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

December 30, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-4105698, 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: 511527
Farm Name: HUMPHREYS, LOUISE R. ET AL
API Well Number: 47-4105698
Permit Type: Horizontal 6A Well
Date Issued: 12/30/2015

Promoting a healthy environment.

API Number: 41- 05698

PERMIT CONDITIONS

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

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.

2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.

4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.

5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations,* 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

7. 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. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

west virginia department of environmental protection

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
115 Professional Place
P.O. Box 230
Bridgeport WV, 26330

DATE: December 29, 2015
ORDER NO.: 2015-W-13

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 115 Professional Place, P.O. Box 230, Bridgeport, West Virginia.

3. On September 8, 2015, EQT submitted a well work permit application identified as API# 47-041-05698. The proposed well is to be located on the ROA 128 Pad in Collins Settlement District of Lewis County, West Virginia.

4. On September 8, 2015, EQT requested a waiver for the perennial stream Crane Camp Run as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-041-05698.

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 the perennial stream Crane Camp Run from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# # 47-041-05698. The Office of Oil and Gas hereby **ORDERS** that EQT shall meet the following site construction and operational requirements for the ROA 128 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 a twenty four inches (24") in height;
b. Filter/silt socks shall be installed on all slopes and down gradient locations of the pad, pit/impoundment and topsoil pile areas as erosion and sediment controlling BMPs;
c. The perennial stream Crane Camp Run shall have a single eighteen inch (18") compost filter sock on the fill slope of the well pad. On the other side of a small access road a triple stacked eighteen inch (18") compost filter sock shall be placed in all areas immediately adjacent to the stream.
d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
i. 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;
j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 29th day of December, 2015.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: _____
JAMES A. MARTIN, CHIEF

WW - 6B
(4/15)

API NO. 47 - 041 - 0
OPERATOR WELL NO. 511527
Well Pad Name: ROA128

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

04105698

1) Well Operator: EQT Production Company

Operator ID	County	District	Quadrangle
306686	041	1	580

2) Operator's Well Number: 511527 Well Pad Name ROA128

3) Farm Name/Surface Owner : Louis R. Humphreys et al Public Road Access: RT 19

4) Elevation, current ground: 1,157.0 Elevation, proposed post-construction: 1,150.0

5) Well Type: (a) Gas • Oil _____ Underground Storage _____

Other _____

(b) If Gas: Shallow • Deep _____

Horizontal •

6) Existing Pad? Yes or No: no

7) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):

Target formation is Marcellus at a depth of 6838 with the anticipated thickness to be 87 feet and anticipated target pressure of 2171 PSI

Top of Marcellus: 6781

8) Proposed Total Vertical Depth: 6968 100' into Onondaga
9) Formation at Total Vertical Depth: Onondaga ~~least~~ No More than 100', fa
10) Proposed Total Measured Depth: 17134
11) Proposed Horizontal Leg Length 9,860
12) Approximate Fresh Water Strata Depths: 7, 36, 42, 151, 155, 471
13) Method to Determine Fresh Water Depth: By offset wells
14) Approximate Saltwater Depths: N/A
15) Approximate Coal Seam Depths: N/A
16) Approximate Depth to Possible Void (coal mine, karst, other): None reported
17)Does proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No x

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

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

WW - 6B
(4/15)

App Received 09/08/15

47-041-05698

OPERATOR WELL NO. 511527
Well Pad Name: ROA128

CASING AND TUBING PROGRAM

18)

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill- up (Cu.Ft.)
Conductor	26	New	MC-50	77	95	95	116 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	621	621	552 C.T.S.
Coal	–	–	–	–	–	Roger Harris	10-5-15
Intermediate	9 5/8	New	A-500	40	4,088	4,088	1,615 C.T.S.
Production	5 1/2	New	P-110	20	17,134	17,134	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.375	-	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	2,184	* See Note 2	1.21
Coal							
Intermediate	9 5/8	12 3/8	0.395	3,950	3,160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10,112	-	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)

RECEIVED
Office of Oil and Gas
OCT 13 2015
WV Department of
Environmental Protection

WW - 6B
(10/14)

04105698

API NO. 47 - 041 - 0
OPERATOR WELL NO. 511527
Well Pad Name: ROA128

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

Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an approximate depth of 6968'. Tag the Onondaga not more than100', rung logs, then plug back with a solid cement plug to approximately 5732'. Then kick off the horizontal leg into the Marcellus formation using a slick water frac.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): 15.45

22) Area to be disturbed for well pad only, less access road (acres): 13.05

23) Describe centralizer placement for each casing string.

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

24) Describe all cement additives associated with each cement type.

Surface (Type 1 Cement): 0-3% Calcium Chloride Used to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.

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

Production:

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

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

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

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

60 % 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 (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.

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

Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

Received
SEP - 8 2015

*Note: Attach additional sheets as needed.

Office of Oil and Gas
WV Dept. of Environmental Protection

Well Schematic
EQT Production

04105698

Well Name	511527 (ROA128H3)	**Elevation KB:**	1163
County	Lewis	**Target**	Marcellus
State	West Virgina	**Prospect**	
		Azimuth	340
		Vertical Section	10287

Depth	Formation	Depth	Description
0'		0'	Hole Size 30" - 26" Conductor at 95' Bit Size 17.5"
500'	471' Fresh Water Base	500'	
			TOC @ Surface 13 3/8", MC-50, 54.5# @ 621' ft MD Bit Size 12.375"
1,000'	958' Maxton	1,000'	
	1,305' Big Lime		
1,500'	1,650' -Gantz 1,701' -Fifty foot 1,827' Base Red Rock 1,879' -Thirty foot	1,500'	
2,000'	2,020' -Gordon	2,000'	
	2,251' -Fifth Sand		
2,500'	2,476' -Bayard	2,500'	
	2,636' -Speechley 2,729' -Balltown A		
3,000'		3,000'	
	3,227' -Riley		
3,500'		3,500'	
			TOC @ Surface 9 5/8", MC-50, 40# @ 4,088' ft MD Bit Size 8.5"
4,000'	3,944' -Benson 4,088' Int. csg pt	4,000'	
	4,339' -Alexander		
4,500'		4,500'	
5,000'		5,000'	
5,500'		5,500'	**KOP = 5,732' ft MD** **10 Deg DLS**
6,000'		6,000'	
	6,219' -Sonyea 6,375' -Middlesex 6,500' -Genesee 6,647' -Geneseo		
6,500'	6,681' -Tully 6,702' -Hamilton 6,781' -Marcellus 6,868' Onondaga	6,500'	**Land @ 7,274' ft MD** **6,838' ft TVD** **5 1/2", P-110, 20# 17,134' ft MD** **6,838' ft TVD**
7,000'		7,000'	
7,500'		7,500'	
8,000'		8,000'	

Received

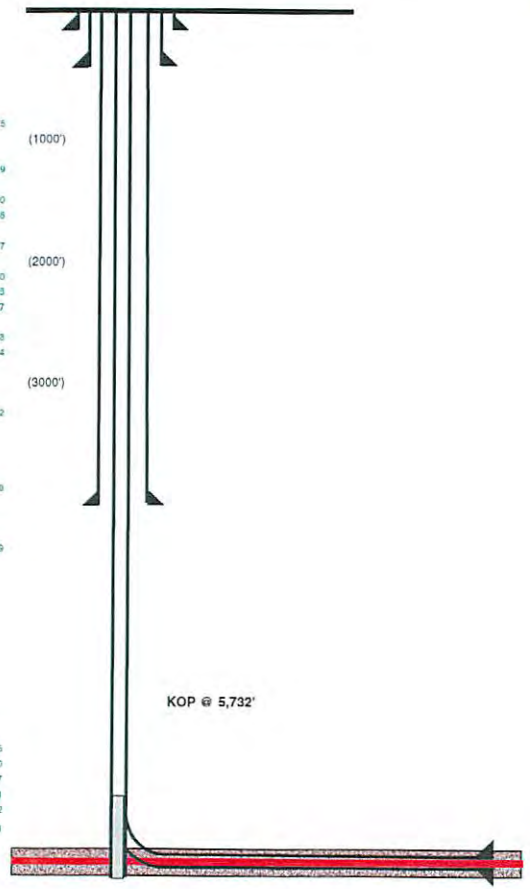
SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Well 511527 (ROA128H3)
EQT Production
Roanoke
Lewis West Virgina

Azimuth 340
Vertical Section 10287

TVD Depth (feet)	Formation Tops (TVD)		
0'			
250'			
	Base Fresh Water	471	
500'			
750'			
	Maxton	958 - 1175	
1,000'			(1000')
1,250'	Big Lime	1305 - 1529	
1,500'	-Gantz	1650 - 1690	
	-Fifty foot	1701 - 1768	
1,750'	Base Red Rock	1827	
	-Thirty foot	1879 - 1917	
2,000'			(2000')
	-Gordon	2020 - 2060	
2,250'	-Fifth Sand	2251 - 2283	
	-Bayard	2476 - 2577	
2,500'			
	-Speechley	2636 - 2698	
2,750'	-Balltown A	2729 - 2954	
3,000'			(3000')
3,250'	-Riley	3227 - 3402	
3,500'			
3,750'			
	-Benson	3944 - 4038	
4,000'	int. cag pt	4088	
4,250'			
	-Alexander	4339 - 4589	
4,500'			
4,750'			
5,000'			
5,250'			
5,500'			
5,750'			
6,000'	-Sonyea	6219 - 6375	
	-Middlesex	6375 - 6500	
6,250'	-Genesee	6500 - 6647	
	-Geneseo	6647 - 6681	
6,500'	-Tully	6681 - 6702	
	-Hamilton	6702 - 6781	
6,750'	Marcellus top	6781	
	Target Inside Marcellus	**6838**	
7,000'	Marcellus Bottom	6868	
7,250'			
7,500'			
7,750'			



Hole Size (inches)	Casing Type	Size (inches)	Wt (ppf)/Grade
30	Conductor	26	77#/MC-50
17 1/2	Surface	13 3/8	54.5#/J-55
12 3/8	Intermediate	9 5/8	40#/A-500
8 1/2	Production Casing	5 1/2	20#/P-110

Land curve @ 6,838' ft TVD
7,274' ft MD

Est. TD @ 6,838' ft TVD
17,134' ft MD

9,860' ft Lateral

Proposed Well Work:
Drill and complete a new horizontal well in the Marcellus formation.
The vertical drill to go down to an approximate depth of 6968'.
Tag the Onondaga not more than 100', run logs, then plug back with a solid cement plug to approximately 5732'.
Then kick off the horizontal leg into the Marcellus formation using a slick water frac.

04105693

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson by GCS

James Peterson
Environmental Resources Specialist / Permitting

Promoting a healthy environment.

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

west virginia department of environmental protection

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

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

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

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

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.

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief
Office of Oil and Gas

Received

SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

Page 1 of 2

WW-9
(2/15)

API No. 47 - 041 - 0
Operator's Well No. 511527

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
Fluids/Cuttings Disposal & Reclamation Plan

Operator Name EQT Production Company OP Code 306686

Watershed (HUC10) Crane Camp Run of West Fork River Quadrangle Roanoke 7.5'

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

Will a pit be used ? Yes: X No: ____

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

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.

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

Additives to be used in drilling medium? Air - biodegradable oil lubricant , detergent, defoaming, water. Water based mud – Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant , defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant , defoaming, carbonates.

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

- If left in pit and plan to solidify what medium will be used? (Cement, Lime, sawdust) n/a
- Landfill or offsite name/permit number? See Attached List

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

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

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

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

Company Official Signature
Company Official (Typed Name) Victoria J. Roark
Company Official Title Permitting Supervisor

Subscribed and sworn before me this 2 day of September, 20 15

Rebecca L Heater Notary Public

My commission expires 4-7-20

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. HEATER
EQT PRODUCTION COMPANY
PO BOX 280
BRIDGEPORT, WV 26330
My commission expires April 07, 2020

Form WW-9

Operator's Well No. 4 1 0 5 6 9 8

Proposed Revegetation Treatment: Acres Disturbed 15.45 Prevegetation pH 6

Lime 3 Tons/acre or to correct to pH 6.5

Fertilize type Granular 10-20-20

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

Mulch 2 Tons/acre

Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Dwight Harris

Comments:

Title: Inspector Date: 10-5-15

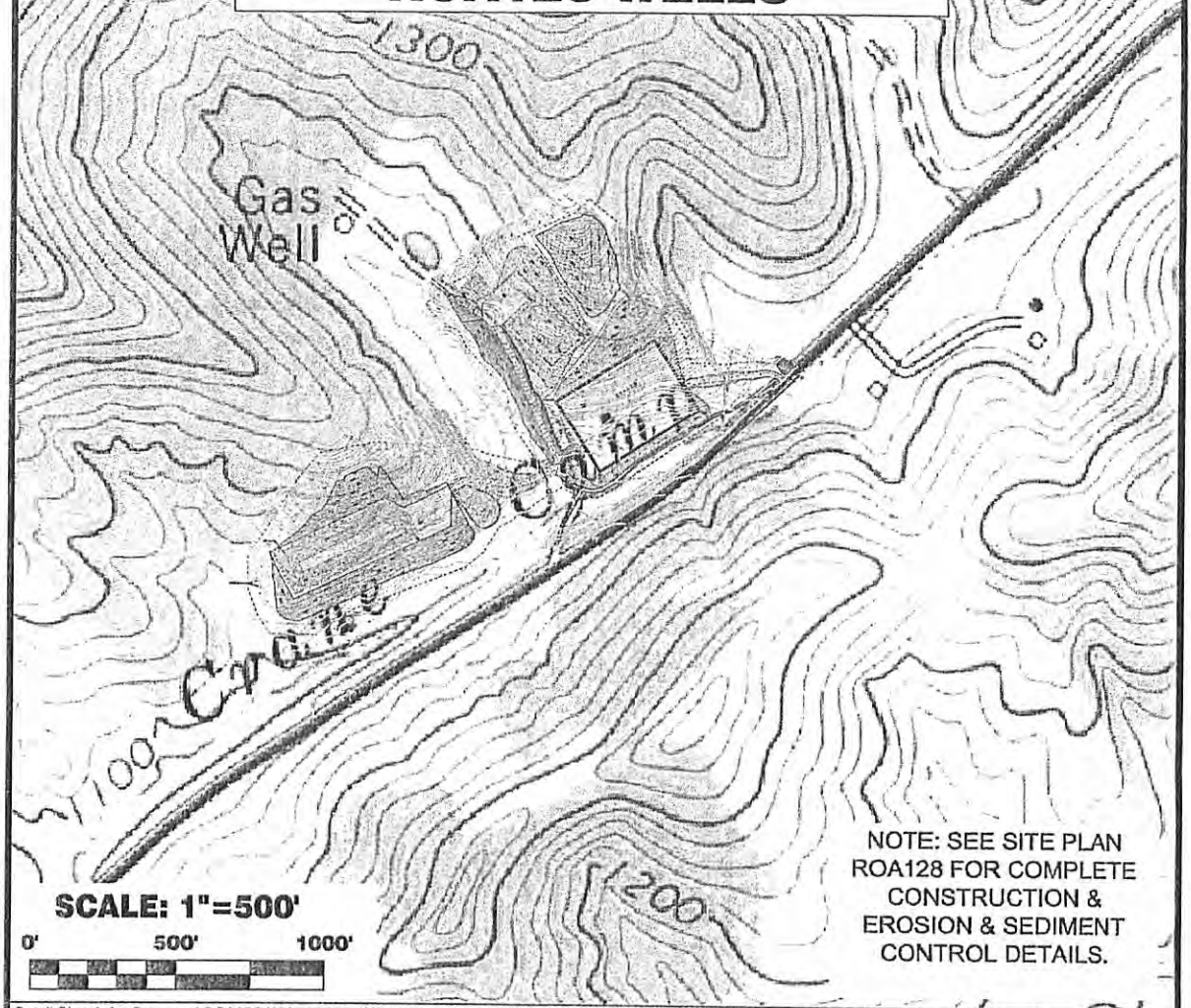
Field Reviewed? (X) Yes ( ) No

Form WW-9

DAVISSON ET UX LEASE
ROA128 WELLS

04105608

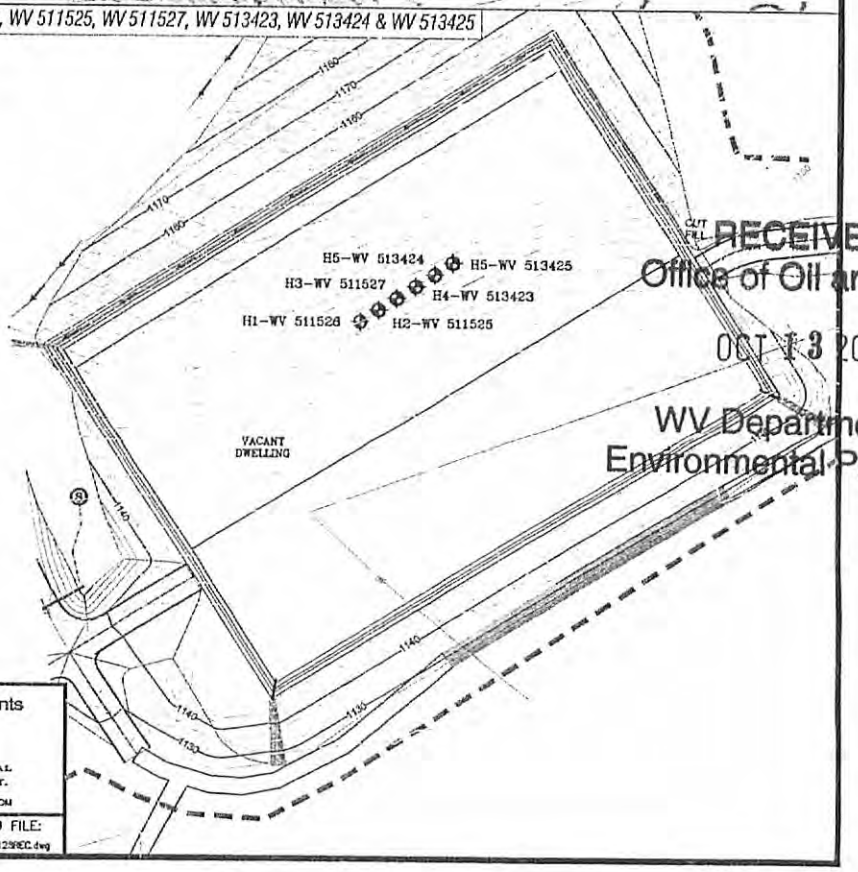
page of



NOTE: SEE SITE PLAN ROA128 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

Detail Sketch for Proposed ROA128 WV 511526, WV 511525, WV 511527, WV 513423, WV 513424 & WV 513425

NOTE: SEE SITE PLAN ROA128 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.



Bryan Harris
10-5-15

RECEIVED
Office of Oil and Gas
OCT 13 2015
WV Department of
Environmental Protection

Not To Scale

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
(304) 462-5834 WWW.SLSSURVEYS.COM

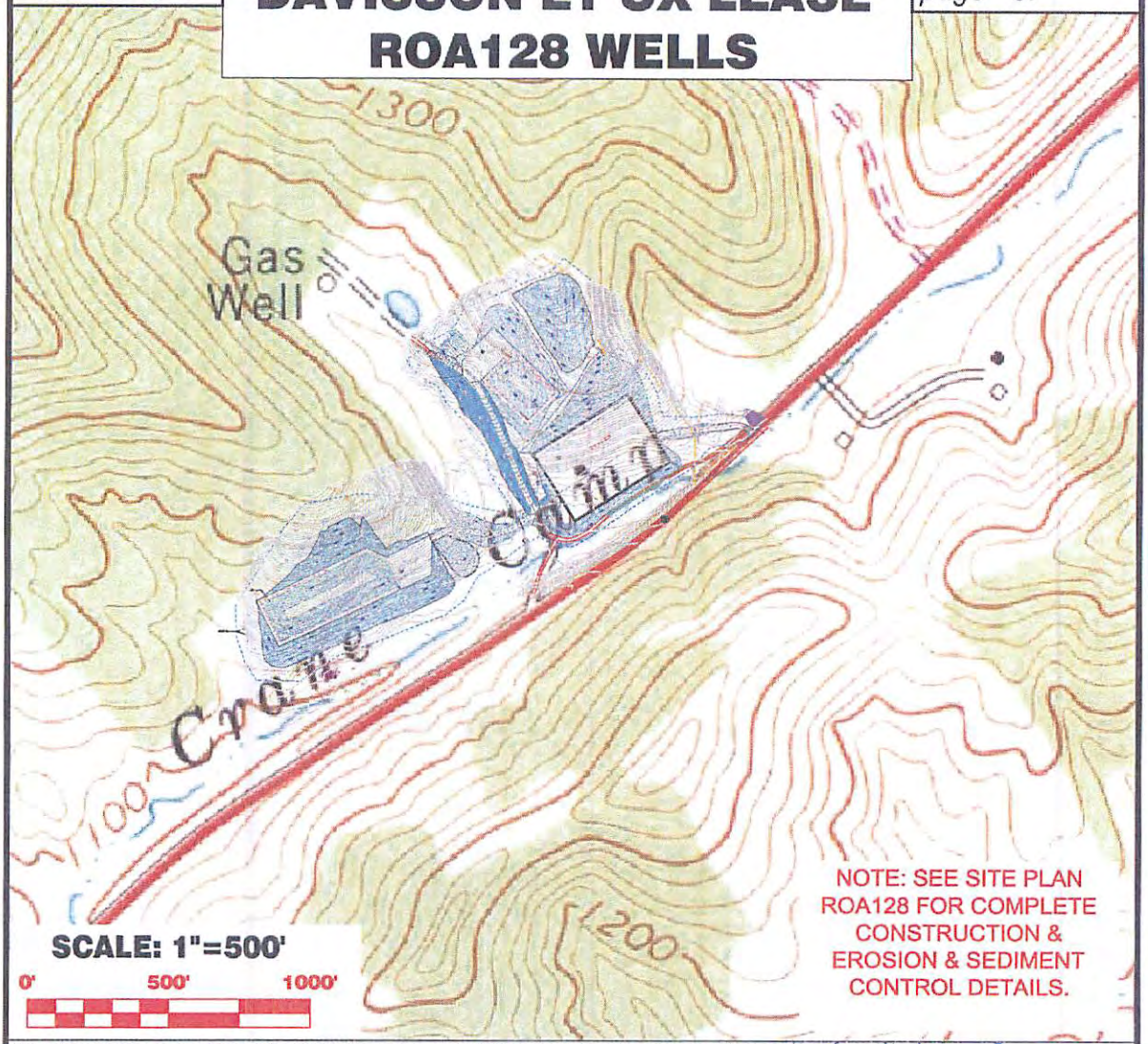
DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	6753	08-21-15	6753ROA128REC.dwg

04105698

Form WW-9

DAVISSON ET UX LEASE
ROA128 WELLS

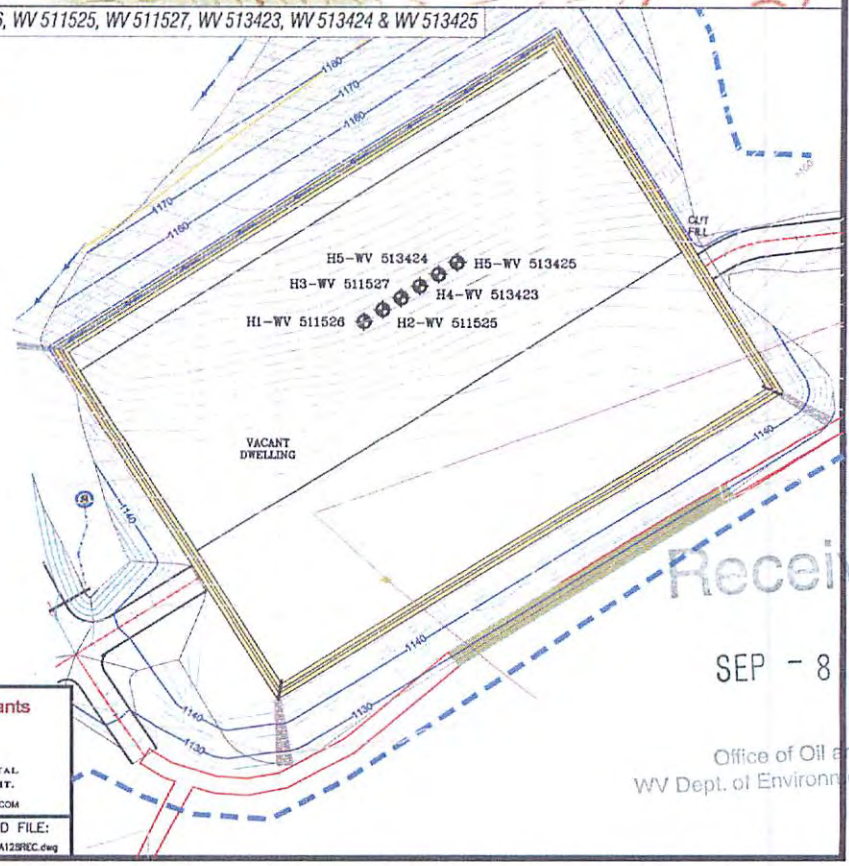
page of



NOTE: SEE SITE PLAN ROA128 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

Detail Sketch for Proposed ROA128 WV 511526, WV 511525, WV 511527, WV 513423, WV 513424 & WV 513425

NOTE: SEE SITE PLAN ROA128 FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.



Not To Scale

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
(304) 462-5634 WWW.SLSSURVEYS.COM

DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	6753	08-21-15	6753ROA128REC.dwg

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

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

Received

SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

EQT

Where energy meets innovation.™

04105698

Site Specific Safety Plan

EQT ROA 128 Pad

Roanoke

Lewis County, WV

For Wells:

511527

RECEIVED
Office of Oil and Gas

OCT 13 2015

WV Department of
Environmental Protection

Date Prepared: **March 26, 2015**

EQT Production

Permitting Supervisor
Title

8-1-15
Date

Bryan Harris
WV Oil and Gas Inspector

Inspector
Title

10-5-15
Date

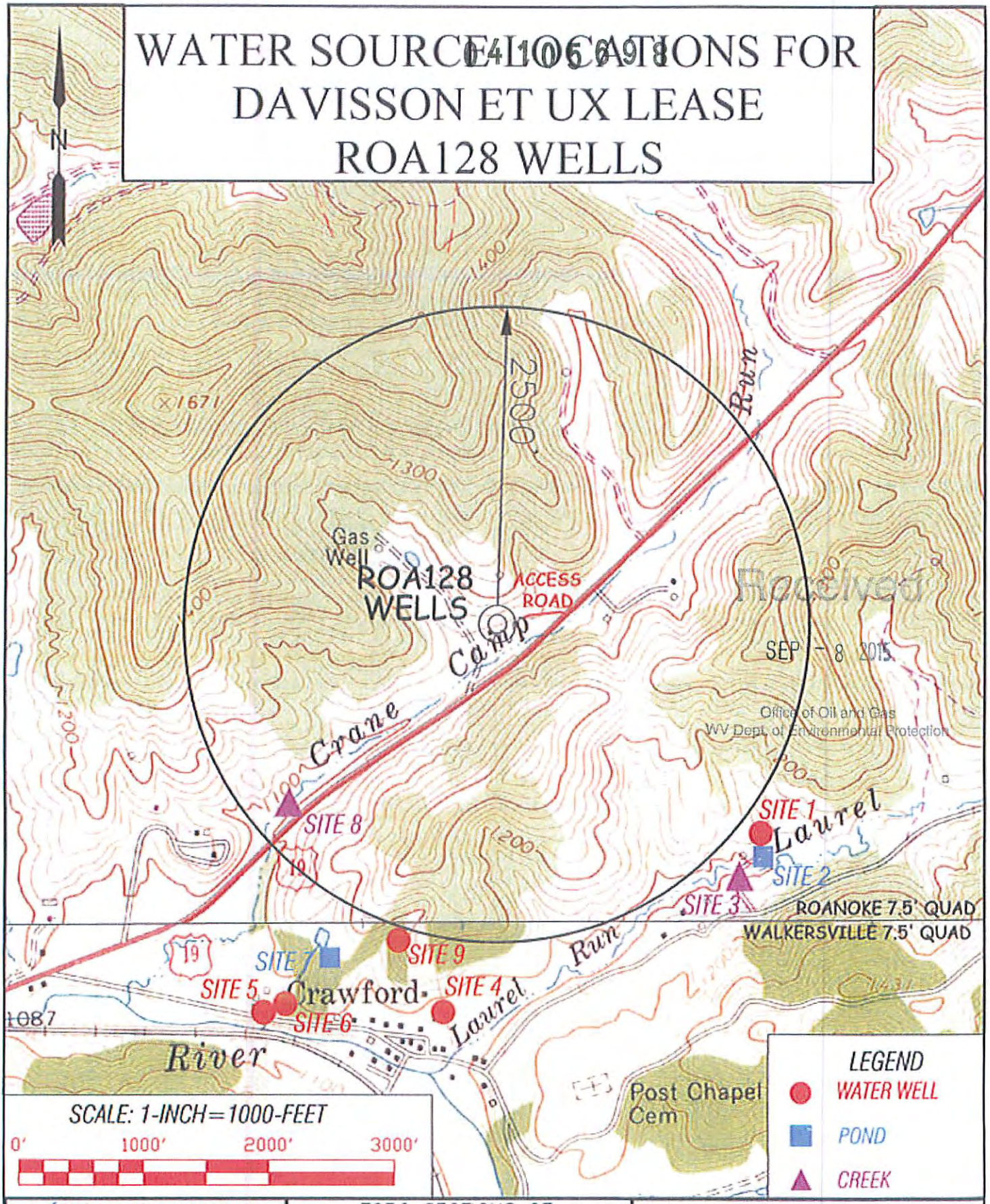
04105698

Drilling Operations Emergency Contact Information	Completions Operations Emer Contact Information
On-Site Drilling Specialist EQT Corporation **TO BE DETERMINED** **Drilling Contractor 1:** **TO BE DETERMINED**	**On-Site Completion Specialist** EQT Corporation **TO BE DETERMINED** **Completions Contractor 1:** **TO BE DETERMINED**
Local, State, and Federal Agency Numbers	**Assigned Specialist Response Numbers**
Local State Well Inspector WVDEP Office of Oil and Gas ~~Douglas Newlon~~ ~~4060 Dutchman Road~~ ~~Macfarlan, WV 26148~~ **Pollution and Emergency Spills 1-800-642-3074** 304.932.8049 (Cell) **USCG/ National Response Center (NRC):** 800.424.8802 **CHEMTREC** Emergency: 800.424.9300 Business: 800.262.8200 **US DOT Pipeline and Hazardous Materials Safety Administration (PHMSA)** Haz-Mat: 800.467.4922 Pipeline: 202.366.4595 Bryan Harris P.O. Box 157 Volga, WV 26238 304-553-6087	**Primary Spill Response Company:** Ryan Environmental, Inc. **EMERGENCY PHONE: 800.649.5578** BUSINESS: 304.842.5578 Route 4 Box 260, 76E Bridgeport, WV 26330 **Secondary Spill Response Company:** Miller Environmental Inc. **EMERGENCY PHONE 1-888-988-8655** 1-304-292-8655 514 Hartman Run Road Morgantown, WV 26505 **Primary Well Emergency Response Company:** Wild Well Control **EMERGENCY PHONE: 281-784-4700** BUSINESS PHONE: 281-784-4700 2002 Oil Center Court Houston, TX 77073 Michael Wilford/ PA Safety Coordinator **Secondary Well Emergency Response Company:** Boots & Coots **EMERGENCY PHONE: 1-281-931-8884 or 800-256-9688** BUSINESS PHONE: same as above 10200 Bellaire Blvd. Houston, TX 77072 **Primary Hazardous Waste Disposal Company:** NAME: Ryan Environmental, Inc. **EMERGENCY PHONE: 800.649.5578** BUSINESS PHONE: 304.842.5578 ADDRESS Route 4 Box 260, 76E ADDRESS Bridgeport, WV 26330 **Primary Hydrogen Sulfide (H2S) Company:** Safety Consultants; McCulley, Eastham, and Associates **EMERGENCY PHONE: 1-800-556-4227** CONTACT NAME/TITLE: Matt Boggs at 606-922-2066

RECEIVED
Office of Oil and Gas
OCT 13 2015
WV Department of
Environmental Protection

WATER SOURCE LOCATIONS FOR DAVISSON ET UX LEASE ROA128 WELLS

4106691



Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

Professional Energy Consultants
A DIVISION OF SLS LAND SURVEYING INC
SLS Surveyors Engineers Environmental Project Mgmt.

DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	6753	08/21/15	6753WROA128.dwg

TOPO SECTIONS OF:
ROANOKE & WALKERSVILLE, WV 7.5' QUADS

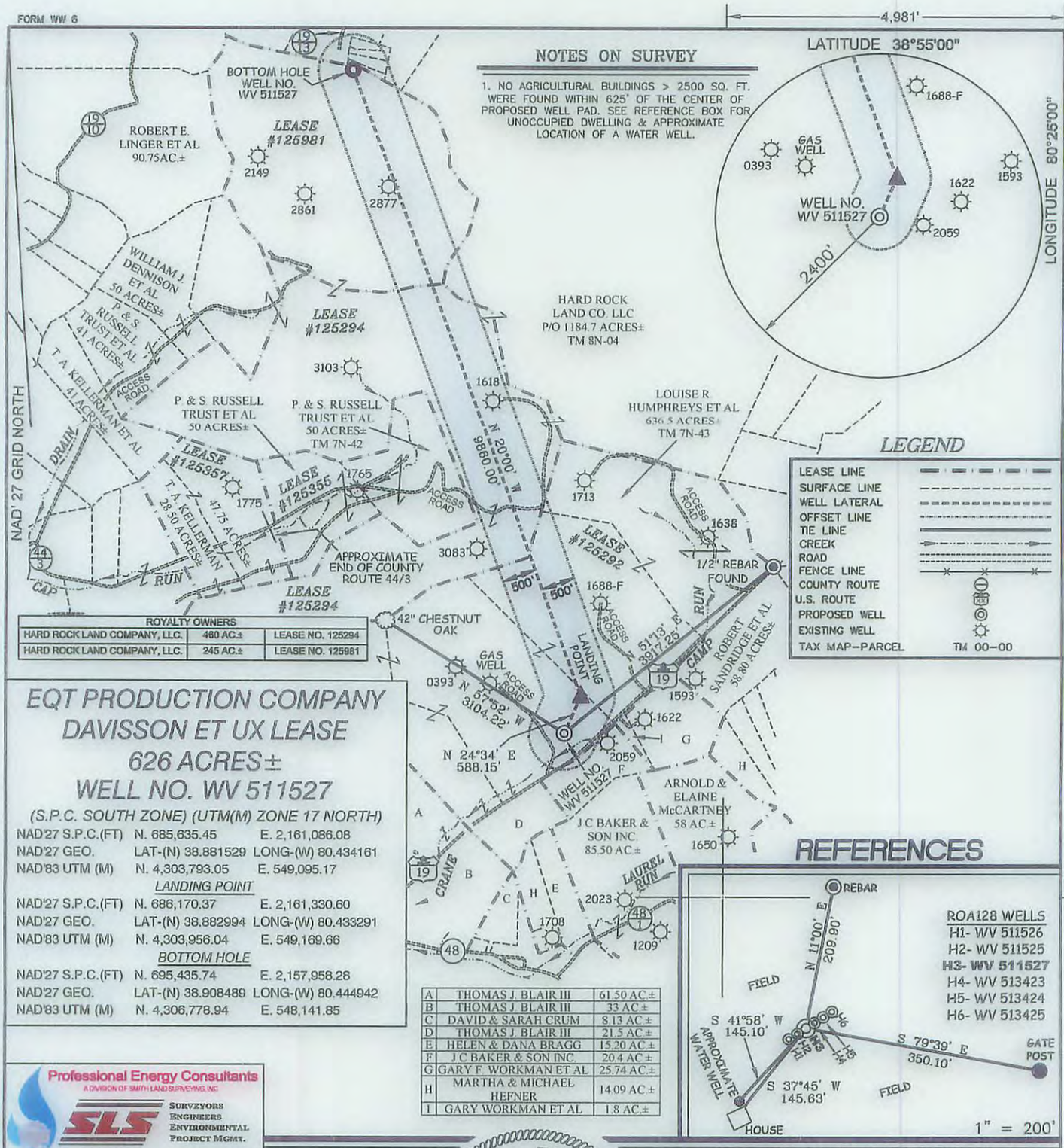
DISTRICT	COUNTY	TAX MAP-PARCEL NO.
COLLINS SETTLEMENT	LEWIS	7N-43

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

FORM WW 6

NOTES ON SURVEY

1. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. SEE REFERENCE BOX FOR UNOCCUPIED DWELLING & APPROXIMATE LOCATION OF A WATER WELL.



ROYALTY OWNERS		
HARD ROCK LAND COMPANY, LLC.	460 AC.±	LEASE NO. 125294
HARD ROCK LAND COMPANY, LLC.	245 AC.±	LEASE NO. 125981

LEGEND

LEASE LINE	
SURFACE LINE	
WELL LATERAL	
OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
FENCE LINE	
COUNTY ROUTE	
U.S. ROUTE	
PROPOSED WELL	
EXISTING WELL	
TAX MAP–PARCEL	TM 00–00

EQT PRODUCTION COMPANY
DAVISSON ET UX LEASE
626 ACRES±
WELL NO. WV 511527

(S.P.C. SOUTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT)	N. 685,635.45	E. 2,161,086.08
NAD'27 GEO.	LAT-(N) 38.881529	LONG-(W) 80.434161
NAD'83 UTM (M)	N. 4,303,793.05	E. 549,095.17
LANDING POINT		
NAD'27 S.P.C.(FT)	N. 686,170.37	E. 2,161,330.60
NAD'27 GEO.	LAT-(N) 38.882994	LONG-(W) 80.433291
NAD'83 UTM (M)	N. 4,303,956.04	E. 549,169.66
BOTTOM HOLE		
NAD'27 S.P.C.(FT)	N. 695,435.74	E. 2,157,958.28
NAD'27 GEO.	LAT-(N) 38.908489	LONG-(W) 80.444942
NAD'83 UTM (M)	N. 4,306,778.94	E. 548,141.85

A	THOMAS J. BLAIR III	61.50 AC.±
B	THOMAS J. BLAIR III	33 AC.±
C	DAVID & SARAH CRUM	8.13 AC.±
D	THOMAS J. BLAIR III	21.5 AC.±
E	HELEN & DANA BRAGG	15.20 AC.±
F	J C BAKER & SON INC.	20.4 AC.±
G	GARY F. WORKMAN ET AL	25.74 AC.±
H	MARTHA & MICHAEL HEFNER	14.09 AC.±
I	GARY WORKMAN ET AL	1.8 AC.±

REFERENCES

ROA128 WELLS
H1- WV 511526
H2- WV 511525
H3- WV 511527
H4- WV 513423
H5- WV 513424
H6- WV 513425

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.
SLS
SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
(304) 462-5634 WWW.SLSSURVEYS.COM

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

P.S. 2288 *Earl N. Thompson*

EARL N. THOMPSON LICENSED No. 2288 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE MAY 20 , 20 11

REVISED 11/07/14, 04/27/15 & 08/27/15

OPERATORS WELL NO. WV 511527

API WELL NO. 47 — 041 — 05698 H6A
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 6753P511527R5

SCALE 1" = 2000'

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

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

WELL TYPE: OIL ____ GAS X LIQUID INJECTION ____ WASTE DISPOSAL ____ IF "GAS" PRODUCTION X STORAGE ____ DEEP ____ SHALLOW X

LOCATION :

ELEVATION 1157'(GROUND)1150'(PROPOSED) WATERSHED CRANE CAMP RUN OF WEST FORK RIVER

DISTRICT COLLINS SETTLEMENT COUNTY LEWIS QUADRANGLE ROANOKE 7.5'

SURFACE OWNER LOUISE R. HUMPHREYS ET AL ACREAGE 636.5±

ROYALTY OWNER LOUISE R. HUMPHREYS ET AL ACREAGE 626±

PROPOSED WORK : LEASE NO. 125292

DRILL X CONVERT ____ DRILL DEEPER ____ REDRILL ____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ____ PERFORATE NEW FORMATION ____ PLUG AND ABANDON ____ CLEAN OUT AND REPLUG ____ OTHER ____

PHYSICAL CHANGE IN WELL (SPECIFY) ____ TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TVD 6,781'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT

04105698

WW-6A1
(5/13)

Operator's Well No. 511527

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

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

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
125292			Min 1/8 pd	
	George I. Davission, et ux	Equitable Gas Company		DB 254/586
	Equitable Gas Company	Equitrans, Inc.		AB 468/325
	Equitrans Inc.	EQT Production Company		AB 192/19 Doddridge
125294			Min 1/8 pd	
	Hunter M. Bennett, et al.	Equitable Gas Company		DB 255/307
	Equitable Gas Company	Equitrans, Inc.		AB 468/325
	Equitrans Inc.	EQT Production Company		AB 192/19 Doddridge
125981			Min 1/8 pd	
	Earl J. Linger, et ux.	Equitable Gas Company		DB 306/452
	Equitable Gas Company	Equitrans, Inc.		AB 468/325
	Equitrans Inc.	EQT Production Company		AB 192/19 Doddridge

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

Received
SEP - 8 2015

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

Office of Oil and Gas
WV Dept. of Environmental Protection

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

WW-6AC
(1/12)

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

04105698

Date of Notice Certification: _____

API No. 47 - 041 - 0
Operator's Well No. 511527
Well Pad Name: ROA128

Notice has been given:

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

State:	WV	UTM NAD 83 Easting:	549,095.17
County:	Lewis	UTM NAD 83 Northing:	4,303,793.05
District:	Collins Settlement	Public Road Access:	RT 19
Quadrangle:	Roanoke 7.5'	Generally used farm name:	Louis R. Humphreys et al
Watershed:	Crane Camp Run of West Fork River		

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:	OOG OFFICE USE ONLY
*PLEASE CHECK ALL THAT APPLY	
☐ NOTICE OF SEISMIC ACTIVITY or ☑ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/NOT REQUIRED
☐ NOTICE OF ENTRY FOR PLAT SURVEY or ☑ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☑ NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	☐ RECEIVED/NOT REQUIRED
☑ NOTICE OF PLANNED OPERATION	☐ RECEIVED
☑ PUBLIC NOTICE	☐ RECEIVED
☑ NOTICE OF APPLICATION	☐ RECEIVED

Received
SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Required Attachments:

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

WW-6AC
(1/12)

04105698

Certification of Notice is hereby given:

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

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

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. HEATER
EQT PRODUCTION COMPANY
PO BOX 280
BRIDGEPORT, WV 26330
My commission expires April 07, 2020

NOTARY SEAL

Subscribed and sworn before me this 2 day of September, 2015

Rebecca L Heater Notary Public

My Commission Expires 4-7-20

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

SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-6A
(9-13)

API NO. 47 - 041 - 0
OPERATOR WELL NO. 511527
Well Pad Name: ROA128

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 9-2-15 Date Permit Application Filed: 9-2-15

04105698

Notice of:

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

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

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

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

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

☑ SURFACE OWNER(s)
Name: Louise R. Humphreys
Address: Trustee of the Davisson Farms Trust
233 Audrey Drive
Pittsburgh PA 15236

Name:
Address:

☑ SURFACE OWNERS(s) (Road and/or Other Disturbance)
Name: Louise R. Humphreys
Address: Trustee of the Davisson Farms Trust
233 Audrey Drive
Pittsburgh PA 15236

Name:
Address:

☑ SURFACE OWNER(s) (Impoundments/Pits)
Name: Louise R. Humphreys
Address: Trustee of the Davisson Farms Trust
233 Audrey Drive
Pittsburgh PA 15236

☑ COAL OWNER OR LESSEE
Name: Louise R. Humphreys
Address: Trustee of the Davisson Farms Trust
233 Audrey Drive
Pittsburgh PA 15236

☐ COAL OPERATOR
Name:
Address:

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: 0
Address: 0
0
0

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name:
Address:

*Please attach additional forms if necessary

WW-6A
(8-13)

API NO. 47-105-69-8 0
OPERATOR WELL NO. 511527
Well Pad Name: ROA128

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.

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

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)

04105698

API NO. 47 - 041 - 0
OPERATOR WELL NO. 511527
Well Pad Name: ROA128

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.

Received

SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

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.

By: Victoria Roark

Its: Permitting Supervisor

Subscribed and sworn before n 2 day of September, 2015

Rebecca L Heater Notary Public

My Commission Expi 4-7-20

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. HEATER
EQT PRODUCTION COMPANY
PO BOX 280
BRIDGEPORT, WV 26330
My commission expires April 07, 2020

Received

SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

SMITH LAND SURVEYING, INC. P.O. BOX 150, GLENVILLE, WV 26351
(304) 462-5634 • FAX 462-5656

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: *EQT Production Company*
LEASE NAME AND NUMBER: *ROA 128 Well Pad*

COMMENTS

The initial field and/or mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 2500' of the proposed well site. (For location of each site see attached area map.)

INDIVIDUAL CONTACTED OR NOTIFIED

Site: *1* Spacing *2685'* Owner/Occupant: *Elaine Mccartney*
Address: *413 laurel run rd. Crawford, WV 26343* Ph: *(304)-452-8722*
Field Contact Date: *7/10/14* Located: *Yes* Date Located: *7/10/14* Source: *Water Well*
If No, declined by who _____ Letter/Notice Date: 1st *N/A* 2nd *N/A* Certified (3rd) *N/A*
Comments: *Northing : 38.876999*
Easting : 80.426595

Site: *2* Spacing *2815'* Owner/Occupant: *Elaine Mccartney*
Address: *413 laurel run rd. Crawford, WV 26343* Ph: *(304)-452-8722*
Field Contact Date: *7/10/14* Located: *Yes* Date Located: *7/10/14* Source: *Pond*
If No, declined by who _____ Letter/Notice Date: 1st *N/A* 2nd *N/A* Certified (3rd) *N/A*
Comments: *Northing : 38.876496*
Easting : 80.426527

Site: *3* Spacing *2800'* Owner/Occupant: *Elaine Mccartney*
Address: *413 laurel run rd. Crawford, WV 26343* Ph: *(304)-452-8722*
Field Contact Date: *7/10/14* Located: *Yes* Date Located: *7/10/14* Source: *Creek*
If No, declined by who _____ Letter/Notice Date: 1st *N/A* 2nd *N/A* Certified (3rd) *N/A*
Comments: *Northing : 38.876011*
Easting : 80.427202

Site: *4* Spacing *3090'* Owner/Occupant: *Jerry and Martha Hefner*
Address: *611 Crawford rd. Crawford, WV 26343* Ph: *(304)-452-8961*
Field Contact Date: *7/10/14* Located: *Yes* Date Located: *7/10/14* Source: *Water Well*
If No, declined by who _____ Letter/Notice Date: 1st *N/A* 2nd *N/A* Certified (3rd) *N/A*
Comments: *Northing : 38.873153*
Easting : 80.435586

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

Site: 5 Spacing 3590' Owner/Occupant: T.J. Blaire The third
Address: 1331 Mt. Vernon Place Charleston, WV 25314 Ph: (304)-343-1330
Field Contact Date: 7/10/14 Located: Yes Date Located: 7/10/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A
Comments: Northing : 38.873167
Easting : 80.440632
Note: this water well lay on a section of the property that is rented.

Site: 6 Spacing 3440' Owner/Occupant: T.J. Blaire The third
Address: 1331 Mt. Vernon Place Charleston, WV 25314 Ph: (304)-343-1330
Field Contact Date: 7/10/14 Located: Yes Date Located: 7/10/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A
Comments: Northing : 38.873352
Easting : 80.440019

Site: 7 Spacing 2950' Owner/Occupant: T.J. Blaire The third
Address: 1331 Mt. Vernon Place Charleston, WV 25314 Ph: (304)-343-1330
Field Contact Date: 7/10/14 Located: Yes Date Located: 7/10/14 Source: Pond
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A
Comments: Northing : 38.874361
Easting : 80.438771

Site: 8 Spacing 2195' Owner/Occupant: T.J. Blaire The third
Address: 1331 Mt. Vernon Place Charleston, WV 25314 Ph: (304)-343-1330
Field Contact Date: 7/10/14 Located: Yes Date Located: 7/10/14 Source: Creek
If No, declined by who _____ Letter/Notice Date: 1st N/A 2nd N/A Certified (3rd) N/A
Comments: Northing : 38.877657
Easting : 80.439895

Site: 9 Spacing 2610' Owner/Occupant: David Crum
Address: 457 Crawford Rd. Crawford, WV 26343 Ph: (304)-884-8820
Field Contact Date: 8/26/14 Located: Yes Date Located: 8/26/14 Source: Water Well
If No, declined by who _____ Letter/Notice Date: 1st 7/10/14 2nd N/A Certified (3rd) 7/11/14
Comments: Northing : 38.874726
Easting : 80.436847
Note: Mr. Crum's Water Well Is Inside Garage.

Site: 10 Spacing _____ Owner/Occupant: Ketcham Davis and Louise Humphryes
Address: 233 Audrey drive Pittsburg, PA 15236 Ph: Unknown
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who Letter/Notice Date: 1st 7/10/14 2nd N/A Certified (3rd) 7/11/14
Comments: Tax Map 7N, Parcel 43
Letter of refusal signed: 7/16/14

Received
SEP - 8 2015

6753 ROA-128 EQT.wgerfinal pg 2

Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

Site: 11 Spacing _____ Owner/Occupant: Robert Sandridge
Address: RR1 Box 65 Proctor, WV 26055 Ph: Unknown
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 7/10/14 2nd N/A Certified (3rd) 7/11/14
Comments: No Response to certified letter as of 8/28/14
Tax Map 8N, Parcel 8

Site: 12 Spacing _____ Owner/Occupant: Irene Harper
Address: 481 Crawford road Crawford, WV 26343 Ph: Unknown
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 7/10/14 2nd N/A Certified (3rd) 7/11/14
Comments: No Response to certified letter as of 8/28/14
Tax Map 9999, Parcel 1-1151

Site: 13 Spacing _____ Owner/Occupant: Gary Workman
Address: 15571 US HWY 19 South Walkersville, WV 26447 Ph: Unknown
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 7/10/14 2nd N/A Certified (3rd) 7/11/14
Comments: No Response to certified letter as of 8/28/14
Tax Map 8P, Parcels 3 & 4

Site: 14 Spacing _____ Owner/Occupant: J.C. Baker and Son, INC.
Address: P.O. Box 369 Gassaway, WV 26624 Ph: Unknown
Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
If No, declined by who _____ Letter/Notice Date: 1st 7/10/14 2nd N/A Certified (3rd) 7/11/14
Comments: No Response to certified letter as of 8/28/14
Tax Map 8P, Parcels 2, 12 & 5

Site: 15 Spacing _____ Owner/Occupant: _____
Address: _____ Ph: _____
Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
Comments: _____

Site: 16 Spacing _____ Owner/Occupant: _____
Address: _____ Ph: _____
Field Contact Date: _____ Located: _____ Date Located: _____ Source: _____
If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd) _____
Comments: _____

Received
SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

04105698 RECEIVED JUL 18 2014

SLS SMITH LAND SURVEYING, INC. P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5656

To Whom It May Concern:

Smith Land Surveying, Inc. of Glenville, WV has been contracted by:

EQT Production

To do some preliminary work for a proposed oil and gas well permit application.

Due to 1994 regulations set by the State of West Virginia Division of Environmental Protection, Department of Oil and Gas, operators are required to offer water testing for water wells or other non-public water sources that fall within 1500 feet of the proposed well. The operator is testing within 2500 feet of the well, if they are requested to do so by the resident or owner. This test will only help ensure the water quality control, which in turn benefits you as the resident or landowner.

Since your residence falls within the 2500 foot radius, you are entitled to have your potable water source(s) sampled and analyzed at an independent lab. Your lab analysis results would then be mailed to your home. This is done at no expense to you.

Please notify Smith Land Surveying immediately if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the client and well number may be referenced.

Thank you for your cooperation in this matter. I look forward to hearing from you at your earliest convenience. If you have any questions, please feel free to contact me at:

Smith Land Surveying, Inc.
PO Box 150
Glenville, WV 26351
(304) 462-5634 (voice)
(304) 462-5656 (fax)
E-Mail DMcKee@slssurveys.com

Date: 7/11/14

Left/sent by: Daniel McKee

Well Number: ROA-128 (Job #6753)

Tax Map / Parcel Number: 7N / 43

Lewis County WV

*If you do not have a water well or other non-public water source, please make note of it and include your name and address when you return this sheet.

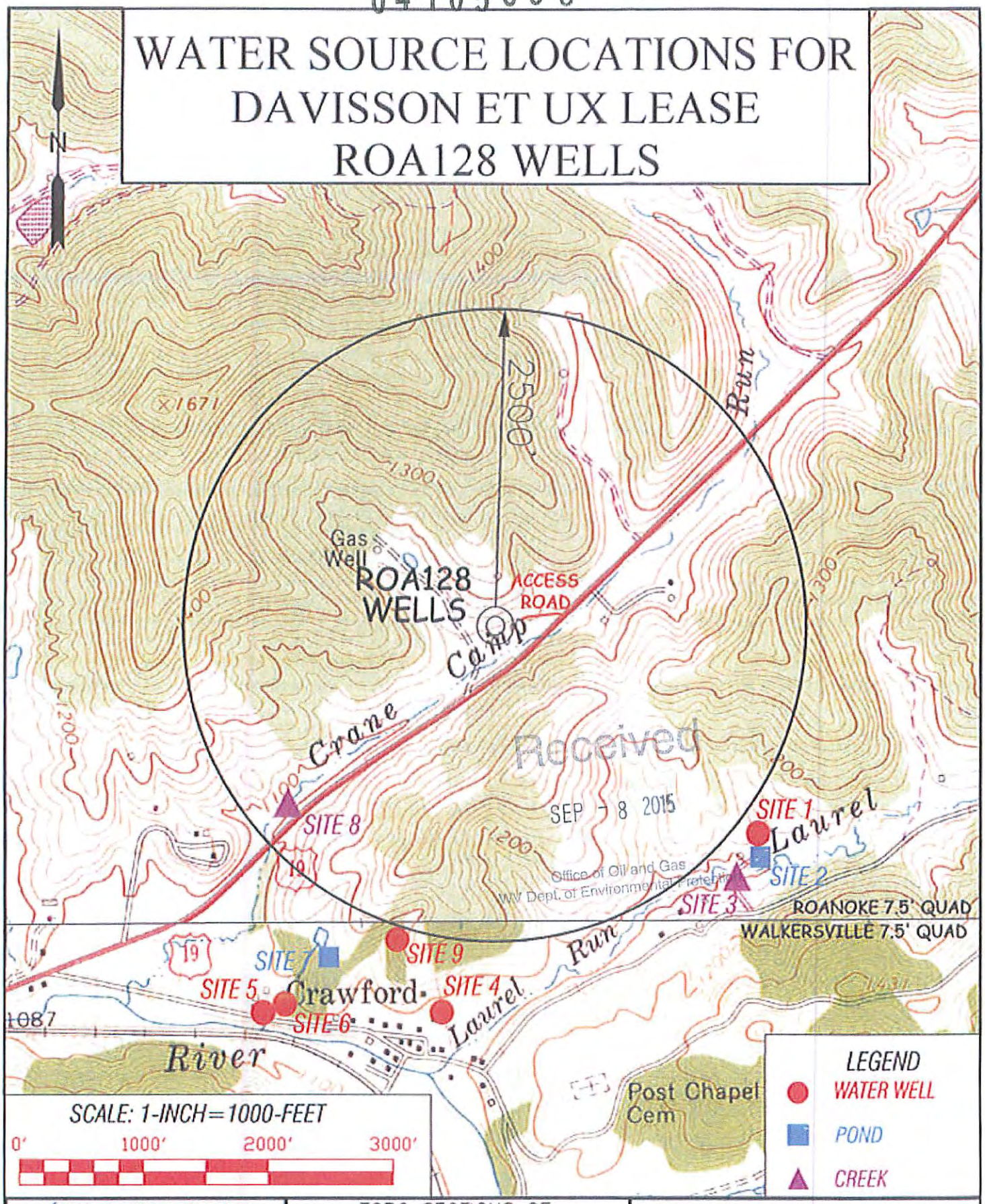
If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined.

Signature: Louise R Humphrey Date: 7/16/14

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

WATER SOURCE LOCATIONS FOR DAVISSON ET UX LEASE ROA128 WELLS



Received
SEP 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

Professional Energy Consultants
A DIVISION OF ENERGY LAND SERVICES INC
SLS Surveyors Engineers Environmental Project Mgmt.

DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	6753	08/21/15	6753WROA128.dwg

TOPO SECTIONS OF:
ROANOKE & WALKERSVILLE, WV 7.5' QUADS

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
COLLINS SETTLEMENT	LEWIS	7N-43

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

WW-6A4
(1/12)

04105698

Operator Well No. 511527

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 8/17/2015 **Date Permit Application Filed:** 8/27/15

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

☐ HAND DELIVERY ☑ CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Louise R. Humphreys
Address: Trustee of the Davisson Farms Trust
233 Audrey Drive
Pittsburgh PA 15236

Name:
Address:

Received
SEP 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

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

State:	WV	UTM NAD 83	Easting	549,095.17
County:	Lewis		Northing	4,303,793.05
District:	Collins Settlement		Public Road Access:	RT 19
Quadrangle:	Roanoke 7.5'		Generally used farm name:	Louis R. Humphreys et al
Watershed:	Crane Camp Run of West Fork River			

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

Notice is hereby given by:

Well Operator:	EQT Production Company	Authorized Representative:	Victoria Roark
Address:	115 Professional Place, P.O Box 280 Bridgeport, WV 26330	Address:	115 Professional Place, P.O Box 280 Bridgeport, WV 26330
Telephone:	304-848-0076	Telephone:	304-848-0076
Email:	vroark@eqt.com	Email:	vroark@eqt.com
Facsimile:	304-848-0041	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.

04105698

WW-6A5
(1/12)

Operator Well No. 511527

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: 9-2-15 **Date Permit Application Filed:** 9-2-15

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

☑ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND DELIVERY

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

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

Name: Louise R. Humphreys ✓ Name:
Address: Trustee of the Davisson Farms Trust Address:
233 Audrey Drive

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

State:	WV	UTM NAD 83	Easting:	549,095.170000
County:	Lewis		Northing:	4,303,793.050000
District:	Collins Settlement	Public Road Access:		RT 19
Quadrangle:	Roanoke 7.5'	Generally used farm name:		Louis R. Humphreys et al
Watershed:	Crane Camp Run of West Fork River			

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

Well Operator:	EQT Production Company	Address:	115 Professional Place, P.O. Box 280
Telephone:	304-848-0082		Bridgeport, WV 26330
Email:	vroark@eqt.com	Facsimile:	304-848-0040

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
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

KEELY CUNNINGHAM
EQT PRODUCTION CO ATTN:KEELY CUNNINGHAM
115 PROFESSIONAL PLACE
BRIDGEPORT, WV 26330-4509

Cynthia S. Rowan
LEWIS County 03:38:34 PM
Instrument No 78370
Date Recorded 03/19/2015
Document Type AGMTD
Pages Recorded 2
Book-Page 691-492
Recording Fee $5.00
Additional $6.00

04105698

WW-6RW
(1-12)

API NO. 47- 041 -
OPERATOR WELL NO. WV 511527
Well Pad Name: ROA128

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

WELL LOCATION RESTRICTION WAIVER

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

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements.

WAIVER

I, Louise R. Humphreys, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	549,091.2
County:	Lewis	UTM NAD 83 Northing:	4,303,784.5
District:	Collins Settlement	Public Road Access:	U.S. Rt. 19
Quadrangle:	Roancke 7.5	Generally used farm name:	Davisson
Watershed:	Crane Camp Run of West Fork		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED
*Please check all that apply

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

FOR EXECUTION BY A NATURAL PERSON
Signature: Louise R Humphreys for DAVISSON FARMS
Print Name: LOUISE R HUMPHREYS
Date: 2/23/15

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

Well Operator: EQT Production
By: John W Damato
Its: Regional Land Director
Signature:
Telephone: 304-848-0082

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Angela Tyler, Notary Public
Pleasant Hills Boro, Allegheny County
My Commission Expires Jan. 15, 2018

Subscribed and sworn before me this 23 day of February
Notary Public
My Commission Expires 15-JAN-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
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

STATE OF WEST VIRGINIA;
COUNTY OF HARRISON:

I, Shannon K Cunningham, a Notary Public, in and for said State and County, do hereby certify that John W. Damato, personally known to be the Attorney in Fact of EQT Production Company, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be their free act and deeds for uses and purposes therein set forth.

Given under my hand this 12th day of March, 2015.

My Commission Expires: August 21, 2022.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Shannon K Cunningham
1028 Sassafras Run Road
Weston, WV 26452
My Commission Expires August 21, 2022

Shannon K Cunningham
Notary

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

04105698

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

July 31, 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 ROA 128 Pad Site, Lewis County

511525 ROA128H1	511526 ROA128H2	511527 ROA128H3
513423 ROA128H4	513424 ROA128H5	513425 ROA128H6

Dear Mr. Martin,

This well site will be accessed from Permit #07-2015-0264 issued to EQT Production Company for access to the State Road. The well site is located off of US Route 19 in Lewis County.

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

Very Truly Yours,

Gary K. Clayton

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

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-7,
File

Received

SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

E.E.O./AFFIRMATIVE ACTION EMPLOYER

04105698

Anticipated Frac Additives

Chemical Names and CAS numbers

Material	Ingredient	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

Received

SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

ROA 128
EQT PRODUCTION COMPANY
(PROPOSED WELL NO. WV 511526, WV 511525, WV 511527, WV 513423 WV 513424, WV 513425)

SITUATED ON THE WATERS OF CRANE CAMP RUN IN COLLINS SETTLEMENT DISTRICT, LEWIS COUNTY, WEST VIRGINIA

PROJECT INFORMATION

PROJECT NAME: ROA 128 H1-H8

TAX PARCEL:
COLLINS SETTLEMENT DISTRICT, LEWIS COUNTY, WV
TAX MAP 7-N PARCEL 43

SURFACE OWNER:
LOUISE R. HUMPHREYS, ET AL
LEWIS COUNTY, WV
TOTAL PROPERTY AREA: 636.5 ACRES±

OIL AND GAS ROYALTY OWNER:
GEORGE KETCHAM ET AL
TOTAL PROPERTY AREA: 626.0 ACRES±

SITE LOCATION:
THE ROA 128 WELL SITE IS SITUATED ON THE WATERS OF CRANE CAMP RUN AND ON THE WEST SIDE OF U.S. ROUTE 19. THE ENTRANCE IS LOCATED APPROXIMATELY 0.94 MILES NORTHEAST OF THE INTERSECTION OF U.S ROUTE 19 & COUNTY ROUTE 48.

Bryan Harris
10-5-15

LOCATION COORDINATES

ROA 128 WELL SITE ENTRANCE
LATITUDE: 38.881680 LONGITUDE: -80.432056 (NAD 83)

ROA 128 CENTER OF WELL PAD
LATITUDE: 38.881493 LONGITUDE: -80.433925 (NAD 83)

ROA 128 FLOWBACK PIT
LATITUDE: 38.882193 LONGITUDE: -80.434940 (NAD 83)

ROA 128 FLOWBACK MANIFOLD PAD
LATITUDE: 38.882525 LONGITUDE: -80.435340 (NAD 83)

ROA 128 COMPLETION PIT
LATITUDE: 38.882201 LONGITUDE: -80.437232 (NAD 83)

ROA 128 COMPLETION PIT MANIFOLD PAD
LATITUDE: 38.880656 LONGITUDE: -80.436221 (NAD 83)

SITE DISTURBANCE COMPUTATIONS

ACCESS ROADS NO. 1, NO. 2 & RIG FOOTPRINT = 4.88 AC. TOTAL
FLOWBACK PIT, ACCESS ROAD NO. 4 & NO. 5, TOPSOIL STORAGE SITEA NO. 1 = 4.63 AC. TOTAL
ACCESS ROAD NO 3, COMPLETION PIT & TOPSOIL STORAGE SITE #2 = 5.66 AC. TOTAL
ACCESS ROAD NO. 6 = 0.08 AC. TOTAL
TOTAL DISTURBED AREA = 15.45 AC. TOTAL

ENTRANCE PERMIT

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

MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #13081762343. IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT IS LOCATED IN FEMA FLOOD ZONE X, PER THE FLOOD INSURANCE RATE MAP (FIRM) NUMBER 54041c025oe, DATED APRIL 19, 2010

ENVIRONMENTAL NOTES

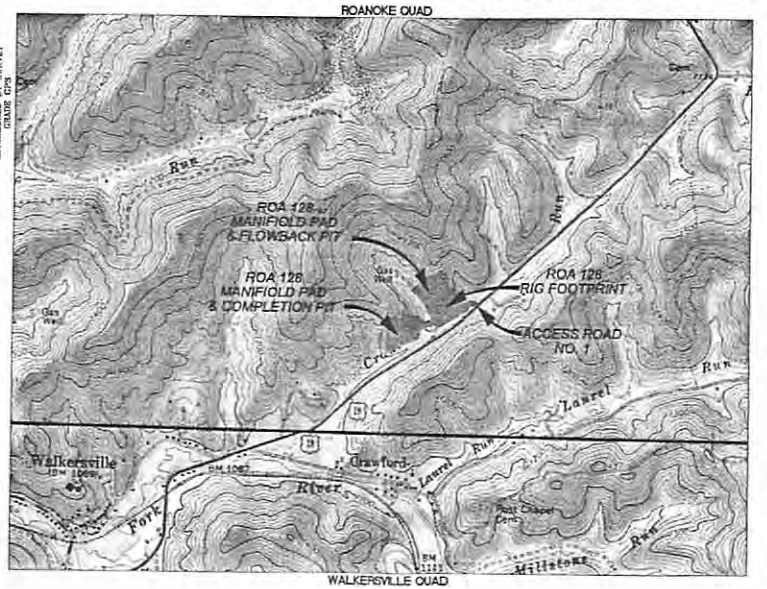
A WETLAND DELINEATION WAS PERFORMED ON APRIL 25-26, 2013 BY POTESTA AND ASSOCIATES, INC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE MAY 29, 2013 REPORT PROJECT # 0101-11-147-15701 WAS PREPARED BY POTESTA AND ASSOCIATES, INC. SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION DESCRIBED BY THIS REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS. THE DELINEATION DATES ARE: 03/23/2011, 05/24/2012, 03/07/2014, 03/11/2014, 03/13/2014, 01/12/2015, AND 04/22/2015.

HORIZONTAL & VERTICAL CONTROL

LATITUDES, LONGITUDES AND ELEVATIONS USED FOR ALL LAYOUTS AND DESIGNS WERE BASED UPON MAPPING FURNISHED BY SMITH LAND SURVEYING.

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

GRID NORTH AND ELEVATIONS SHOWN HEREON WERE OBTAINED FROM SURVEY GRADE GPS



1000 0 1000
SCALE: 1" = 1000'

LIST OF DRAWINGS

1 - COVER SHEET
2 - NOTES
3 - OVERALL SHEET INDEX & VOLUMES
4 - EXISTING UTILITY LAYOUT PLAN
5 - ACCESS ROADS PLAN
6 - RIG FOOTPRINT PLAN
7 - FLOWBACK PIT PLAN VIEW
8-9-10 - FLOWBACK PIT SECTIONS
11 - COMPLETION PIT PLAN VIEW
12 - COMPLETION PIT SECTIONS
13 - ACCESS ROAD NO. 2 PROFILES & SECTIONS
14 - ACCESS ROAD NO. 3 PROFILE & SECTIONS
15 - ACCESS ROAD NO. 4 PROFILE & SECTIONS
16 - ACCESS ROAD NO. 5 PROFILE & SECTIONS
17 - ACCESS ROADS HORIZONTAL CONTROL
18 - RIG FOOTPRINT SECTIONS
19 - STREAM CROSSINGS
20 - MANIFOLD PAD & FLOWBACK PIT RECLAMATION PLAN
21 - MANIFOLD PAD & COMPLETION PIT RECLAMATION PLAN
22-29 - DETAILS

RECEIVED
Office of Oil and Gas
OCT 13 2015
WV Department of Environmental Protection

LEGEND

EX. INDEX CONTOUR
EX. INTERMEDIATE CONTOUR
EX. BOUNDARY LINE
EX. ROAD EDGE OF GRAVEL/DIRT
EX. ROAD EDGE OF PAVEMENT
EX. ROAD CENTERLINE
EX. DITCHLINE
EX. CULVERT
EX. GUARDRAIL
EX. FENCELINE
EX. GATE
EX. OVERHEAD UTILITY
EX. OVERHEAD UTILITY R/W
EX. POWER POLE
EX. GUY WIRE
EX. TELEPHONE LINE
EX. GASLINE
EX. GASLINE R/W
EX. WATERLINE
EX. WATER WELL
EX. GAS WELL
EX. TREELINE
EX. REFERENCE TREE
EX. DELINEATED STREAM
EX. DELINEATED WETLAND
EX. BUILDING
EX. BRIDGE
100' WETLAND/STREAM BUFFER

PROP. INDEX CONTOUR
PROP. INTERMEDIATE CONTOUR
PROP. GRADING LIMITS
PROP. LIMITS OF DISTURBANCE
PROP. WELL PAD
PROP. WELL HEAD
PROP. 4" PVC DRAIN PIPE
PROP. SUMP DRAIN
PROP. CONTAINMENT BERM
PROP. PIT/IMPOUNDMENT CL
PROP. PERIMETER SAFETY FENCE
PROP. ACCESS GATE WITH EMERGENCY LIFELINE
PROP. ROCK CONSTRUCTION ENTRANCE
PROP. ROAD EDGE OF GRAVEL
PROP. ROAD CENTERLINE
PROP. V-DITCH W/ CHECK DAMS
PROP. DITCH RELIEF CULVERT (DRC)
PROP. RIP-RAP OUTLET PROTECTION
PROP. GUARDRAIL
PROP. ROCK LEVEL SPREADER
PROP. EARTHEN DIVERSION BERM
PROP. ORANGE SAFETY FENCE
PROP. SUPER SILT FENCE
PROP. COMPOST FILTER SOCK
PROP. CONTAINMENT FENCE
PROP. GROUNDWATER DEWATERING TRENCH
PROP. GROUNDWATER DEWATERING PIPE
SECTION LINE
MATCHLINE
X-SECTION GRID INDEX
X-SECTION GRID INTERMEDIATE
X-SECTION PROPOSED GRADE
X-SECTION EXISTING GRADE
X-SECTION WATER SURFACE
SPOT ELEVATION
CENTER OF PAD

OPERATOR

EQT PRODUCTION COMPANY
OPERATOR ID: 306686
115 PROFESSIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26330
PHONE: (304) 348-3670

ENGINEER

RK&K ENGINEERS
240 NORTH TORNADO WAY
SUITE 1
KEYSER, WV 26726
PHONE: (304) 788-3370

SURVEYOR

SMITH LAND SURVEYING, INC.
12 VANHORN DRIVE
P.O. BOX 150
GLENVILLE, WV 26351
PHONE: (304) 462-5634

RUMMEL, KLEPPER & KAHL, LLP
240 NORTH TORNADO WAY, SUITE 1
KEYSER, WEST VIRGINIA 26726
T - 304.788.3370 F - 304.788.3377
www.rkk.com
RK&K ENGINEERS

Professional Energy Consultants
SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
www.slsservices.com

DAVID G. VANSCOY REGISTERED STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

THIS DOCUMENT WAS PREPARED BY RK&K ENGINEERS FOR: EQT PRODUCTION COMPANY

COVER SHEET
ROA 128
COLLINS SETTLEMENT DISTRICT
LEWIS COUNTY, WV

DATE: 04/24/2015
SCALE: 1" = 2000'
DESIGNED BY: HWH
JOB NO. 6753
SHEET 1 OF 28
REV: 09/02/2015

04105698

ROA 128
EQT PRODUCTION COMPANY
(PROPOSED WELL NO. WV 511526, WV 511525, WV 511527, WV 513423 WV 513424, WV 513425)

SITUATED ON THE WATERS OF CRANE CAMP RUN IN COLLINS SETTLEMENT DISTRICT, LEWIS COUNTY, WEST VIRGINIA

PROJECT INFORMATION

PROJECT NAME: ROA 128 H1-H6

TAX PARCEL:
COLLINS SETTLEMENT DISTRICT, LEWIS COUNTY, WV
TAX MAP 7-N PARCEL 43

SURFACE OWNER:
LOUISE R. HUMPHREYS ET AL
LEWIS COUNTY, WV
TOTAL PROPERTY AREA: 638.5 ACRES±

OIL AND GAS ROYALTY OWNER:
GEORGE KETCHAM ET AL
TOTAL PROPERTY AREA: 628.0 ACRES±

SITE LOCATION:
THE ROA 128 WELL SITE IS SITUATED ON THE WATERS OF CRANE CAMP RUN AND ON THE WEST SIDE OF U.S. ROUTE 19. THE ENTRANCE IS LOCATED APPROXIMATELY 0.84 MILES NORTHEAST OF THE INTERSECTION OF U.S ROUTE 19 & COUNTY ROUTE 48.

LOCATION COORDINATES

ROA 128 WELL SITE ENTRANCE
LATITUDE: 38.881890 LONGITUDE: -80.432058 (NAD 83)

ROA 128 CENTER OF WELL PAD
LATITUDE: 38.881495 LONGITUDE: -80.433858 (NAD 83)

ROA 128 FLOWBACK PIT
LATITUDE: 38.882195 LONGITUDE: -80.434940 (NAD 83)

ROA 128 FLOWBACK MANIFOLD PAD
LATITUDE: 38.882525 LONGITUDE: -80.436340 (NAD 83)

ROA 128 COMPLETION PIT
LATITUDE: 38.880201 LONGITUDE: -80.437222 (NAD 83)

ROA 128 COMPLETION PIT MANIFOLD PAD
LATITUDE: 38.880856 LONGITUDE: -80.438221 (NAD 83)

SITE DISTURBANCE COMPUTATIONS

ACCESS ROADS NO. 1, NO. 2 & RIG FOOTPRINT = 4.86 AC. TOTAL
FLOWBACK PIT, ACCESS ROAD NO. 4 & NO. 5, TOPSOIL STORAGE SITES NO. 1 = 4.83 AC. TOTAL
ACCESS ROAD NO. 3, COMPLETION PIT & TOPSOIL STORAGE SITE #2 = 6.66 AC. TOTAL
ACCESS ROAD NO. 6 = 0.06 AC. TOTAL
TOTAL DISTURBED AREA = 16.46 AC. TOTAL

ENTRANCE PERMIT

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

MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN; TICKET #1326178283. IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT IS LOCATED IN FEMA FLOOD ZONE X, PER THE FLOOD INSURANCE RATE MAP (FIRM) NUMBER 54041C0250E, DATED APRIL 19, 2010.

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON APRIL 25-26, 2013 BY POTESTA AND ASSOCIATES, INC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE MAY 26, 2013 REPORT PROJECT # 0101-11-147-15701 WAS PREPARED BY POTESTA AND ASSOCIATES, INC. SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION DESCRIBED BY THIS REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS. THE DELINEATION DATES ARE: 03/25/2011, 05/24/2012, 08/07/2014, 05/11/2014, 08/13/2014, 01/12/2015, AND 04/23/2015.

HORIZONTAL & VERTICAL CONTROL

LATITUDES, LONGITUDES AND ELEVATIONS USED FOR ALL LAYOUTS AND DESIGNS WERE BASED UPON MAPPING FURNISHED BY SMITH LAND SURVEYING.

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

SCALE: 1" = 1000'

APPROVED WVDEP OOG 12/15/2015

LIST OF DRAWINGS

1 - COVER SHEET
2 - NOTES
3 - OVERALL SHEET INDEX & VOLUMES
4 - EXISTING UTILITY LAYOUT PLAN
5 - ACCESS ROADS PLAN
6 - RIG FOOTPRINT PLAN
7 - FLOWBACK PIT PLAN VIEW
8-9-10 - FLOWBACK PIT SECTIONS
11 - COMPLETION PIT PLAN VIEW
12-15 - COMPLETION PIT SECTIONS
16 - ACCESS ROADS NO. 1 - NO. 2 PROFILES & SECTIONS
17 - ACCESS ROAD NO. 3 PROFILE & SECTIONS
18 - ACCESS ROAD NO. 4 PROFILE & SECTIONS
19 - ACCESS ROADS NO. 5 PROFILE & SECTIONS
20 - ACCESS ROADS HORIZONTAL CONTROL
21 - RIG FOOTPRINT SECTIONS
22 - STREAM CROSSINGS
23 - MANIFOLD PAD & FLOWBACK PIT RECLAMATION PLAN
24 - MANIFOLD PAD COMPLETION PIT RECLAMATION PLAN
25-29 - DETAILS

LEGEND

Existing	Proposed
EX. INDEX CONTOUR	PROP. INDEX CONTOUR
EX. INTERMEDIATE CONTOUR	PROP. INTERMEDIATE CONTOUR
EX. BOUNDARY LINE	PROP. GRADING LIMITS
EX. ROAD EDGE OF GRAVEL/DIRT	PROP. LIMITS OF DISTURBANCE
EX. ROAD EDGE OF PAVEMENT	PROP. WELL PAD
EX. ROAD CENTERLINE	PROP. WELL HEAD
EX. DITCHLINE	PROP. 4" PVC DRAIN PIPE
EX. CULVERT	PROP. SUMP DRAIN
EX. GUARDRAIL	PROP. CONTAINMENT BERM
EX. FENCELINE	PROP. PIT/IMP-SUNDAMENT EL
EX. GATE	PROP. PERIMETER SAFETY FENCE
EX. OVERHEAD UTILITY	PROP. ACCESS GATE WITH EMERGENCY LIFELINE
EX. OVERHEAD UTILITY R/W	
EX. POWER POLE	
EX. GUY WIRE	
EX. TELEPHONE LINE	
EX. GASLINE	
EX. GASLINE R/W	PROP. ROCK CONSTRUCTION ENTRANCE
EX. WATERLINE	
EX. WATER WELL	
EX. GAS WELL	
EX. TREELINE	
EX. REFERENCE TREE	PROP. ROAD EDGE OF GRAVEL
EX. DELINEATED STREAM	PROP. ROAD CENTERLINE
EX. DELINEATED WETLAND	PROP. V-DITCH W/ CHECK DAMS
EX. BUILDING	PROP. DITCH RELIEF CULVERT (DRC)
	PROP. RIP-RAP OUTLET PROTECTION
EX. BRIDGE	PROP. GUARDRAIL
100' WETLAND/STREAM BUFFER	PROP. ROCK LEVEL SPREADER
	PROP. EARTHEN DIVERSION BERM
	PROP. ORANGE SAFETY FENCE
	PROP. SUPER SILT FENCE
	PROP. COMPOST FILTER SOCK
	PROP. CONTAINMENT FENCE
	PROP. GROUNDWATER DEWATERING TRENCH
	PROP. GROUNDWATER DEWATERING PIPE
	SECTION LINE ("A" 0+00 "A" 0+91)
	MATCHLINE
	X-SECTION GRID INDEX
	X-SECTION GRID INTERMEDIATE
	X-SECTION PROPOSED GRADE
	X-SECTION EXISTING GRADE
	X-SECTION WATER SURFACE
	SPOT ELEVATION (1000.0)
	CENTER OF PAD

OPERATOR
EQT PRODUCTION COMPANY
OPERATOR ID: 306686
115 PROFESSIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26330
PHONE: (304) 348-3870

ENGINEER
RK&K ENGINEERS
242 NORTH TORNADO WAY
SUITE 1
KEYSER, WV 26726
PHONE: (304) 788-3370

SURVEYOR
SMITH LAND SURVEYING, INC.
12 VANHORN DRIVE
P.O. BOX 150
GLENVILLE, WV 26351
PHONE: (304) 462-5634

RK&K ENGINEERS
RUMMEL, KLEPPER & KAHL, LLP
242 NORTH TORNADO WAY, SUITE 1
KEYSER, WEST VIRGINIA 26726
T-304.788.3370 F-304.788.3577
www.rkk.com

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC
SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.
(304) 462-5634
WWW.SLSSURVEYS.COM

DAVID G. VANSCOY REGISTERED PROFESSIONAL ENGINEER STATE OF WEST VIRGINIA

THIS DOCUMENT WAS PREPARED BY: RK&K ENGINEERS FOR: EQT PRODUCTION COMPANY

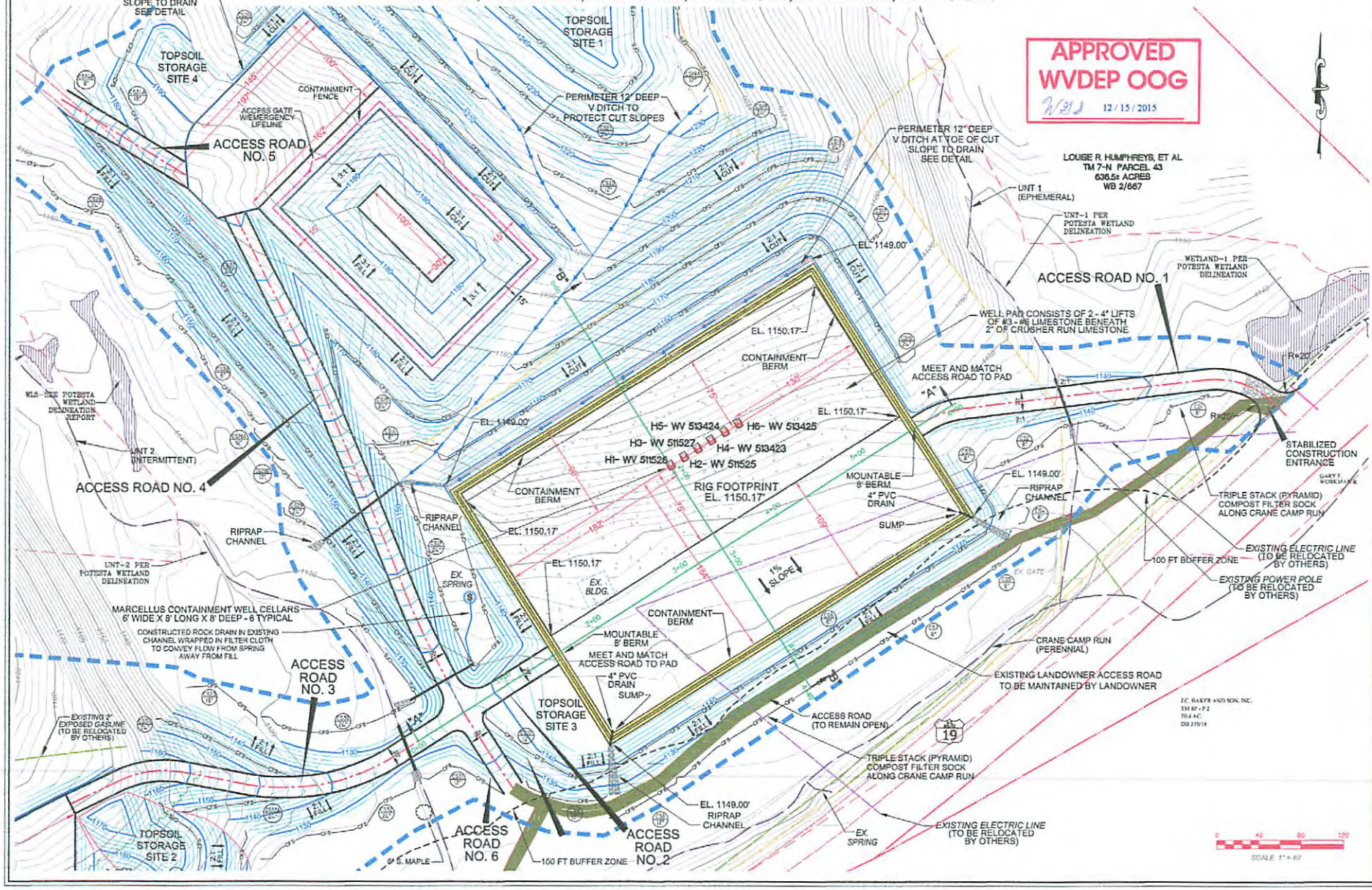
COVER SHEET
ROA 128
COLLINS SETTLEMENT DISTRICT
LEWIS COUNTY, WV

DATE:	04/24/2015
SCALE:	1" = 2000'
DESIGNED BY:	HWH
JOB NO.	6753
SHEET	1 OF 28
REV.:	09/02/2015

RIG FOOTPRINT PLAN

ROA 128 PROPOSED WELLS

H1-WV 511526, H2-WV 511525, H3-WV 511527, H4-WV 513423, H5-WV 513424, H6-WV 513425



RK&K ENGINEERS

RUMMEL, KLEPPER & KAHL, LLP
159 PLAZA DRIVE
KEYSER, WEST VIRGINIA 26726
T - 304.788.3370 F - 304.788.3577
www.rkk.com

Professional Energy Consultants
ADMINISTRATIVE ENGINEERS INC.
SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.
WWW.SLSSURVEYS.COM

THIS DOCUMENT WAS PREPARED BY: RK&K ENGINEERS FOR: EQT PRODUCTION COMPANY

RIG FOOTPRINT PLAN

ROA 128

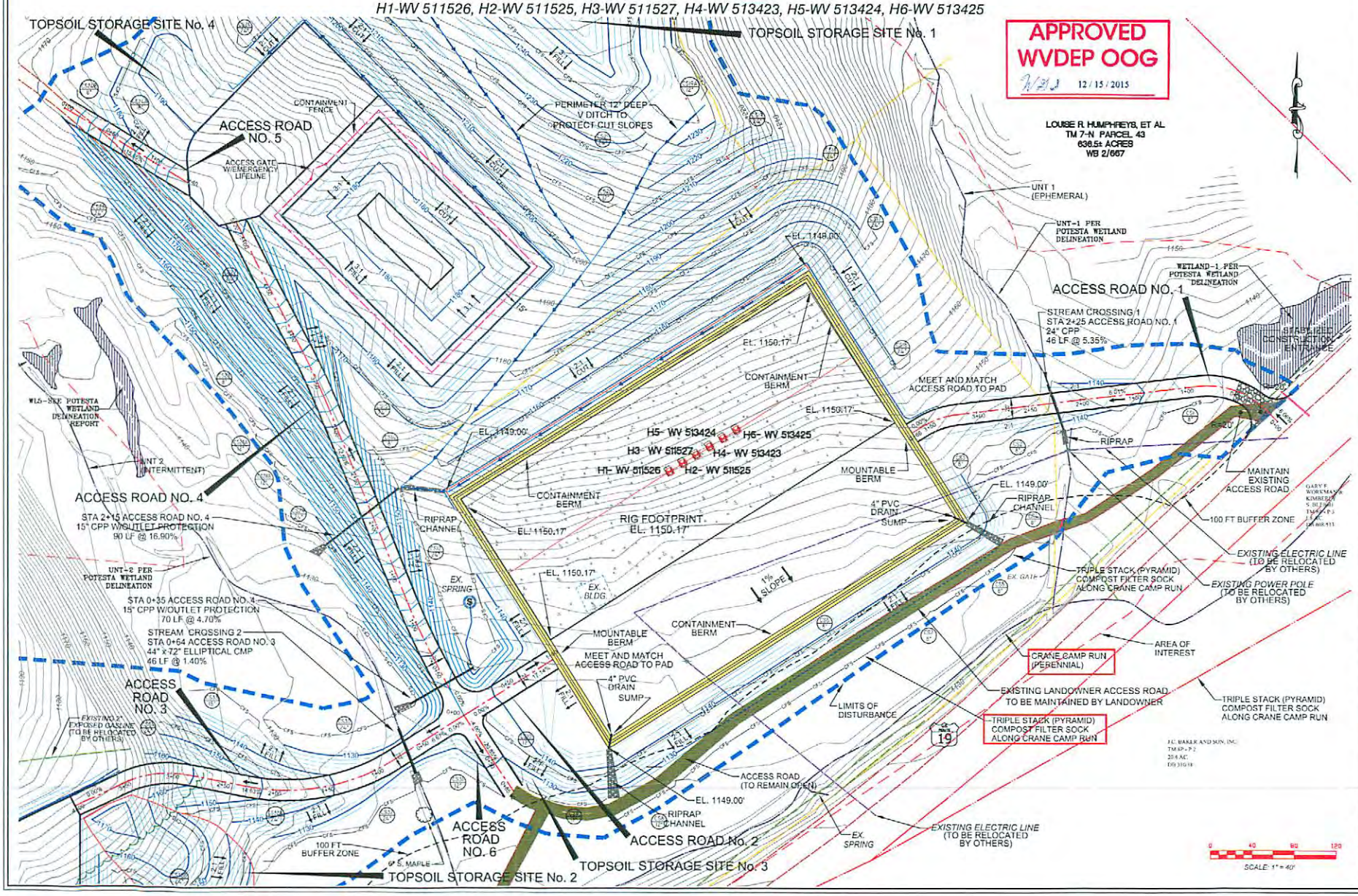
COLLINS SETTLEMENT DISTRICT
LEWIS COUNTY, WV

DATE: 04/28/2015
SCALE: 1" = 40'
DESIGNED BY: HWH
JOB NO. 8753
SHEET 6 OF 28
REV.: 12/11/2015

ACCESS ROADS NO. 1, NO. 2, NO. 3, No. 4, No. 5 & NO. 6 PLAN

ROA 128 PROPOSED WELLS

H1-WV 511526, H2-WV 511525, H3-WV 511527, H4-WV 513423, H5-WV 513424, H6-WV 513425



RUMMEL, KLEPPER & KAHL, LLP
159 PLAZA DRIVE
KEYSER, WEST VIRGINIA 26726
T - 304.788.3373 F - 304.788.3577
WWW.RKK.COM

RK&K ENGINEERS

Professional Energy Consultants
A DIVISION OF SURVEYING AND MAPPING, INC.
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.
SLS
(304) 485-6554
WWW.SLSSURVEYS.COM

THIS DOCUMENT WAS PREPARED BY RK&K ENGINEERS FOR: EQT PRODUCTION COMPANY

ACCESS ROADS PLAN
ROA 128
COLLINS SETTLEMENT DISTRICT
LEWIS COUNTY, WV

DATE: 04/28/2015
SCALE: 1" = 40'
DESIGNED BY: HWH
JOB NO. 6753
SHEET 5 OF 28
REV.: 12/11/2015

04105698

PROFESSIONAL ENERGY CONSULTANTS

A DIVISION OF SMITH LAND SURVEYING, INC.

March 22, 2015

Mr. Steve Moneypenny
Floodplain Manager
201 Orchard Street
Weston, WV 26452

Re: Application for Floodplain Permit-EQT ROA 128 Well Pad

Dear Mr. Moneypenny:

Professional Energy Consultants, aka Smith Land Surveying, Inc. on behalf of its client, EQT Production Company, is hereby making application for a Floodplain Permit for the construction of a well and associated facilities for a site known as ROA 128. The site is situated along U.S. Route 19 in the Collins Settlement District.

Per our telephone conversation on May 19, 2015 the site does not fall in a flood zone according to FEMA FIRM 54041C0250E and the West Virginia Flood Map Tool.

Please find attached the Lewis County Floodplain application, a copy of the WV Flood amp with our location identified and a copy of the proposed site plans.

All other permits for the Army Corps of Engineers, WV NPDES, WV DOH, WV DNR, USFWS and the WV Division of Culture and History for this project and other associated permits have been acquired and/or applied for.

If you have any questions or comments, please let me know.

Sincerely,

Leslie Pierce

Received

SEP - 8 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Cc. Lacoa Corder, EQT
Enclosures

P.O. Box 150, 226 West Main Street, Glenville, WV 26351
T: (304)-462-5634 F: (304)-462-5656

56065 Dilles Bottom Road, Shadyside, OH 43947
T: (740)-671-9911

04105698

Lewis County Floodplain Administration
201 Orchard St. Weston, WV 26452
ph.304-269-6579 fx. 304-269-8203
LCFloodplain@gmail.com

APPLICATION FOR FLOODPLAIN DETERMINATION
Required for ALL development.

ASTERICKS INDICATE REQUIRED INFORMATION Shaded Area for Office Use only.

Application #: _____ Application Date: _____

***STRUCTURE OWNER**

NAME EQT Production Company /Lacoa Corder-Leasee PHONE 304-848-0066
FAX CELL 304-627-9894
ADDRESS 120 Professional Place, Bridgeport, WV 26330

Please email copy of all correspondence to Smith Land Surveying (lpierce@slssurveys.com) and Lacoa Corder (lcorder@eqt.com)

TO WHOM SHOULD CORRESPONDANCE BE MAILED? ☐ PROPERTY OWNER ☑ STRUCTURE OWNER ☐ CONTRACTOR

***PROPERTY OWNER (if same as structure owner, write SAME)**

NAME EQT Production Company, Leasee / Louise Humphreys, ET Al owner PHONE 304-848-0066
FAX CELL 304-627-9894
ADDRESS 120 Professional Place, Bridgeport, WV 26330

PREVIOUS OWNER

***CONTRACTOR (company or person building, filling, erecting a sign, or setting up a manufactured home)**

COMPANY NAME PHONE
FAX CELL
PRESIDENT
ADDRESS
WV CONTRACTOR LICENSE #

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

FOR OPI USE ONLY:
☐ Valid Contractor License on file.
☐ Non Contractor Affidavit on file.
Verified by:

NOTE: If setting up a manufactured home, the following number is also REQUIRED.

* WV MANUFACTURED HOUSING BOARD LICENSE # N/A

***SITE INFORMATION**
*Attach Preliminary Site Plan

SITE ADDRESS Unknown- Lat 39.881680, Lon -80.432056
City Walkersville, WV WV Zip Code 26447
SUBDIVISION NAME OR MANUFACTURED HOME PARK N/A (Collins Settlement District) LOT #
TAX MAP # 7-N PARCEL # 43 LOT SIZE: 636.5 Ac
PRIMARY/COUNTY ROAD ACCESS: WV Route 19
DIRECTIONS TO SITE: The site is situated on the waters of Crane Camp Run and on the west side of U.S. Route 19. The entrance to the site is approximately 0.94 miles from the intersection of U.S Rt 19 and County Rt 48

☐ *911 address obtained. (Form cannot be processed without 911 address)

04105698

TYPE OF DEVELOPMENT:

Check and complete all that apply:

" RESIDENTIAL
- _ Single Family
- _ Manufactured Home
- _ Single Family/Duplex
- _ Multi-family

☐ ADDITION FOR RESIDENTIAL STRUCTURE:
Room(s) _ Porch _ Attached Garage _ Other
- ▪ _ Construction costs are over 50% of the market value of the existing structure
- ▪ _ Construction costs are under 50% of the market value of the existing structure

☐ ACCESSORY: _ Detached Garage _ Fence _ Storage Building _ Other (_____)
☐ COMMERCIAL *(Complete Commercial Section, page 2)*
☐ ADDITION FOR COMMERCIAL STRUCTURE: TYPE OF ADDITION:
- ☐ Construction costs are over 50% of the market value of the existing structure
- ☐ Construction costs are under 50% of the market value of the existing structure

☒ INDUSTRIAL *(Complete Industrial Section, page 2)*
☐ FILL
☐ WATERCOURSE ALTERATION
☐ STREAM CROSSING
☐ TEMPORARY STRUCTURE OR STORAGE
☐ DEVELOPMENT WITHOUT A STRUCTURE (e.g. excavation, grading, etc.)
☐ TELECOMMUNICATIONS TOWER

Contractor Agreement
☐ Reviewed &Return
☐ Not Required

*COST

*ESTIMATED CONSTRUCTION COSTS OF PROJECT (LABOR & MATERIAL): $

COMPLETE THIS SECTION FOR NEW CONSTRUCTION OF: COMMERCIAL, INDUSTRIAL, MULTI-FAMILY, AND/OR LEASE COMMUNITY

WILL THE PROPERTY BE _ LEASED or _ OWNED
NAME OF DEVELOPMENT
_ MULTI-FAMILY:
- _ TOWNHOUSE: NUMBER OF DWELLING UNITS:
- _ APARTMENT: NUMBER OF DWELLING UNITS:
- _ CONDOMINIUM: NUMBER OF DWELLING UNITS:

_ COMMERCIAL: TYPE OF BUSINESS(ES)
NUMBER OF SEPARATE BUSINESSES
▪ INDUSTRIAL: TYPE OF INDUSTRY Oil and Gas
NUMBER OF SEPARATE BUSINESSES
_ LEASE COMMUNITY- COMMUNITY NAME

ALL APPLICATIONS FOR COMMERCIAL, INDUSTRIAL, MULTI-FAMILY, AND FACTORY-BUILT RENTAL COMMUNITY STRUCTURES SHOULD BE ACCOMPANIED BY:

1. Drainage plan and drainage calculations signed by a registered professional engineer
2. Designs of storm water detention facility signed by a registered professional engineer, if applicable
3. WV Division of Highways Access Permit, if access is onto state highway
4. State of WV NPDES General Permit for Storm water Associated with Construction Activity, of land disturbance if over one (1) acre. If land disturbance is less than one (1) acre. Notify DEP, a Sediment Control Plan is recommended.

NOTICE:

I hereby certify that I have read and examined this document and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. Granting of a Certificate of Compliance does not presume to give authority to violate or cancel the provisions of any other federal, state, or local law regulating construction or the performance of construction. Applicant hereby gives the county floodplain manager consent to enter property to inspect for compliance.

A $15.00 Floodplain Determination is due upon the submission of this application. Please make checks payable to Lewis County Commission.

Signature *of Property Owner, Contractor or Other* Jacob Corder *Date* 5/21/15

TO BE COMPLETED BY FLOODPLAIN MANAGER:

Tax District _____ **Tax Map** ____ **Parcel** ____ **FEMA Panel** _____ **Flood Zone**_____ **Floodway** _____

__ AUTHORIZED PRINCIPAL USE Use _____
__ AUTHORIZED ACCESSORY USE Use _____
__ SPECIAL USE Use _____

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

COMMENTS:

*SEE ATTACHMENT FOR CONDITIONS
APPROVED_____ DENIED_____

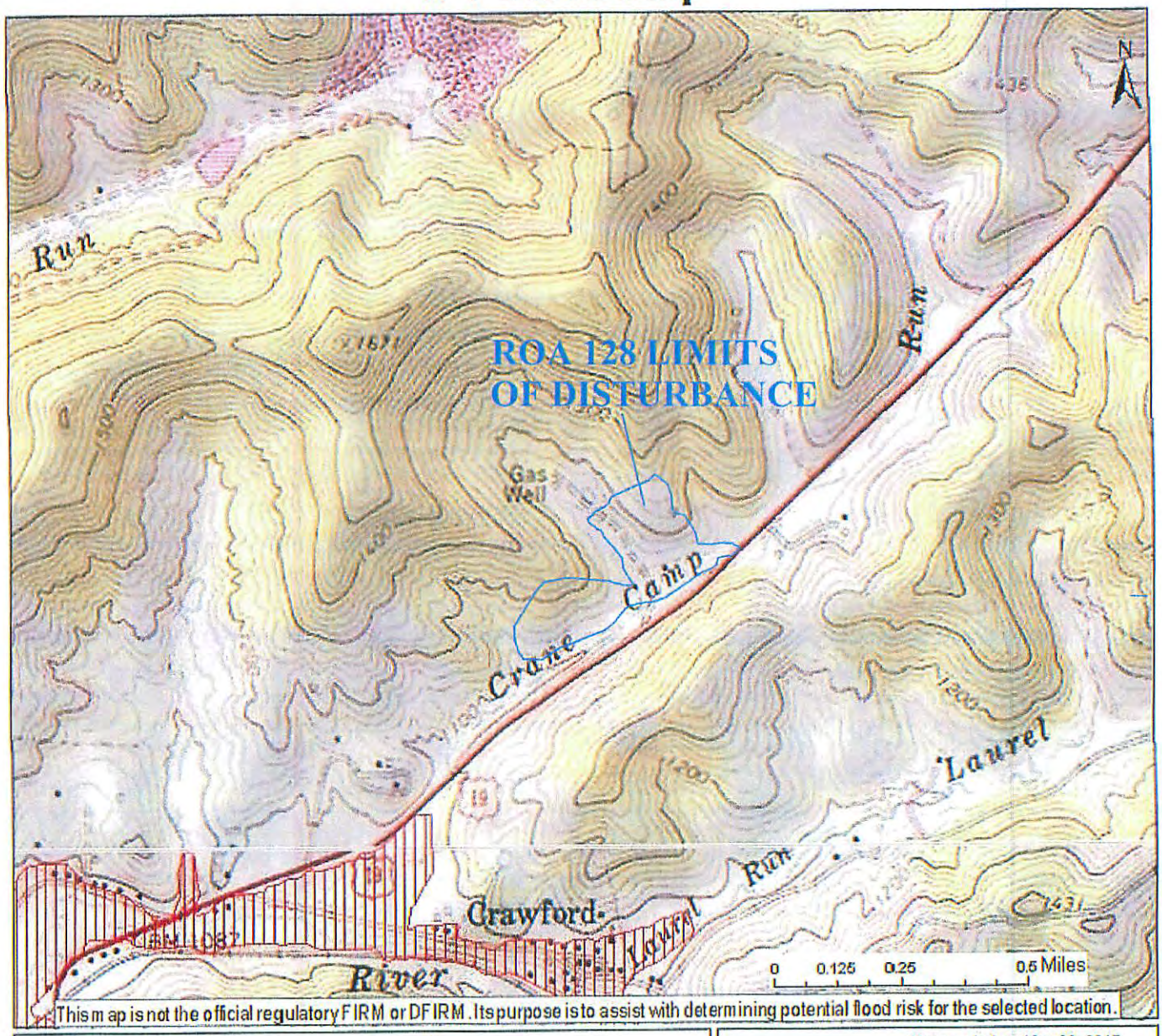
* APP. NUMBER _____

* AUTHORITY : _____

* APPLICATION DATE _____

04105698

WV Flood Map



Location of flood information

User Notes:
EQT ROA 128

Cross Section (XS) Lines

Base Flood Elevation (BFE) Lines

Floodway

Flood Hazard Zone

Approximate Study (Zone A)

Detailed Study (AE, AH, AO)

Disclaimer:
The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
WV Flood Tool (http://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Map created on May 20, 2015

Flood Hazard Area:
Flood Hazard Area

Flood Hazard Zone:
Stream:
FEMA Issued Flood Map:
Watershed (HUC8):
Advisory Flood Height:
Water Depth:
Elevation:
Location (long, lat):
Location (UTM 17N):
Contacts:
CRS Information:
Flood Profile:
HEC-RAS Model:
Parcel Number:

Received
SEP - 8 2015
Office of Oil and Gas
WV Dept. of Environmental Protection