If so please desc	cribe anticipate	ed pit waste:	flow	back water &	residual solids	
Will a synthetic I			X No		14 19 19 19 19 19 19 19 19 19 19 19 19 19	60
Proposed Disp	osal Method	For Treated Pit Wa	astes.		salitable in	
		Application	aotoo.			
•		ground Injection	(UIC Permit N	the state of the s	0014, 8462, 4037)
		(at API Number_	and form MANALO	Various		
	9000	e Disposal (Sur (Explain	oply form WW-9	ior disposal ic	cation)	N.
Will aloned lone aveter				190 .00	and the second	
Will closed loop system fluid. The drill cuttings are		Yes, The closed loo			s from the drilling	
Drilling medium anticip	ated for this	well? Air, freshwat	er, oil based, etc	Air is used to drill	the top-hole sections of the well	bore,
				Surface, Interme	diate, and Pilot hole sections, wa	ter based
DA NI Karana			. make	mud is used to d	rill the curve and lateral.	
		ynthetic, petroleum				
Additives to be used in a		The second of the second of the second			ride Salts,Rate Filtration (Control,
Deflocculant, Lubricant, Dete						
generally used when drilling o viscosifer, alkalinity control, lir			CANTAL TO A SECURITION OF THE			-
x-cide, SOLTEX terra	ne, chionice sai	is, rate initiation control,	denocediant, labile	ant, detergent, de	stoarning, wanter stiell,	
Drill cuttings disposal n	nethod? Lea	ve in pit, landfill, rei	moved offsite, et	tc.	Landfill	
		what medium will be us			n/a	
- Landfill or offs	site name/perr	mit number?		See Attached	d List	
I certify that I understar	nd and agree to	the terms and condition	ns of the GENERAL	WATER POLLUT	TION PERMIT issued	
on August 1, 2005, by the Offi	ce of Oil and G	as of the West Virginia	Department of Envir	onmental Protect	ion. I understand that the	
provisions of the permit are er	The second secon	w. Violations of any terr	n or condition of the	general permit a	nd/or other applicable lav	V.
or regulation can lead to enfor I certify under penalty of		a paragrally avamined	and am familiar with	the information o	ubmitted on this	
application form and all attach		집에 가는 하다 가게 하는 것이 없어요. 이렇게 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다				na .
the information, I believe that						•
submitting false information, it	ncluding the po-	ssibility of fine or impris	onment.	-1	//	
Company Official Signa	turo		/1/1	1	11	
Company Official Signation Company Official (Types			Victori	a J. Roark	V	
Company Official Title			Permitting Su			D-
				0	Oss:	OF OH OH
	1	9	M	001	-1110	of Oil and Ga
Subscribed and sworn	efore me thi	s	day of///	ARCH	, 20	and Ga
					Notary Public	The state of the s
-	2	- 11	44.2	=11111	minimum VI OF	FICIAL SEAL () ME WEST VIRGINIA FART PURILIC ME HORSE
My commission expires	_	7/27/20	OF E		SWEST TO WISTATE	TAIN PAISLIC
		11			W.Cha	BUMGET OF
				IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Lib	erty, WV 25 07 2008 sion Expires July 2008
				Ē	My Commis	08/28/20
				Ent	HILLIAM TO THE PARTY OF THE PAR	

			Operato	515711	
Proposed Revegetation Treatment: Acres Disturbed		turbed	22.28	22.28 Prevegetation pH	
Lime	3 Tons/a	Tons/acre or to correct to pH		6.5	
Fertilize type		·			
Fertilizer Amoun	ıt <u>1/3</u>	lbs/acre	e (500 lbs minimum)		
Mulch	2		Tons/acre		
		Se	ed Mixtures		
Tem	porary		_	Permanent	
Seed Type KY-31	lbs/acre 40		Seed Type Orchard Grass		lbs/acre 15
Alsike Clover	5		Alsike Clover		5
Annual Rye	15				
Attach: Drawing(s) of road, location Photocopied section of inv			application.		
Plan Approved by:	BM Hali	shot			
_					
					
					<u> </u>
Title: Ewunome	Wal Tws	PEJOI	Date:	0-15	
Field Reviewed? (_)	Yes	() No	

Received
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MAR 24 2015
08/28/2015



EQT Production Water plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

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Environmental Brotellion

08/28/2015



Site Specific Safety Plan

EQT FAW 55 Pad

Fairmont

Marion County, WV

For Wells:

_515709	<u>515711</u>	_515712	515715	
Just J EQT Production	1	Date Pr	epared:	October 24, 2014 Bull Muslish
Date Toddenony	g Siper. 15	11.50r		WV Oil and Gas Inspector ENVIRONESIE INSPECTOR Title S-20-15 Date



Table 1 - Water Source Identification

EQT Well Pad Name: FAW 55	Submittal Date:	3/9/2015		
EQT Well Number: 515709, 515711, 515712, 5				
Survey/Engineering Company:	Civil & Environmental Consultan	its Inc.		
Site Number:1	Distance from Gas Well (ft):_	1823		
Surface Owner/Occupant: Glen G & Ruth A Sha	aver (Life DB 1070-169)			
Address: RR 1 Box 385B, Fairmont, WV 26554		Phone	#:	
Field Located Date: 10/20/14	Owner home during survey (ye	es/no): ye	es	
Coordinates: 39.4589374 , -80.1969046	(decimal degrees - NAD 83)			
Contact Attempts (Date): 1st: 10/20/14 2nd: _	3rd:	Date Door Har	nger Left:	
Comments: par. 71, has water well, wants wel				
			_	
Site Number: 2	Distance from Gas Well (ft):	1494		
Site Number:2 Surface Owner/Occupant: Elizabeth A Smith	Distance from Gas Well (ft):_	1494		
			#:	
Surface Owner/Occupant: Elizabeth A Smith	/ 26554	Phone		
Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV	/ 26554 Owner home during survey (ye	Phone		
Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV Field Located Date: 10/20/14 Coordinates: 39.4583692 , -80.1947539	/ 26554 Owner home during survey (yet) (decimal degrees - NAD 83)	Phone	es	
Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV Field Located Date: 10/20/14 Coordinates: 39.4583692 , -80.1947539 Contact Attempts (Date): 1st: 10/20/14 2nd:	/ 26554 Owner home during survey (yet (decimal degrees - NAD 83) 3rd:	Phone es/no): ye Date Door Har	nger Left:	
Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV Field Located Date: 10/20/14 Coordinates: 39.4583692 , -80.1947539	/ 26554 Owner home during survey (yet (decimal degrees - NAD 83) 3rd:	Phone es/no): ye Date Door Har	nger Left:	
Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV Field Located Date: 10/20/14 Coordinates: 39.4583692 , -80.1947539 Contact Attempts (Date): 1st: 10/20/14 2nd:	/ 26554 Owner home during survey (yet (decimal degrees - NAD 83) 3rd:	Phone es/no): ye Date Door Har	nger Left:	
Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV Field Located Date: 10/20/14 Coordinates: 39.4583692 , -80.1947539 Contact Attempts (Date): 1st: 10/20/14 2nd:	/ 26554 Owner home during survey (yet (decimal degrees - NAD 83) 3rd:	Phone es/no): ye Date Door Har	nger Left:	
Surface Owner/Occupant: Elizabeth A Smith Address: _259 Old Monongah Rd., Fairmont, WV Field Located Date:10/20/14 Coordinates: _39.4583692 , -80.1947539 Contact Attempts (Date): 1st: _10/20/14	/ 26554 Owner home during survey (yet (decimal degrees - NAD 83) 3rd: tested	Phone es/no):ye Date Door Har	nger Left:	
Surface Owner/Occupant: Elizabeth A Smith Address: _259 Old Monongah Rd., Fairmont, WV Field Located Date:10/20/14 Coordinates: _39.4583692 , -80.1947539 Contact Attempts (Date): 1st: _10/20/14	Owner home during survey (yet) (decimal degrees - NAD 83) 3rd: tested Distance from Gas Well (ft):	Phone es/no):ye Date Door Har	nger Left: _	
Surface Owner/Occupant: Elizabeth A Smith Address: _259 Old Monongah Rd., Fairmont, WV Field Located Date:10/20/14 Coordinates: _39.4583692 , -80.1947539 Contact Attempts (Date): 1st: _10/20/14	Owner home during survey (yet) (decimal degrees - NAD 83) 3rd: tested Distance from Gas Well (ft): 26554 Owner home during survey (yet)	Phone es/no): ye Date Door Har 1406 Phone es/no): ye	es	
Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV Field Located Date: 10/20/14 Coordinates: 39.4583692 , -80.1947539 Contact Attempts (Date): 1st: 10/20/14 2nd: Comments: par. 72, has water well, wants well Site Number: 3 Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV	Owner home during survey (yet) (decimal degrees - NAD 83) 3rd: tested Distance from Gas Well (ft): 26554 Owner home during survey (yet)	Phone es/no): ye Date Door Har 1406 Phone es/no): ye	es	
Surface Owner/Occupant: Elizabeth A Smith Address: _259 Old Monongah Rd., Fairmont, WV Field Located Date:	Owner home during survey (yet) (decimal degrees - NAD 83) 3rd: tested Distance from Gas Well (ft): 26554 Owner home during survey (yet)	Phone es/no): Date Door Har 1406 Phone es/no):ye	#:es	ENED G
Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV Field Located Date: 10/20/14 Coordinates: 39.4583692 , -80.1947539 Contact Attempts (Date): 1st: 10/20/14 2nd: Comments: par. 72, has water well, wants well Site Number: 3 Surface Owner/Occupant: Elizabeth A Smith Address: 259 Old Monongah Rd., Fairmont, WV Field Located Date: 10/20/14	Owner home during survey (yet) (decimal degrees - NAD 83) 3rd: tested Distance from Gas Well (ft): 26554 Owner home during survey (yet)	Phone es/no): Date Door Har 1406 Phone es/no):ye	#:es	

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	
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	s cistern tested
Site Number: 5 Surface Owner/Occupant: Elizabeth A Smith	Distance from Gas Well (ft): 1038
	26554 Phone #:
Field Located Date: 10/20/14	
Coordinates: 39.459246 , -80.1935836	
	3rd: Date Door Hanger Left:
Comments: par. 72, property has spring, wants	
Site Number: 6 Surface Owner/Occupant: Emanuel G Billiris	Distance from Gas Well (ft): 1057
Surface Owner/Occupant: Emanuel G Billiris	Distance from Gas Well (ft): 1057 Phone #: 304-290-9099
Surface Owner/Occupant: Emanuel G Billiris	Phone #:
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554	Phone #: 304-290-9099 Owner home during survey (yes/no):
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377	Phone #: 304-290-9099 Owner home during survey (yes/no):
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377	Phone #:304-290-9099 Owner home during survey (yes/no): (decimal degrees - NAD 83) 10/30/14 3rd: Date Door Hanger Left:10/21/14
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377 Contact Attempts (Date): 1st: 10/21/14 2nd:	Phone #:304-290-9099 Owner home during survey (yes/no): (decimal degrees - NAD 83) 10/30/14 3rd: Date Door Hanger Left:10/21/14
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377 Contact Attempts (Date): 1st: 10/21/14 2nd: Comments: par. 59, owner called and said there	Phone #:304-290-9099 Owner home during survey (yes/no):no (decimal degrees - NAD 83) 10/30/14 3rd: Date Door Hanger Left:10/21/14 e is no well on property, uses city water
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377 Contact Attempts (Date): 1st: 10/21/14 2nd: Comments: par. 59, owner called and said there Site Number: 7	Phone #:304-290-9099 Owner home during survey (yes/no): no (decimal degrees - NAD 83) 10/30/14 3rd:
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377 Contact Attempts (Date): 1st: 10/21/14 2nd: Comments: par. 59, owner called and said there Site Number: 7 Surface Owner/Occupant: Jeremy J & Jamie J Edgell	Phone #:304-290-9099 Owner home during survey (yes/no): no (decimal degrees - NAD 83) 10/30/14
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377 Contact Attempts (Date): 1st: 10/21/14 2nd: Comments: par. 59, owner called and said there Site Number: 7 Surface Owner/Occupant: Jeremy J & Jamie J Edgell Address: RR 9 Box 120A, Fairmont, WV 26554	Phone #:304-290-9099 Owner home during survey (yes/no):no (decimal degrees - NAD 83) 10/30/14 3rd: Date Door Hanger Left:10/21/14 e is no well on property, uses city water Distance from Gas Well (ft): 889 (20%) & Pamela Marocco (40%) & C/O Marshal & Stephanie Hughes Phone #:
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377 Contact Attempts (Date): 1st: 10/21/14 2nd: Comments: par. 59, owner called and said there Site Number: 7 Surface Owner/Occupant: Jeremy J & Jamie J Edgell Address: RR 9 Box 120A, Fairmont, WV 26554 Field Located Date: 10/22/14	Phone #:304-290-9099 Owner home during survey (yes/no): no (decimal degrees - NAD 83) 10/30/14
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377 Contact Attempts (Date): 1st: 10/21/14 2nd: Comments: par. 59, owner called and said there Site Number: 7 Surface Owner/Occupant: Jeremy J & Jamie J Edgell Address: RR 9 Box 120A, Fairmont, WV 26554 Field Located Date: 10/22/14 Coordinates: 39.4607414 , -80.1883966	Phone #:304-290-9099 Owner home during survey (yes/no):no (decimal degrees - NAD 83) 10/30/14 3rd:
Surface Owner/Occupant: Emanuel G Billiris Address: 29 Lois Lane, Fairmont, WV 26554 Field Located Date: 10/21/14 Coordinates: 39.4605887 , -80.1878377 Contact Attempts (Date): 1st: 10/21/14 2nd: Comments: par. 59, owner called and said there Site Number: 7 Surface Owner/Occupant: Jeremy J & Jamie J Edgell Address: RR 9 Box 120A, Fairmont, WV 26554 Field Located Date: 10/22/14	Phone #:304-290-9099 Owner home during survey (yes/no):no (decimal degrees - NAD 83) 10/30/14 3rd:

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	
Address: RR 9 Box 120, Fairmont, WV 26554	Phone #:
Field Located Date: 10/22/14	
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 26	9505 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 26	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; 17-0/22/14 5
Comments: par. 58.1, owner called on 10-28-1	4 and said there is no well on property, uses clinkwater 1 and
	Office 01 1 2015
	4 and said there is no well on property, uses clinkware in and of the said there is no well on property, uses clinkware in and of the said there is no well on property, uses clinkware in and and of the said there is no well on property, uses clinkware in and and and and and and and and and an
nsert additional pages as needed)	Office MAR 1 T 2013 MAR 1 T 2013 MV Department of Protection Environment 28/2015
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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	
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 N	
· · · · · · · · · · · · · · · · · · ·	
	26554 Phone #:
Field Located Date: 10/22/14 Coordinates: 39.4615781 , -80.1878729	
	10/30/14 3rd: Date Door Hanger Left:10/22/14
	Date Door Hangel Lett. 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 2	6554 Phone #:
Field Located Date: 10/22/14	
Coordinates: 39.4617438 , -80.1874946	
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 2	6554 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 Part:
Comments: par. 49, uses city water	Office 0. 12 2015
	(decimal degrees - NAD 83) 10/30/14 3rd: Date Door Hanger Ref. CEVED Gas Office of 1/20/5 WV Department of 1/20/5 Environ 08/28/2015
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nsert additional pages as needed)	70 00 00 16 16 16 16 16 16 16 16 16 16 16 16 16
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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	
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 2	
Field Located Date: 10/22/14	
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 Cae Mall (fil) 4242
	Distance from Gas Well (ft): 1343
Surface Owner/Occupant: Dolores Calkusic	CSS4 Dhone #
Address: 45 Norway Loop Rd., Fairmont, WV 2	
Field Located Date: 10/22/14	Owner home during survey (yes/no):no
Coordinates: 39.4624888 , -80.1867868	(decimal degrees - NAD 83) BECEIVER GRAND
Contact Attempts (Date): 1st: 10/22/14 2nd:	Date Door Hanger Left: of 10/22/14
Comments: par. 48, uses city water	MAR 1 120"
	-artine

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Site Number:17	Distance from Gas Well (ft): 1528 47 0 4 9 0 2 3 8 5
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	
Contact Attempts (Date): 1st: 10/22/14 2nd:	
	recently moved, possible well across from TM 13A P 34 is on this
property, no contact has been made with new ow	vner, possible well has been shot in
Site Number:18	Distance from Gas Well (ft): 1149
Surface Owner/Occupant: Gerald B III & Jan L	
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	
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
	
0	
Site Number: 18	Distance from Gas Well (ft): 1149
Surface Owner/Occupant: Gerald B III & Jan L	
Address: 19 Quint Dr., Fairmont, WV 26554	
Field Located Date: 10/22/14	Owner home during survey (yes/no):no
Coordinates: 39.4627865 , -80.1876489	
Contact Attempts (Date): 1st: 10/22/14 2nd:	
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	· · ·
Address: 54 Granite Dr., Fairmont, WV 26554	
Field Located Date: 10/22/14	Owner home during survey (yes/no): no
Constitution 20 4620400 00 4074470	
Contest Atlanta (Deta): 4st: 40/00/44 Oct.	10/30/14 3rd: Date Door Hanger Left EVER GAS
Commenter Des 20 mars street de 20 mars street d	Date Door Hanger Left Contraction
Comments: par. 26, uses city water	Office 2 17 50/2
	(decimal degrees - NAD 83) 10/30/14 3rd: Date Door Hanger Left EGE Land Gas Office of Office o
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Distance from Gas Well (ft): 1352
Jones
Phone #:
Owner home during survey (yes/no):no
(decimal degrees - NAD 83)
10/30/14 3rd: Date Door Hanger Left: 10/22/14
Distance from Gas Well (ft): 1352
Jones
Phone #:
Owner home during survey (yes/no):no
(decimal degrees - NAD 83)
10/30/14 3rd: Date Door Hanger Left:10/22/14
Distance from Gas Well (ft): 1456
M Sloan
Phone #:
Owner home during survey (yes/no):no
(decimal degrees - NAD 83)
10/30/14 3rd: Date Door Hanger Left:

Dietongo from Coo Well (ft). 1216
Distance from Gas Well (ft): 1216
Sloan
Sloan Phone #:
Sloan 26554 Phone #: Owner home during survey (yes/no):
Sloan 26554 Phone #: Owner home during survey (yes/no):
Sloan 26554 Phone #: Owner home during survey (yes/no):
Sloan 26554 Phone #: Owner home during survey (yes/no): no (decimal degrees - NAD 83) 3rd: Date Door Hanger Level Colland Gas
Sloan 26554 Phone #: Owner home during survey (yes/no): no (decimal degrees - NAD 83) 3rd: Date Door Hanger Level Colland Gas
Sloan 26554 Phone #: Owner home during survey (yes/no): no (decimal degrees - NAD 83) 3rd: Date Door Hanger Level Colland Gas
Sloan 26554 Phone #: Owner home during survey (yes/no):

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	
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	
	Phone #:
Field Located Date: 10/22/14	
Coordinates:	
· 	
Comments: par. 32, uses city water	Sate See Hanger Leit. 10/22/14
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. 33, uses city water	
Site Number:	Distance from Gas Well (ft):
Surface Owner/Occupant: Rose A Flanagan	2.514.1.52
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: \\ \times \) \(\times \) \(\times \)
Comments: par. 34, owner called in on 10-31-14 ar	nd said she has a well and spring, a follow-up call was frage 21/3/15 and
the "spring" is actually a wet weather seap and the poss	sible well is not on her property but across the street week city water
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Site Number:	Distance from Gas Well (ft):_		
Surface Owner/Occupant: Co. Commission of M	arion Co.		
Address: 200 Jackson St., Fairmont, WV 26554		Phone #:	
Field Located Date: 10/24/14	Owner home during survey (ye	es/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			
Address: 19 Norway Loop Rd., Fairmont, WV 26			
Field Located Date: 10/22/14		es/no): <u>yes</u>	
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		·····	
Address: 19 Norway Loop Rd., Fairmont, WV 26			
	Owner home during survey (ye	es/no): <u>yes</u>	
	(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			
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 (v	es/no): no	
Coordinates:	(decimal degrees - NAD 83)	-11/5	D Gas
Coordinates: , Contact Attempts (Date): 1st: 2nd: Comments:par. 72.1, uses city water	3rd:	Date Door Hangen Left: Oil	and Go
Comments: par 72.1 uses city water		Office of S	2015
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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	
Site Number:	Distance from Gas Well (ft):
Surface Owner/Occupant: George F McElroy	
	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	
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	
Site Number:	Distance from Gas Well (ft):
Surface Owner/Occupant: Karl S Shaver Jr.	
Address: 129 Old Monongah Rd., Fairmont, W\	/ 26554 Phone #:
Field Located Date:	Owner home during survey (yes/no): yes
Contact Attempts (Date): 1st: 2nd:	Office of Oil and One MAR 1 2015
Comments: par. 70, no well, uses city water	RECONDITION OF ONLY
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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:	
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 I	
	Phone #:
Field Located Date:	
Coordinates:	
	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. & Christ	
Address: RR 9 Box 116, Fairmont, WV 26554	
Field Located Date:	Owner home during survey (yes/no): no
Coordinates:	
	3rd: Date Door Hanger Left:
Comments: par. 39.2	
Site Number:	Distance from Gas Well (ft):
Site Number: Surface Owner/Occupant: Roger Grove	Distance from Gas Well (ft):
	Distance from Gas Well (ft): Phone #:
Surface Owner/Occupant: Roger Grove	
Surface Owner/Occupant: Roger Grove Address: RR 9 Box 117, Fairmont, WV 26554 Field Located Date:	Phone #: Owner home during survey (yes/no):yes
Surface Owner/Occupant: Roger Grove Address: RR 9 Box 117, Fairmont, WV 26554 Field Located Date:	Phone #: Owner home during survey (yes/no):yes
Surface Owner/Occupant: Roger Grove Address: RR 9 Box 117, Fairmont, WV 26554 Field Located Date:	Phone #: Owner home during survey (yes/no):yes
Surface Owner/Occupant: Roger Grove Address: RR 9 Box 117, Fairmont, WV 26554 Field Located Date:	Phone #: Owner home during survey (yes/no):yes
Surface Owner/Occupant: Roger Grove Address: RR 9 Box 117, Fairmont, WV 26554 Field Located Date:	Phone #: Owner home during survey (yes/no):yes
Surface Owner/Occupant: Roger Grove Address: RR 9 Box 117, Fairmont, WV 26554 Field Located Date:	Phone #: Owner home during survey (yes/no):yes
Surface Owner/Occupant: Roger Grove Address: RR 9 Box 117, Fairmont, WV 26554 Field Located Date:	Phone #: Owner home during survey (yes/no):yes

Site Number:	Distance from Gas Well (ft):
Surface Owner/Occupant: Roger K Grove & Re	ebecca D Dickens
Address: RR 9 Box 117, Fairmont, WV 26554	Phone #:
	Owner home during survey (yes/no):yes
Coordinates:,	
Contact Attempts (Date): 1st: 2nd:	3rd: Date Door Hanger Left:
Comments: par. 43, no well, uses city water	
Site Number:	Distance from Gas Well (ft):
Surface Owner/Occupant: Michael J & Lisa Dut	
Address: RR 9 Box 121, Fairmont, WV 26554	Phone #:
Field Located Date:	
Coordinates:,	
	3rd: Date Door Hanger Left:
Comments: par. 54, no well, uses city water	
Comments: par. 54, no well, uses city water	
Comments: par. 54, no well, uses city water	Distance from Gas Well (ft):
Comments: par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana	Distance from Gas Well (ft):
Comments: par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana of Address: 120 Norway Rd., Fairmont, WV 26554	Distance from Gas Well (ft):
Comments: par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes
Comments:par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana (Address:120 Norway Rd., Fairmont, WV 26554 Field Located Date: Coordinates:,	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes
Comments:par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana (Address:120 Norway Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd:	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83)
Comments:par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana (Address:120 Norway Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd:	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83)
Comments:par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana (Address:120 Norway Rd., Fairmont, WV 26554 Field Located Date: Coordinates:,	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83)
Comments:par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana (Address:120 Norway Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd: Comments:par. 25, no well, uses city water Site Number:	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left:
Comments:par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana (Address:120 Norway Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd: Comments:par. 25, no well, uses city water Site Number: Surface Owner/Occupant:Thomas H Reese	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left: Distance from Gas Well (ft):
Comments:par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana (Address:120 Norway Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd: Comments:par. 25, no well, uses city water Site Number: Site Number: Surface Owner/Occupant:Thomas H Reese Address:14 Norway Loop Rd., Fairmont, WV 2 Field Located Date:	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left: Distance from Gas Well (ft):
Comments: par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana (Address: 120 Norway Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd: Comments: par. 25, no well, uses city water Site Number: Site Number: Surface Owner/Occupant: Thomas H Reese Address: 14 Norway Loop Rd., Fairmont, WV 26554	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left: Distance from Gas Well (ft):
Comments: par. 54, no well, uses city water Site Number: Surface Owner/Occupant:Henry L Jr. & Diana (Address: 120 Norway Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd: Comments: par. 25, no well, uses city water Site Number: Site Number: Surface Owner/Occupant: Thomas H Reese Address: 14 Norway Loop Rd., Fairmont, WV 26554	Distance from Gas Well (ft): G Sloan Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left: Distance from Gas Well (ft):

Site Number:	Distance from Gas Well (ft):
Surface Owner/Occupant: Michael & Wendy H	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	
Address: 78 Norway Rd., Fairmont, WV 26554	4 Phone #:
Field Located Date:	Owner home during survey (yes/no):no
Coordinates:,	(decimal degrees - NAD 83)
	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	
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	
Site Number:	Distance from Gas Well (ft):
Surface Owner/Occupant: Charles H & Juanita	a 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) 3rd: Date Door Hanger Left: RECEIVED and Confice of Oil and Oil a
Contact Attempts (Date): 1st: 2nd:	3rd: Date Door Hanger Left: RECEIL and C
Comments: par. 40, no well, uses city water	Office of MAR 1 2015
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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 Investme	
Address: 1150 Colfax Rd., Fairmont, WV 26554	Phone #:
Address: 1150 Colfax Rd., Fairmont, WV 26554	Phone #:
Address:1150 Colfax Rd., Fairmont, WV 26554 Field Located Date:	Phone #: Owner home during survey (yes/no):
Address:1150 Colfax Rd., Fairmont, WV 26554 Field Located Date: Coordinates:,	Owner home during survey (yes/no): no (decimal degrees - NAD 83)
Address:1150 Colfax Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd:	Owner home during survey (yes/no): no (decimal degrees - NAD 83)
Address:1150 Colfax Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd:	Owner home during survey (yes/no): no (decimal degrees - NAD 83) 3rd: Date Door Hanger Left:
Address:1150 Colfax Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd:	Owner home during survey (yes/no): no (decimal degrees - NAD 83) 3rd: Date Door Hanger Left:
Address:1150 Colfax Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd: Comments:par. 45.2, apartment complex	Owner home during survey (yes/no): no
Address:1150 Colfax Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd: Comments:par. 45.2, apartment complex Site Number:	Owner home during survey (yes/no): no
Address:150 Colfax Rd., Fairmont, WV 26554 Field Located Date: Coordinates:,	Owner home during survey (yes/no): no
Address:150 Colfax Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd: _ Comments:par. 45.2, apartment complex Site Number: Surface Owner/Occupant:Thomas P Morgan Address:508 Old Monongah Rd., Fairmont, WA	Owner home during survey (yes/no): no
Address:150 Colfax Rd., Fairmont, WV 26554 Field Located Date: Coordinates:, Contact Attempts (Date): 1st: 2nd: _ Comments:par. 45.2, apartment complex Site Number: Surface Owner/Occupant:Thomas P Morgan Address:508 Old Monongah Rd., Fairmont, WV Field Located Date:	Owner home during survey (yes/no): no
Address:	Owner home during survey (yes/no): no (decimal degrees - NAD 83) 3rd: Date Door Hanger Left:

Site Number:	Distance from Gas Well (ft):
Surface Owner/Occupant: Samuel J Cutrone	
Address: 33 Lois Lane, Fairmont, WV 26554	Phone #:
Field Located Date:	
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):
	Distance non Gas Wen (it)
Address: 33 Lois Lane, Fairmont, WV 26554	
	Owner home during survey (yes/no): yes
Coordinates:	•
•	3rd: Date Door Hanger Left:
211U.	
	SDRRA OR ARIGINIA PROPERVITIM 13 - D A11
Comments: par. 61, owner said groundwater	spring on adjoining property (TM 13 - P 41)
	spring on adjoining property (TM 13 - P 41)
Comments: par. 61, owner said groundwater	Distance from Gas Well (ft):
Comments:par. 61, owner said groundwater Site Number:	Distance from Gas Well (ft):
Comments:par. 61, owner said groundwater Site Number: Surface Owner/Occupant:Samuel J Cutrone	Distance from Gas Well (ft):
Comments:par. 61, owner said groundwater Site Number: Surface Owner/Occupant:Samuel J Cutrone Address:33 Lois Lane, Fairmont, WV 26554 Field Located Date:	Distance from Gas Well (ft):Phone #:
Comments:par. 61, owner said groundwater Site Number: Surface Owner/Occupant:Samuel J Cutrone Address:33 Lois Lane, Fairmont, WV 26554	Distance from Gas Well (ft): Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83)
Comments:par. 61, owner said groundwater Site Number: Surface Owner/Occupant:Samuel J Cutrone Address:33 Lois Lane, Fairmont, WV 26554 Field Located Date: Coordinates:,	Distance from Gas Well (ft): Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left:
Site Number: Surface Owner/Occupant: Samuel J Cutrone Address: 33 Lois Lane, Fairmont, WV 26554 Field Located Date: Coordinates: , Contact Attempts (Date): 1st: 2nd:	Distance from Gas Well (ft): Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left:
Site Number: Surface Owner/Occupant: Samuel J Cutrone Address: 33 Lois Lane, Fairmont, WV 26554 Field Located Date: Coordinates: Contact Attempts (Date): 1st: 2nd:	Distance from Gas Well (ft): Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left:
Site Number: Surface Owner/Occupant: Samuel J Cutrone Address: 33 Lois Lane, Fairmont, WV 26554 Field Located Date: Coordinates: , Contact Attempts (Date): 1st: 2nd:	Distance from Gas Well (ft): Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left:
Site Number: Surface Owner/Occupant: Samuel J Cutrone Address: 33 Lois Lane, Fairmont, WV 26554 Field Located Date: Coordinates: Contact Attempts (Date): 1st: 2nd: Comments: par. 62, owner said groundwater	Distance from Gas Well (ft):
Site Number: Surface Owner/Occupant: Samuel J Cutrone Address: 33 Lois Lane, Fairmont, WV 26554 Field Located Date: Coordinates: Contact Attempts (Date): 1st: 2nd: Comments: par. 62, owner said groundwater Site Number: Surface Owner/Occupant: Golden A Cooper Comments: Go	Distance from Gas Well (ft): Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left: spring on adjoining property (TM 13 - P 41) Distance from Gas Well (ft): E/O Jackie Hess
Site Number: Surface Owner/Occupant: Samuel J Cutrone Address: 33 Lois Lane, Fairmont, WV 26554 Field Located Date: Coordinates: Contact Attempts (Date): 1st: 2nd: Comments: par. 62, owner said groundwater Site Number: Surface Owner/Occupant: Golden A Cooper Comments: Go	Distance from Gas Well (ft): Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left: spring on adjoining property (TM 13 - P 41) Distance from Gas Well (ft): E/O Jackie Hess
Site Number: Surface Owner/Occupant: Samuel J Cutrone Address: 33 Lois Lane, Fairmont, WV 26554 Field Located Date: Coordinates: Contact Attempts (Date): 1st: 2nd: Comments: par. 62, owner said groundwater Site Number: Surface Owner/Occupant: Golden A Cooper Comments: Go	Distance from Gas Well (ft): Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left: spring on adjoining property (TM 13 - P 41) Distance from Gas Well (ft): E/O Jackie Hess
Site Number: Surface Owner/Occupant: Samuel J Cutrone Address: 33 Lois Lane, Fairmont, WV 26554 Field Located Date: Coordinates: Contact Attempts (Date): 1st: 2nd: Comments: par. 62, owner said groundwater Site Number: Surface Owner/Occupant: Golden A Cooper Comments: Golden A Cooper Coupant: Golden A Cooper Coup	Distance from Gas Well (ft): Phone #: Owner home during survey (yes/no):yes (decimal degrees - NAD 83) 3rd: Date Door Hanger Left: spring on adjoining property (TM 13 - P 41) Distance from Gas Well (ft):

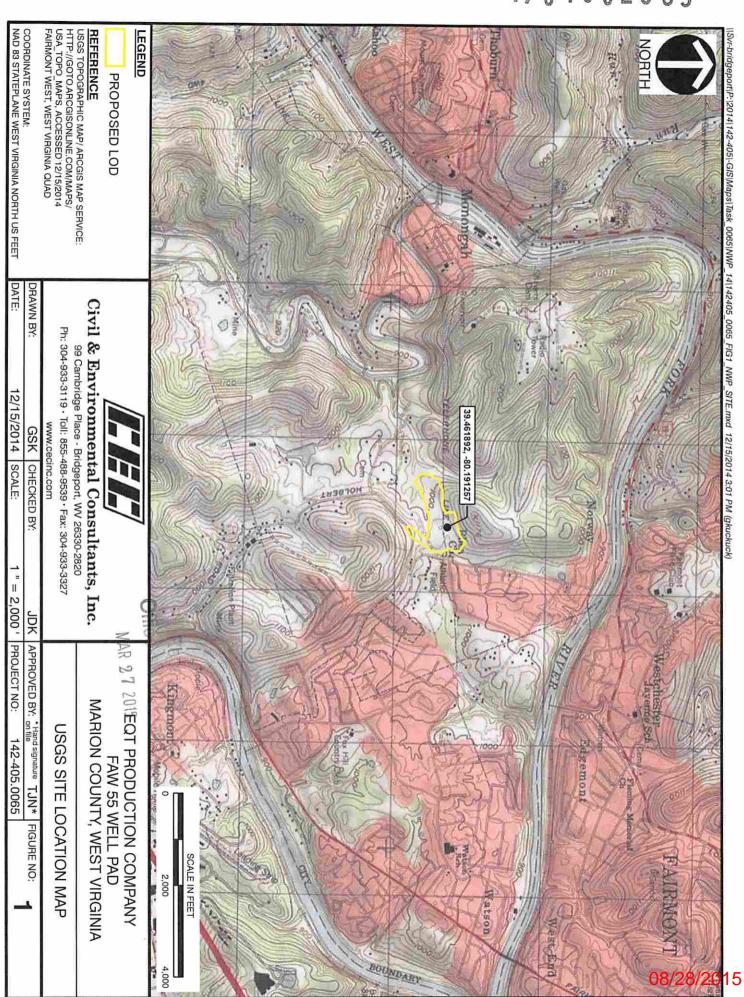
(Insert additional pages as needed)

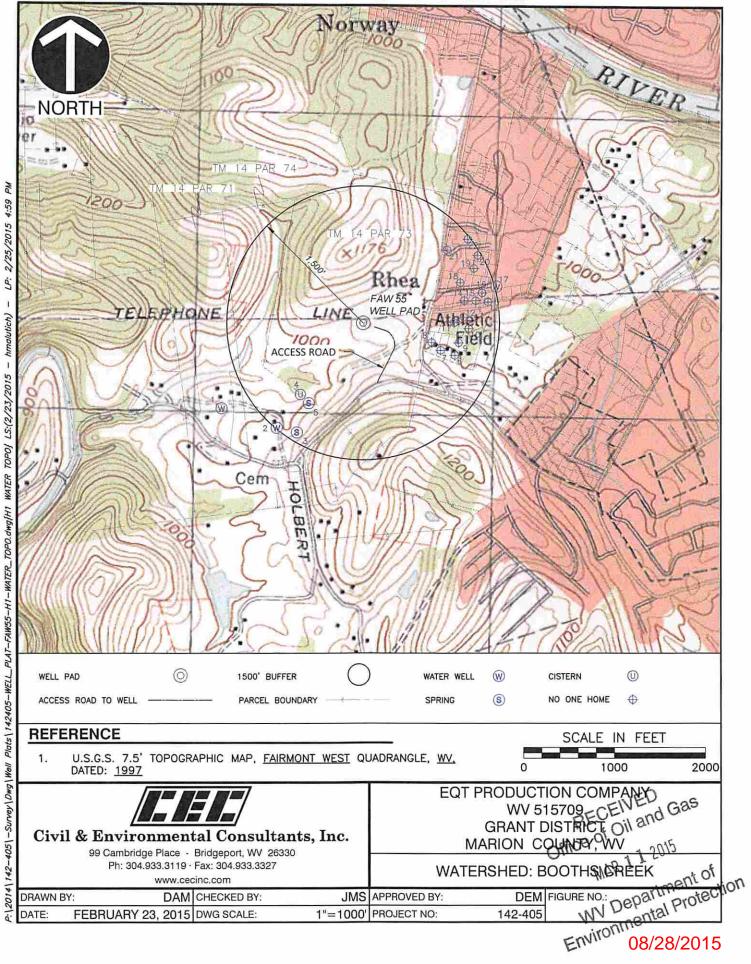
145 of 16

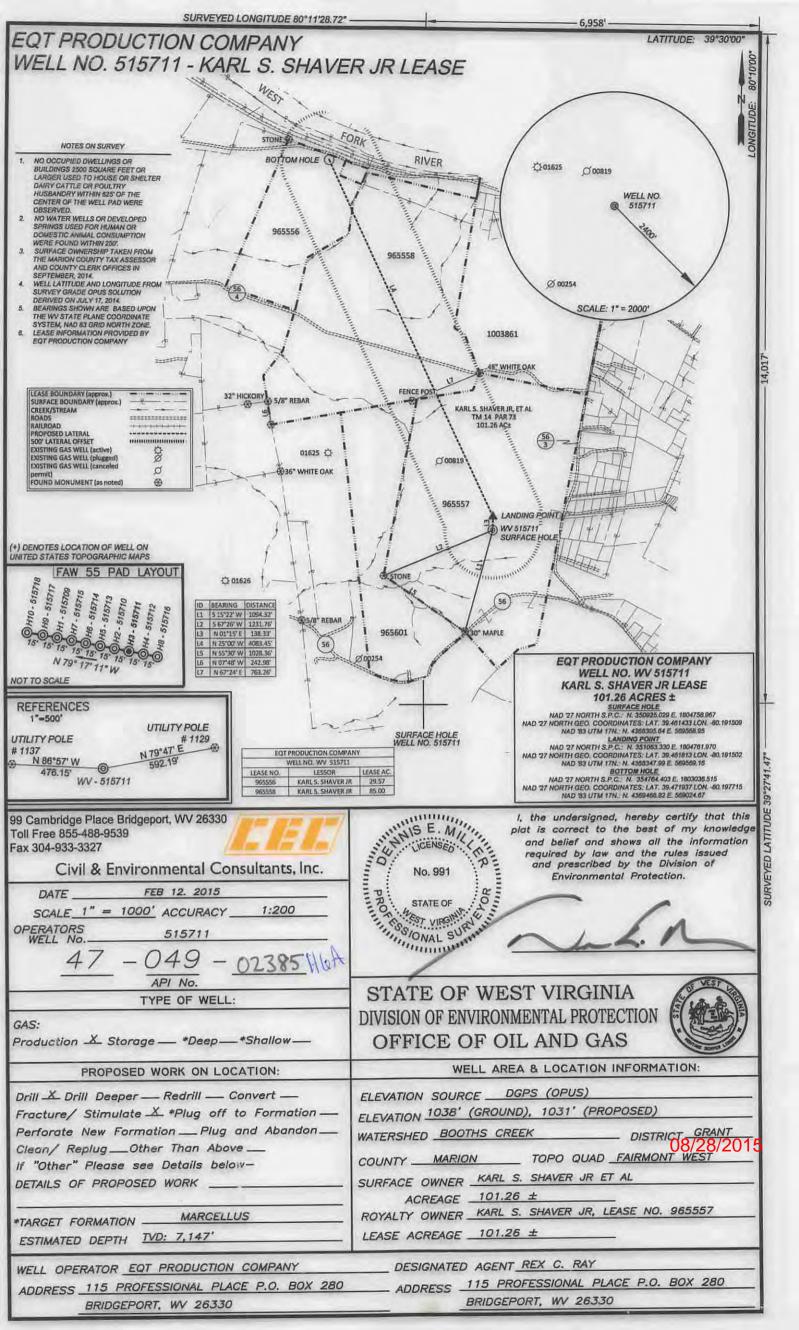
	Distance from Gas We	ll (ft):
nmission of M		
nt, WV 26554	4	Phone #:
2nd:	3rd:	Date Door Hanger Left:
city water		
		Phone #:
-	Owner home during sur	vey (yes/no):
	(decimal degrees - NAD	83)
2nd: _	3rd:	Date Door Hanger Left:
	Distance from Gas Wel	l (ft):
	·	<u> </u>
_	Owner home during sun	vey (yes/no):
	(decimal degrees - NAD	83)
2nd:	3rd:	Date Door Hanger Left:
		
	Distance from Gas Well	l (ft):
	Distance from Gas Well	
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(Insert additional pages as needed)

WV nn26 of 16 Chit 08/28/2015







WW-6A1 (5/13)

Operator's Well No.

515711

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 –

- 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
ramber	Stanot, Lesson, etc.	Grance, Lessee, etc.	Min 1/8 pd	BOOK! age
Lease 965557			min tro pu	
	Karl S. Shaver, Jr.	Hunt Marcellus, LLC		DB 1071/97
	Hunt Marcellus, LLC	EQT Production Company		AB 46/916
Lease 965558				
	Karl S. Shaver, Jr.	Hunt Marcellus, LLC		DB 1071/101
	Hunt Marcellus, LLC	EQT Production Company		AB 46/916
Lease 965556				
	Karl S. Shaver, Jr.	Hunt Marcellus, LLC		DB 1071/103
	Hunt Marcellus, LLC	EQT Production Company		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 of nullified the feed 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

Environmental Prot

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

Date of No	otice Certification:	API	No. 47 ⁻ 049	- 0
		Ope	erator's Well No.	515711
			ll Pad Name:	FAW55
Pursuant to below for th State: County: District: Quadrangle: Watershed:	e tract of land as follows: WV Marion Grant Fairmont West 7.5 Booths Creek	Code § 22-6A, the Operator has provided the re UTM NAD 83 Easting: UTM NAD 83 Northing: Public Road Access: Generally used farm name: D), every permit application filed under this sect		569,568.95 4,368,305.84 CR 56 Shaver
prescribed to the provice information of giving the requirement Virginia Cod	by the secretary, shall be verified ded the owners of the surface de required by subsections (b) and a surface owner notice of entry to the subsection (b), section sixters	d and shall contain the following information: (1- scribed in subdivisions (1), (2) and (4), subsect (c), section sixteen of this article; (ii) that the re- consurvey pursuant to subsection (a), section ten even of this article were waived in writing by the schall tender proof of and certify to the secretary	4) A certification from tion (b), section ten of equirement was deem of this article six-a; o surface owner; and Po	the operator that (i) this article, the ed satisfied as a result r (iii) the notice ursuant to West
that the Ope	-	e Operator has attached proof to this Notice Ce equired parties with the following:	ertification	OOG OFFICE USE ONLY
	E OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCT		RECEIVED/NOT REQUIRED
▼ NOTIC	E OF ENTRY FOR PLAT SU	JRVEY or NO PLAT SURVEY WAS	CONDUCTED	RECEIVED
□ NOTIC	E OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SUF WAS CONDUCTED OR		. RECEIVED/NOT REQUIRED
		WRITTEN WAIVER BY SURFACE CO (PLEASE ATTACH)	OWNER	
₩ NOTIC	E OF PLANNED OPERATIC	oN .	(2 전) 교육: - [RECEIVED
I ✓ PUBLI	C NOTICE			RECEIVED
NOTIC	E OF APPLICATION			RECEIVED
			<u> </u>	RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that Place of Oil and Gas the required parties and/or save and the required parties are the required parties and the required parties and the required parties are the required part 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 affick to the person may be made by Environmental Protection the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

Well Operator:	EQT Production Company	Address:	P.O. Box 280	
Ву:	Victoria J. Roark	Bridgeport,	WV 26330	
Its:	Permitting Supervisor	Facsimile:	304-848-0040	
Telephone:	304-848-0076	Email:	vroark@eqt.com	



Subscribed and sworn before me	e this	9	day of	MARCH	,2015
H	-				Notary Public
My Commission Expires	7/07	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.

RECEIVED
Office of Oil and Gas

MAR 1 1 2015

WV Department of Environmental 68/28/2015

WW-6A (9-13) 4704902385

API NO. 47 - 049 - 0515711

Well Pad Name: FAW55

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

	otice shall be provided no later than the filing	date of permit application.
Date of Notice:	Date Permit Application Fil	ed:
Notice of:		
PERMIT FOR ANY WELL WORK	CONSTRUCTION OF AN	OVAL FOR THE IMPOUNDMENT OR PIT
Delivery method pursuant t	to West Virginia Code § 22-6A-10(b)	
7		
☐ PERSONAL		ETHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL RE	ECEIPT OR SIGNATURE CONFIRMATION
requires a receipt or signal to each of the followithe surface tract or tracts disturbance as described lessee, in the event the trecord of the surface tractonstruction, enlargeme water purveyor who is k which is used to provide work activity is to take p in the lands, the applicant article one, chapter elevantess the lien holder is	nature confirmation, copies of the app wing persons: (1) The owners of recor is overlying the oil and gas leasehold be I in the erosion and sediment control peract of land on which the well propose et or tracts overlying the oil and gas lead to tracts overlying the oil and gas lead int, alteration, repair, removal or abandance water for consumption by humans of blace. (c)(1) If more than three tenants int may serve the documents required the en-a of this code. (2) Notwithstanding the landowner. W. Va. Code R. § 35-	this article shall deliver, by personal service or by registered mail or by any olication, the erosion and sediment control plan required by section seven of red of the surface of the tract on which the well is or is proposed to be located; being developed by the proposed well work, if the surface tract is to be used plan submitted pursuant to subsection (c), section seven of this article; (3) The ed to be drilled is located [sic] is known to be underlain by one or more coal easehold being developed by the proposed well work, if the surface tract is to doment of any impoundment or pit as described in section nine of this rewell, spring or water supply source located within one thousand five or domestic animals; and (6) The operator of any natural gas storage field is in common or other co-owners of interests described in subsection (b) of upon the person described in the records of the sheriff required to be gany provision of this article to the contrary, notice to a lien holder is not -8-5.7.a requires, in part, that the operator shall also provide the Well Site ubject to notice and water testing as provided in section 15 of this rule.
✓ Application Notice ✓ SURFACE OWNER Name: Address:	WSSP Notice E&S Plan Notice R(s) Karl S. Shaver Jr. POA for Larry A. Shaver	COAL OWNER OR LESSEE Name: Address: Bell Shareholders, LLC 5700 Buck Hollow Drive
	129 Old Monongah Road	Alpharetta, GA 30005
	Fairmont, WV 26554	See attached for additional coal owners.
Name:	0	COAL OPERATOR
Address:	0	Name: 0
	0	Address: 0
SURFACE OWNER	RS(s) (Road and/or Other Disturbance	
Name: Address:	Karl S. Shaver Jr. POA for Larry A. Shaver 129 Old Monongah Road Fairmont, WV 26554	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Elizabeth A. Smith /
Name:	0	Address: 259 OLD MONONGAH RDV
Address:	0	FAIRMONT WV 26554-5374
	0	0
SURFACE OWNER	R(s) (Impoundments/Pits) Karl S. Shaver Jr.	OPERATOR OF ANY NATURAL GAS STORAGE DELD Name: RECEIVED GAS
Address:	POA for Larry A. Shaver	Name: RECEIVED Address: Office of Oil and Gas
- Maria and	129 Old Monongah Road	Office of Contract
	Fairmont, WV 26554	1 1 2015
		*Please attach additional forms if necessarMAR 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

WW-6A (8-13)

4704902385

API NO. 47 - 049 - 0

OPERATOR WELL NO. 515711

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.

Well Location Restrictions

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

WW-6A (8-13)

API NO. 47 OPERATOR WELL NO. 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 on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service untraditional traditional 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 of the secretary or a court of competent jurisdiction.

rursuant 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

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.

WW-6A (8-13) API NO. 47 - 049 - 049 0 2 3 8 5 OPERATOR WELL NO. 515711
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 a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Notice is hereby given by:

Well Operator:	EQT Production Company	Address:	115 Professional Place P.O. Box 280
Telephone:	304-848-0082		Bridgeport, WV 26330
Email:	Vroark@eqt.com	Facsimile:	304-848-0041

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Nicholas L. Bumgardner
Rt. 1, Box 4
Liberty, WV 25124

2....

By: Victoria Roark Its: Permitting Supervisor

Subscribed and sworn before n (day of

Notary Public

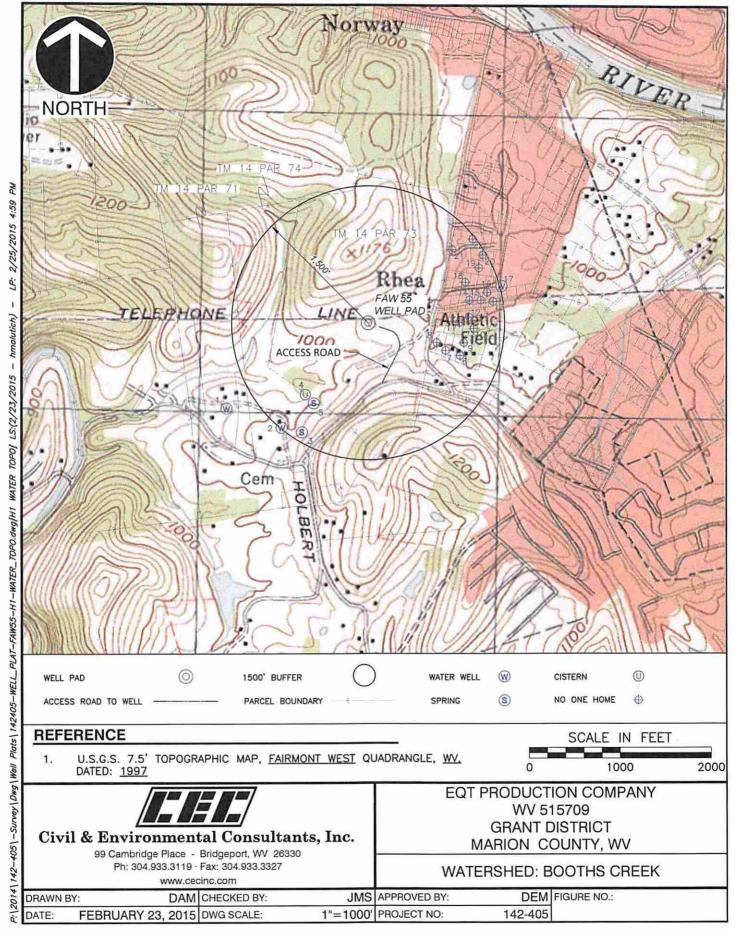
My Commission Expir 7/27/2019

Office of Oil and Gas

MAR 11 2015

WV Department of
Environmental Protection

KARL S. SHAVER JR. LEASE



WW6-A

Additional Coal Owners: Karl S. Shaver Jr.

POA for Larry A. Shaver 129 Old Monongah Road Fairmont, WV 26554

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 RECEIVED
Office of Oil and Gas

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WV Department of Environmental Protection

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Office of Oil and Gas

MAR 1 2 2015

WV Department of
Environmental Protection

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

		so provided at le	agi Ji	EVEN (7) days but no more to	nan F	UK [Y-F	·IVE (45) days prid	or to entry.
Date of Notice:	4/28/2014		_	Date of Plan	nned I	Entry: ्	5/5/2014	
Delivery metho	od pursuant to West Vi	irginia Code § 22-	6 A -10	(a):				
PERSONA	L SERVICE X CE	ERTIFIED MAIL		METHOD OF DELIVERY THA	T REQ	UIRES /	A RECEIPT OR SIG	NATURE CONFIRMATION
prior to such en pursuant to sec records. The no and gas explora	try to: (1) The surface of the control of the contr	ed pursuant to this owner of such tract ix, chapter twenty-i ement that copies on the obtained from	artici t; (2) t two o of the the S	permit application, the operate. Such notice shall be provide any owner or lessee of coff this code; and (3) any owner the Erosion and Sediment ecretary, which statement shaper to obtain copies from the	ded at al sea ner of Contra all inc	least some	even days but no leath such tract that uls underlying such ual and the statut	more than forty-five days at has filed a declaration the tract in the county tax
Notice is hereb	y provided to:							
X SUI	RFACE OWNER(S)			X	MIN	ERAL (OWNER(S)	
	l S. Shaver, Jr.			Name:	_ Karl	S. Sha	ver. Jr.	
	Old Monongah Rd. rmont, WV 26554			Address:	129	Old Mo	nongah Rd. N 26554	
Coa	AL OWNER(S) OR LES al Declaration pursuant t -6-36 Not of Record			_	*Plea	se attach	additional forms if nec	cessary
Notice is hereb	• •							
Pursuant to Wes the tract of land	st Virginia Code § 22-6A as follows:	\-10(a), notice is he	reby	given that the undersigned w	ell ope	erator is	planning entry to	conduct a plat survey on
State:	West Virginia			Approx. Latitude & Longi	itude:	39.46	970 / -80.19990	
County:	Marion		_	Approx. Latitude & Longi	itude:	39.46	6659 / -80.19501	
Dist/Map/Par:	Grant / Map 14 / Parcel	ls 30, 31, 73		Approx. Latitude & Longi	itude:	39.46	519 / -80.19089	39.46079 / -80.19467
Quadrangle:	Fairmont West			Public Road Ac	cess:	CR56	6/3 and CR56/4	
Watershed: _	West Fork River		_	Generally Used Farm N	lame:	Shave	er	
Copies of the sobtained from the (304-926-0450).	tate Erosion and Sedin e Secretary, at the WV Copies of such docum v/oil-and-gas/pages/defa	nent Control Manu Department of Env nents or additional ault.aspx.	al an ironm infori	d the statues and rules rela ental Protection headquarter nation related to horizontal	ited to s, loca drilling	oil and ated at 6 may b	d gas exploration 501 57th Street, St e obtained than	and production may be harleson, WV 25304 ing Secretary by visiting
Notice is hereb	y given by:						Office or	Bridgest H. Wy 28330 Departal Wy 28330
Well Operator:	EQT Production Comp	pany		Addre	ess:	115 Pr	ofessional Place.	Bridgestiff, WW 28330
•	304-848-0099			EQT Representat	ive:	Kathy I	Kugel	Delental Me20000
•	304-848-0040			•	-		1 1/1	July C
•	eqtlandentrynotice@ed	qt.com		Signati	ure: _	Z	Thomas Mill	ugel
Oil and Gas Pri	vacy Notice:	your paraenal info-	matic:	n such a name address an	d tolo	oboro -	number es mert s	DECEIVED V

personal information may be disclosed to other State agencies or third parties in the normal course of business or as perfect to comply writing factors 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.gev.1 1 2015

WV Depart antof Environmental Protection **WW-6A5** (1/12)

Operator Well No.

515711

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	: <u> </u>	D	Date Permit Appli	cation Filed:		
Delivery meth	od pursuant to West V	irginia Code § 22-6A	-16(c)			
	FIED MAIL RN RECEIPT REQUI	HAN	ID IVERY			
return receipt re the planned ope required to be p drilling of a horia damages to the	quested or hand delivery ration. The notice require rovided by subsection (b) contal well; and (3) A prop surface affected by oil and	give the surface owne d by this subsection sha section ten of this arti- osed surface use and c d gas operations to the	r whose land will b all include: (1) A co cle to a surface ow compensation agree extent the damage	e used for the dril py of this code sener whose land wi ment containing s are compensable	erator shall, by certified mail lling of a horizontal well notice of ction; (2) The information ill be used in conjunction with the an offer of compensation for e under article six-b of this chapter. e records of the sheriff at the time	
Notice is hereby	provided to the SURFAC	E OWNER(s)				
at the address I	isted in the records of the	sheriff at the time of n	otice):			
Name:		Karl S. Sha	ver Jr. Name:			0
\ddress:		POA for Larry A.	<u>Shaver</u> Addres	s:		0
Notice is hereby	t Virginia Code § 22-6A-1	129 Old Monongal	ven that the under	signed well opera	tor has developed a planned	0
Notice is hereby Pursuant to Wes operation on the State: County:	•	129 Old Monongal 6(c), notice is hereby githe purpose of drilling WV Marion	ven that the under a horizontal well o UTM NAD 83	signed well opera n the tract of land Easting: Northing:	as follows: 569,568.9500 4,368,305.8400	000
Notice is hereby Pursuant to Wes operation on the State: County: District:	t Virginia Code § 22-6A-1	129 Old Monongal 6(c), notice is hereby githe purpose of drilling WV Marion Grant	ven that the under a horizontal well o UTM NAD 83 Public Road Acc	signed well opera n the tract of land Easting: Northing:	as follows: 569,568.9500 4,368,305.8400 CR	000
Notice is hereby Pursuant to Wes operation on the State: County: District: Quadrangle:	et Virginia Code § 22-6A-1 e surface owner's land for	129 Old Monongal 6(c), notice is hereby githe purpose of drilling WV Marion	ven that the under a horizontal well o UTM NAD 83	signed well opera n the tract of land Easting: Northing:	as follows: 569,568.9500 4,368,305.8400	000
Notice is hereby Pursuant to Wes operation on the State: County: District: Quadrangle:	t Virginia Code § 22-6A-1	129 Old Monongal 6(c), notice is hereby githe purpose of drilling WV Marion Grant	ven that the under a horizontal well o UTM NAD 83 Public Road Acc	signed well opera n the tract of land Easting: Northing:	as follows: 569,568.9500 4,368,305.8400 CR	000
Notice is hereby Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:	et Virginia Code § 22-6A-1 e surface owner's land for Booths Creek	129 Old Monongal 6(c), notice is hereby githe purpose of drilling WV Marion Grant	ven that the under a horizontal well o UTM NAD 83 Public Road Acc	signed well opera n the tract of land Easting: Northing:	as follows: 569,568.9500 4,368,305.8400 CR	000
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operation on the State: County: District: Quadrangle: Watershed: This Notice Shal Pursuant to Wes to be provided b horizontal well; surface affected information rela	Booths Creek I Include: st Virginia Code § 22-6A-1 by W. Va. Code § 22-6A-1 and (3) A proposed surface by oil and gas operations sted to horizontal drilling in coated at 601 57th Street,	129 Old Monongal 6(c), notice is hereby given the purpose of drilling WV Marion Grant Fairmont West 7.5' 6(c), this notice shall incompany to a surface owner e use and compensation to the extent the dama may be obtained from the SE, Charleston, WV 253	ven that the under a horizontal well of UTM NAD 83 Public Road According Generally used for the company of whose land will be an agreement containing are compensal the Secretary, at the	signed well operanthe tract of land Easting: Northing: ess: arm name: this code section; used in conjunctioning an offer of cole under article signs.	as follows: 569,568.9500 4,368,305.8400 CR Shav (2) The information required on with the drilling of a compensation for damages to the ix-b of this chapter. Additional of Environmental Protection	000 000 56 ver

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our Wallaton Ontal Production. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or the normal course of the normal cours appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

February 23, 2015

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

Subject: DOH Permit for the 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		3 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

Dear Mr. Martin.

This well site will be accessed from Permit #04-2014-1380 applied for by EOT 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. RECEIVED Gas
Regional Maintenance Engineer
Central Office O&G O Central Office O&G Coordinater 1 1 2015

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-4, File

WVA Epartment of WVA Epartment of WVA Epartment of Branch of Cil and Gas MAR 11 2015

WV Department of Environmental 16/2000 (2000)

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	CAS Number
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

