

#### 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

February 09, 2016

#### WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-1706757, 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: 513066

Farm Name: HAESSLY LAND & TIMBER, LLC

API Well Number: 47-1706757

Permit Type: Horizontal 6A Well

Date Issued: 02/09/2016

API Number:
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### PERMIT CONDITIONS

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

#### **CONDITIONS**

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



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

February 8, 2016

Haessly Land & Timber, LLC Attn: Norman E. Haessly, Jr., Member 25 Sheets Run Road Marietta, OH 45750

Re: Permits for EQT Production Co. Well No.'s 513064, 513065, 513066, 513067, 513068 and 513069

API numbers: 47-017-06755, 47-017-06756, 47-017-06757, 47-017-06758, 47-017-06759 and 47-017-06760

Mr. Haessly:

The Office of Oil and Gas (OOG) has reviewed your comments concerning EQT Production Company's permits for the above referenced wells. The comment was sent to the operator for its response. The operator has responded and the response is enclosed for your records.

After considering your comments, the applicant's response, and the inspector's findings, the OOG has determined that the application meets the requirements set forth in Article 6A Chapter 22 of the West Virginia Code and Legislative Rule Title 35 Series 8. Consequently, the OOG is issuing the permits today. For your information and convenience, I am including with this letter a copy of the permits as issued.

As you may know, surface owners are entitled to compensation for damages to their property resulting from oil and gas drilling activity. Absent an agreement by the parties, such damage compensation may be addressed pursuant to Article 7, Chapter 22 of the West Virginia Code.

Please contact me at (304) 926-0499, extension 1547 if you have any questions.

Sincerely, Charles I. Com

Charles T. Brewer

Environmental Resource Specialist WVDEP Office of Oil and Gas

601 57th Street, SE

Charleston, WV 25304

304-926-0499 ext. 1547

EQT

CC: James Martin

Received Office of Oil & Gas NOV 1 8 2015

November 16, 2015

Haessly Land and Timber, LLC Attn: Norman E. Haessly, Jr., Member 25 Sheets Run Road Marietta, OH 45750

Re: Objection to permit applications for wells 513064, 513065, 513066, 513067, 513068, 513069 (OXF155 Well Site, Doddridge County) API numbers 47-017-06755, 47-017-06756, 47-017-06757, 47-017-06758, 47-017-06759, 47-017-06760

Dear Mr. Haessly,

This letter is in response to the objection letter filed with the West Virginia Department of Environmental Protection, Office of Oil and Gas on behalf of Haessly Land and Timber, LLC, dated September 23, 2015 for the wells on the OXF155 site, Southwest District, Doddridge County, WV. Respectfully, EQT wishes to respond to your concerns and objections.

The letter states that "EQT has refused to respond to Haessly's requests to discuss the proposed well locations and their impact on Haessly's timber management and operations." EQT and its contractors met with representatives of Haessly Land and Timber, LLC prior to the application of the subject permits. Early on in the planning process, EQT met with Joe Smith, on October. 8, 2014, to examine the site and considered an alternate accesses road with Mr. Smith. EQT then met with Jack Mathers, Haessly's forester on June 9, 2015 to examine the well site and discuss the best way to get the timber out. EQT offered to discuss the designs with Jack Haessly by way of an email dated September 2, 2015. Subsequent to this formal objection, EQT has offered to meet with Jack Mathers by way of three emails dated October 28, 2015, November 3, 2015, and November 9, 2015, please note Jack Haessly was carbon copied on these emails. Further, the letter states that EQT has disregarded its obligation "to locate all wells so as to interfere as little as possible with the cultivated portion" of the leasehold. Prior to permitting the subject wells, the lands in question were carefully examined to select a location which would provide EQT with a large enough area to reasonably accommodate the development of its mineral resources and keep its disturbance of the surface to a minimum. No other suitable location could be located on the leasehold. Additionally, EQT went through great lengths and expense to purchase access and surface use rights from neighboring landowners to reduce the amount of surface use on the subject tract.

The letter goes on to state "The proposed well sites and road locations will result in the destruction of the valuable timber situate there before it reaches its prime value; these proposed locations will also adversely impact and degrade the timber located there and significantly interfere and disrupt Haessly's management of its timber on the entire tract for decades in place | 12/2016 | 12/2016 | 12/2016 | 13/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2016 | 14/2

# Received Office of Oil & Gas

and would fall under the category of a reasonable use of the surface to develop the mineral estate. Haessly Land and Timber, LLC will be compensated for the timber based on an appraisal dated October 8, 2015and for the value of future timber based on a Timber Growth and Value report dated October 19, 2015, both prepared by David Hill and Associates, LLC.

The letter also states "the proposed disturbance of approximately 35 acres is clearly excessive and unreasonable as it far exceeds what is reasonably necessary". Actual disturbance on the subject lands, as shown on the construction plans is 23.57 acres, and is "reasonably necessary" to safely and effectively develop the mineral estate.

Further, the letter states "the proposed well work violates the terms of the mineral lease upon which EQT relies for its alleged right of entry. The huge area EQT plans to use is far beyond the contemplation of the parties to the 1902 lease." The lease reserved only "40 rods around the building on which no well shall be drilled," therefore it would have been in the contemplation of the parties that any of the remaining property could be used to develop the mineral estate.

In summation, EQT's permit applications meet the technical requirement of W.Va. Code 22-6A-8(d) and the accompanying regulations. The review of the permit conducted by the West Virginia Department of Environmental Protection, Office of Oil and Gas, is limited by statute to a determination of the following: (1) whether the proposed well work will constitute a hazard to the safety of persons; (2) whether the plan for soil erosion and sediment control is not adequate or effective; (3) whether damage would occur to publicly owned lands or resources; or (4) whether the proposed well work fails to protect fresh water sources or supplies. Surface owner comments are considered by the Office of Oil and Gas during this determination with regard to those topics. The comments and objections made by way of the September 23, 2015 letter do not appear to pertain to these topics. EQT asserts it has met all requirement under the relevant statutes, W. Va. Code 22-6A-8(d) and 22-6-11, and will request that the permits be granted.

Sincerely,

David A. Grubb, CPL Regional Land Manager

### HAESSLY LAND & TIMBER, LLC

25 Sheets Run Road Marietta, OH 45750 Telephone: 740-373-6681

Fax: 740-568-0840

September 23, 2015

James Martin, Chief
Gene Smith, Assistant Chief - Permitting
W. Va. Department of Environmental Protection
Oil and Gas Division
601 57th Street, S.E.
Charleston, West Virginia 25304

2

RE: Surface and Coal Owner's Comments In Response to EQT's Proposed Well Work Permits 503064, 503065, 503067, 503068, 503069

#### Dear Sirs:

Haessly Land and Timber LLC ("Haessly") is the owner of the surface and fractional coal, oil and gas mineral interests in a tract of land in Doddridge County, West Virginia ("Haessly tract") where EQT plans to drill Marcellus wells on the 615-acre tract and has requested well work permits from the Oil and Gas Division of WVDEP. Haessly purchased the tract in 1973 and has been managing it since then for a sustainable supply of quality hardwood trees.

As a surface and mineral owner, Haessly submits this letter that serves as (1) Haessly's comments and objections to the location and acreage proposed for the new wells and access roads and (2) a request that the well permits not be issued until the planned location and acreage of the well and access roads is modified to change to a mutually agreed upon location after negotiations between Haessly and EQT.

The lease by which EQT purports to have the right to enter Haessly's land and begin work as set forth in its well work permit application requires EQT, as successor lessee, to covenant and to agree "to locate all wells so as to interfere as little as possible with the cultivated portion" of the leasehold.<sup>2</sup> In total disregard for its obligations under the lease, the proposed well site and attendant road construction is in the heart of *the highest quality* 

<sup>&</sup>lt;sup>1</sup> See copy of notice attached hereto.

<sup>&</sup>lt;sup>2</sup> See copy of lease attached hereto.

stand of hardwood trees on the tract --- a location that creates the greatest possible damage to and interference with Haessly's silvacultural hardwood crop.

EQT has refused to respond to Haessly's requests to discuss the proposed well locations and their impact on Haessly's timber management and operations. EQT also refuses to even discuss, much less negotiate, reasonable locations of its proposed wells and roads "so as to interfere as little as possible with the cultivated [Silvacultural] portion" of Haessly's tract. The proposed well sites and road locations will result in the destruction of the valuable timber situate there before it reaches its prime value; these proposed locations will also adversely impact and degrade the timber located there and significantly interfere and disrupt Haessly's management of its timber on the entire tract for decades in the future.

Moreover, the proposed disturbance of approximately 35 acres is clearly excessive and unreasonable as it far exceeds what is reasonably necessary for EQT to extract the Marcellus gas from the tract and will cause irreparable harmful soil erosion and stream sedimentation that would be avoided by carefully designed well planning.

Finally, as noted above, the proposed well work violates the terms of the mineral lease upon which EQT relies for its alleged right of entry. The huge area EQT plans to use is far beyond the contemplation of the parties to the 1902 lease.

For these reasons, Haessly comments and objects to the location and acreage of EQT's proposed well sites and requests that the well permits be denied until the well locations are negotiated.

Sincerely yours,

Norman E. Haessly, Jr.

Norman E Haessly &

Member

cc: Victoria J. Roark, EQT Permitting Supervisor

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	all mechinery and future placed on such premiers to the parties, of the first party of the second part, in the second part part power with the parties to this second part part power with the second part part part power with the second part part part part part part part part
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	all mechinery and future placed on such premiers to the parties, of the first party of the second part, in the second part part power with the parties to this second part part power with the second part part part power with the second part part part part part part part part

WW - 6B (4/15)

API NO.	47	-	017	-		
OPERATO	RWE	LLNO	).		513066	
Well Pag	d Nar	ne:			OXF155	ì

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

1) Well Operator: EQT Production	on Company	306686	017	7	526
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	513	066	Well Pad Na	me:	OXF155
3) Farm Name/Surface Owner :	Haessly Lan	d & Timber LLC	_ Public Road	Access:	RT 21
4) Elevation, current ground:	1,211.5	Elevation, proposed	oost-constructio	n:1,199	0.0
5) Well Type: (a) Gas	Oil	Underground Stor	age		
Other					
(b) If Gas:	Shallow	Deep			
H	lorizontal				Mich
6) Existing Pad? Yes or No:	No				1 000
) Existing Fau! Tes of No.	INO				9-
7) Proposed Target Formation(s), [	Depth(s), Anticipate	d Thicknesses and Ass	sociated Pressu	re(s):	
		the anticipated thickness to			ssure of 2951 PS
		Top of Marcellus is 66	11		
3) Proposed Total Vertical Depth:			6635		
Formation at Total Vertical Depti	h:		Marcellus		
<ol><li>Proposed Total Measured Dept</li></ol>	th:		12,176		
<ol> <li>Proposed Horizontal Leg Lengt</li> </ol>	h		4,238		
2) Approximate Fresh Water Strat	ta Depths:		59, 183, 204,	262, 419	
3) Method to Determine Fresh Wa	ater Depth:		By offset		
<ol><li>Approximate Saltwater Depths:</li></ol>			1,397	7	
<ol><li>Approximate Coal Seam Depth</li></ol>			132, 252, 292, 5	32	
16) Approximate Depth to Possible	Void (coal mine, ka			None re	ported
17)Does proposed well location con	ntain coal seams di	rectly overlying or			
adjacent to an active mine?		Y	es	No x	
(a) If Yes, provide Mine Info:	Name:				
	Donth:				
	Seam:				
	Owner:				

Page 1 of 3

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Office of Oil & Gas
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API NO.	<u>47</u>		017	-	
OPERATO .	R WE	L NO			513066
Nell Pac	l Nar	ne:			OXF155

#### **CASING AND TUBING PROGRAM**

18)

TYPE	<u>Size</u>	<u>New</u>	Grade	Weight per ft.	FOOTAGE: For	INTERVALS:	CEMENT:
	<u>(in)</u>	<u>or</u>		(lb/ft)	Drilling (ft)	Left in Well	Fill- up (Cu.Ft.)
		<u>Used</u>				<u>(ft)</u>	
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	569	569	509 C.T.S.
Coal	_	-	_	_	-	_	-
Intermediate	9 5/8	New	A-500	40	3,466	3,466	1,370 C.T.S.
Production	5 1/2	New	P-110	20	12,176	12,176	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				Ì			

MAG 9-30-15

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u>	Burst Pressure (psi)	Anticipated Max. Internal	<u>Cement</u> <u>Type</u>	Cement Yield (cu. ft./k)
			<u>(in)</u>		Pressure (psi)		
Conductor	20	24	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. 06757

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

Page 2 of 3

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(10/14)	OPERATOR WELL NO. 5130	
	Well Pad Name: OXF1	55
19) Describe proposed well work, including the drilling and plugging back of any pilo	ot hole:	MBG 9-30-
Drill and complete a new horizontal well in the Marcellus formation. The vertical to go down to an a	pproximate depth of 3247'.	9-30-
Then kick off the horizontal leg into the Marcellus using a slick water frac.		
20) Describe fracturing/stimulating methods in detail, including anticipated max pre-	ssure and max rate:	
Hydraulic fracturing is completed in accordance with state regulations using water recycled from previou		
freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemical	s (including 15% Hydrochloric acid,	
gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "s anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipate		
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barr		
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):	42.01	
22) Area to be disturbed for well pad only, less access road (acres):	21.63	
23) Describe centralizer placement for each casing string.		
<ul> <li>Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.</li> <li>Intermediate: Bow spring centralizers – One cent at the shoe and one spaced every 500'.</li> </ul>	rv 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.	(Type I cement). 0-5% calcum chonce	
0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry		
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature		
slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole dri to a thief zone.	ining hald of certient slurry (not harate)	
Production:	,	
Lond (Time 1 Compath) 0.3.0.78/ Lignon (February)   Longthons thickening time		
0.3% CFR (dispersant). Makes cement easier to mix.	701706757	
Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.	06757	
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.		
0.4-0.0% Halad (hald 1035). Treduces amount of water lost to formation.		
25) Drawaged herehole conditioning procedures. Surface Circulate hele clean (Approx	imately 30-45 minutes) rotating & reciprocating	
25) Proposed poreliole conditioning procedures. Surface: Circulate note clean (Approx		
25) Proposed borehole conditioning procedures. <u>Surface</u> : Circulate hole clean (Approxione full joint until cuttings diminish at surface. When cuttings returning to surface diminish,	continue to circulate an additional 5	
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill.		
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill.	II, bring compressors back on	
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill.	II, bring compressors back on	
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one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill.	II, bring compressors back on	as
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish,	II, bring compressors back on icates washouts that will not clean up.  I joint until cuttings diminish at minutes. If foam drilling, to enhance Received Office of Ciij & Good of the content of the cont	as

API NO. 47 - 017 -

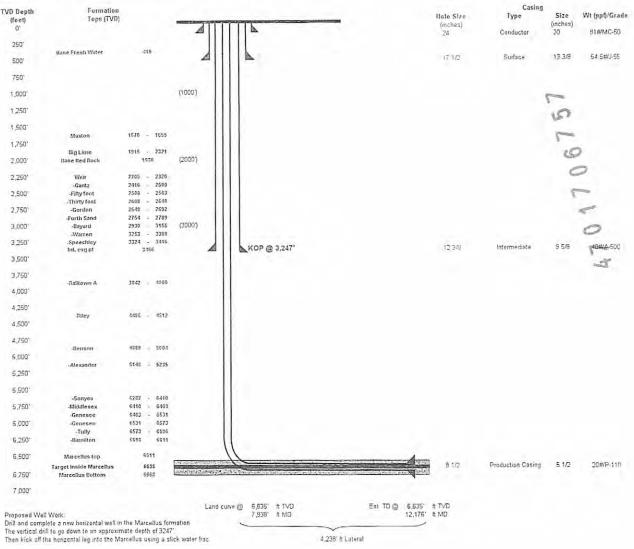
WW - 6B

<sup>\*</sup>Note: Attach additional sheets as needed.



333

Azimuth



Well Namo	513066(OXF155H3)	EQT Production		Elevation KB:	1212
County State	Doddridge West Virgina			Target Prospect Azimuth	Marcellus 333
				Vertical Section	4422
o	_	<b>4</b> 111	<b>  </b>	Hole Size 24" - 20" Conductor at 40'	
				Bit Sizo 17.5*	
500'	419' Fresh Water	Base	— eoo,	TOC @ Surfaco 13 3/8", MC-50, 54.5# @ Bil Size 12.375"	569° R MD
1,000	_		— 1,000		
1,500	— <sub>1,570' Maxton</sub>		— 1,500		
2,000'	1,915' Big Lime 1,930' Base Red Ro	ock	— 2,000	,	
	2,205' Weir	- 11	H		
2,500	2,416' -Gantz - 2,500' -Fifty foot 2,608' -Thirty foot 2,648' -Gordon 2,754' -Forth Sand		2,500	,	
3,000'	2,930' -Bayard	-	- 3,000	•	
3,000	3,253' -Warren 3,324' -Speechley		_ 3,000	KOP = 10 Deg DLS	3,247' ft MD
3,500	_ 3,466' Int. csg pt	۵	_ 3,500	TOC #	Surface 3,466° ft MD
4,000	3,842' -Balltown A		— 4,000	r	
4,500	4,456' -Riley		<b>—</b> 4,500		o may
	4,889' -Benson			4/0	1706757
5,000	5,146' -Alexander		<b>—</b> 5,000	y	<b>V</b>
5,500°	_		<b>—</b> 5,500	у	
6,000	6,282' -Sonyea 6,410' -Middlesex 6,463' -Genesee 6,531' -Geneseo		6,000	ינ	
	6,573' -Tully			Land @	7,938' ft MD 6,635' ft TVD
6,500'	6,611' -Marcellus 6,668' Onondaga	Δ	— 6,500	5 1/2", P-110, 20#	12,176' ft MD 6,535' ft TVD
7,000	_		<b>—</b> 7,000	ע	Received
					Office of Oil & Gas
7,500	_		<b>—</b> 7,50	D*	
					OCT <b>01</b> 2015
8,000	_		— 8,00	0'	



April 2, 2015

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

Re: Casing change on OXF155 (513064, 513065, 513066, 513067, 513068, 513069)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 569' KB, 150' below the deepest fresh water. We will set the 9-5/8" intermediate string at 3466' KB, 50' below the base of the Speechley formation.

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

Sincerely,

Vicki Roark

Permitting Supervisor - WV

Enc.

4701706757

Received
Office of Oil & Gas
SEP 0 8 2015



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)

Sincerela

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

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

4701706757

Peceived
Office of Oil & Gas

SEP 08 2015



#### 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
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
  psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
  hours.

Promoting a healthy environment.

4701706757

Peceived
Office of Oil & Gas
SEP 0 8 2015

#### **CONCLUSIONS OF LAW**

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

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

#### **ORDER**

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

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Received
Office of Oil & Gas
SEP 0 8 2015

WW-9 (2/15)

	Page	1	of	2
API No. 47	- 0	17	-	0
Operator's 1	Well N	lo.		513066

### 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	
•	Sheep Run Of South Fork Hughes River	Quadrangle	Oxford	
	nore than 5,000 bbls of water to cor		vell work? Yes x	No
Will a pit be used ? Yes:	XNo:			
If so please descri	be anticipated pit waste:	flowback wate	r & residual solids	<del> </del>
Will a synthetic line	er be used in the pit? Yes	XNo	_If so, what ml.?	60
Proposed Dispos	sal Method For Treated Pit Wastes	<b>:</b>		
·	Land Application			,
	Underground Injection ( U Reuse (at API Number	IIC Permit Number Vari		
		orm WW-9 for dispos		
	Other (Explain			
Will closed loop system b	e used ? Yes, The closed loop sys	stem will remove drill cut	tings from the drilling	
fluid. The drill cuttings are t	hen prepared for transportation to an o	off-site disposal facility.		
Drilling medium anticipate	ed for this well (vertical and horizon	ital)? Air, freshwater, o	oil based, etc.	
=	the wellbore (surface, intermediate, and pilot). Water be			
and drill the intermediate section. The pit	ot hole, curve, and lateral sections will be drilled with eith	ner air, water based mud, or oil base	d mud.	<del></del>
_ If oil based w	vhat type? Synthetic, petroleum, et	n s	Synthetic mud	
Additives to be used in dr			g, water. Water based mud - Bar	to, viscosifer,
	control, deflocculates, biodegradable oil lub			
	e oil, emulsifier, salt, lime, viscosifer, alkalin			·
biodegradable oil lubricant, def	oaming, carbonates.			<del></del>
D. 10 10 10 10	-th-d2 Leove in nit landfill romay	ad affaita ata	Landfill	
<u> </u>	ethod? Leave in pit, landfill, remove plan to solidify what medium will be used?		n/a	
	te name/permit number?		iched List	
Landin or one.				
Permittee shall provide writte any West Virginia solid wast disclose where it was proper	en notice to the Office of Oil and Gas of the facility. The notice shall be provided thy disposed.	of any load of drill cutting I within 24 hours of rejec	s or associated waste et tion and the permittee sh	Gled 1 7 0 6 7 5 . all also
	and agree to the terms and conditions of			
on August 1, 2005, by the Office	e of Oil and Gas of the West Virginia Depar orceable by law. Violations of any term or c	rtment of Environmental Pro-	otection. I understand that t	ne aw
or regulation can lead to enforce		ondition of the general peri	ill and of other applicable i	
_	law that I have personally examined and a	m familiar with the informati	on submitted on this	
application form and all attachm	nents thereto and that, based on my inquiry	of those individuals immed	liately responsible for obtain	ning Depole
	e information is true, accurate, and comple		re significant penalties for	Received
submitting false information, inc	cluding the possibility of fine or imprisonmen			Office of Oil & Gas
Company Official Signatu	ire	0 //		OCT <b>0 1</b> 2015
Company Official (Typed		Victoria J. Roar	k	
Company Official Title		Permitting Supervisor		
	<u> </u>	C 1		15
Subscribed and sworn be	fore me this day	of	, 20 <b>2</b> 688888	
	la her	•	Notar Py	STATE OF WEST VIRGINIA NOTARY PUBLIC Pamela Sykes EQT Production PO Box 280 Bridger Ot WY 25330 1 6 My Commission Expires Aug. 24, 2022
	0.00	/ 3.5		NOTARY PUBLIC Pamela Sykes
My commission expires	8-24	43		EQT Production PO Box 280
				Bridgepor WV 26330 16  My Commission Expires Aug. 24, 2022
			Sitting	Zierriterinerinen 1990 (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (19

Form WW-9		Operator's Well	No513066
Proposed Revegetation Treat	ment: Acres Disturbed	42.01 Preve	egetation pH6
Lime3	Tons/acre or	to correct to pH	6.5
Fertilize type	Granular 10-20-2	20	
Fertilizer Amount	1/3 lbs	/acre (500 lbs minimum)	
Mulch	2	Tons/acre	
		Seed Mixtures	
Tempora	ary	Pern	nanent
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/acre 15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
Photocopied section of involv	ed 7.5' topographic she	et.	
Plan Approved by: Mix	had Do	w/s/,	
Comments: Preseed	1 of mulch.	any distu	rhed areas
		tions. Maintain	
1 _	-		
		-	
Title: <u>B:1 4 G</u>	as Inspect	For Date: 9-30	- 15
Field Reviewed? (	) Ye	es ()	No

4701706757

Received Office of Oil & Gas 0CT 0 1 2015

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

#### CWS TRUCKING INC.

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

#### LAD LIQUID ASSETS DISPOSAL INC.

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

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

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

#### **Waste Management - Meadowfill Landfill**

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

#### **Waste Management - Northwestern Landfill**

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

#### **BROAD STREET ENERGY LLC**

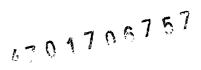
37 West Broad Street Suite 1100 Columbus, Ohio 43215 740-516-5381 Washington County/Belpre Twp. Permit # 8462

#### **TRIAD ENERGY**

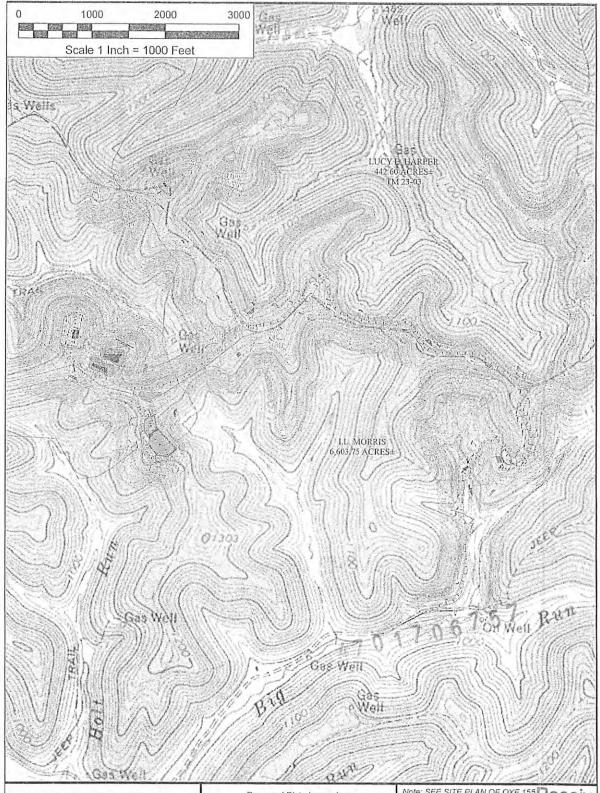
P.O. Box 430
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobel County/Jackson Township
Permit # 4037

#### KING EXCAVATING CO.

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







Pullman 7.5' USGS QUA	DRANGLE	Proposed Disturbance Area			
Projected culvert inve (for bid purposes or	ntory. ily)	Well Site Location	See Site Plan		
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan		
24" minimum diameter culverts See Site Plan		Approximate Total Disturbance	See Site Plan		
DRAWN BY: Dale Tomlin PS DATE: August 13, 2015		FILE NO 239-13 DRAWING 239-13	FILE NO.		

SURVEYING AND MAPPING SERVICES PERFORMED BY:

### ALLEGHENY SURVEYS, INC.

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608 237 Birch River Road P.O. Box 438 Birch River, WV 26610 Note: SEE SITE PLAN OF OXF 155 Received
FOR COMPLETE GRADING &
DRAINAGE CONSTRUCTION FILE OF OIL & Gas
INCLUDING EROSION & SEDIMENT OF OIL & Gas
CONTROL DETAILS, ETC.

OCT 0 1 2015

MAG

02/12/2016-15



Proposed Disturbance Area Pullman 7.5' USGS QUADRANGLE Projected culvert inventory (for bid purposes only) Well Site Location See Site Plan 15" minimum diameter culverts See Site Plan Proposed Access Road See Site Plan 24" minimum diameter culverts See Site Plan See Site Plan Approximate Total Disturbance Dale Tomlin PS August 13, 2015 239-13 DRAWING FILE NO. 239-13 Rec Plan.dwg

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608 237 Birch River Road P.O. Box 438 Birch River, WV 26610 Note: SEE SITE PLAN OF OXF 155 RECEIVED
FOR COMPLETE GRADING PLAN OF OXF 155 RECEIVED
DRAINAGE CONSTRUCTION CONTROL DETAILS, ETC.

OCT 0 1 2015

MAC

02/12/20160-13



## Site Specific Safety Plan

## EQT OXF155 Pad

## Oxford

## Doddridge County, WV

513066	For Wells.	
	4701706757	
EQT Production	Date Prepared:  March 27, 2015  WV Oil and Gas Inspector	
Title 8-31-15 Date	Title  9 - 30 - 1 Soffice of Oil & G  Date  OCT 0 1 2015	ìa
	001 01 2013	

PHOENIX TECHNOLOGY SERVICES Where energy meets innovation, Azimuths to Grid North 6000 G M True North: 0.83° Magnetic North: -6.90° Magnetic Field Strength: 52166.4snT Dip Angle: 66.67° Date: 6/10/2015 Model: HDGM 5000 Well #513064/513064 Plan 3 Well #513068/513068 Plan 4 4000 Well #513069/513069 Plan 1 Well #513067/513067 Plan 3 Well #516483/516483 Plan 3000-Well #513066/513066 Plan 3 Vell-#512481/512481\_Surveys 2000-1000-Well #513065/513065 Plan 3 South(-)/North(+) (1500 usft/in) 0 -1000 -2000 Well #5124\$1/512481 Sidetrack Surveys -3000 6701706757 -4000 -5000 Received Office of Cit & Gas -6000 OCT 0 1 2015 -7000--8000 -2000 -1000 1000 2000 3000 -6000 -5000 -4000 -3000 4000 West(-)/East(+) (1500 usft/in)

Operator's Well No.

513066

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

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

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

- 1			
ш	1311513	Name	OF
- 1	JUL (13)	1 THILL	1/1

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Pag	ie.
106125			Min 1/8 pd		
	Eli Nutter and Mary Nutter	J.L. Newman		LB21/211	
	J.L. Newman	The Philadelphia Company of We	st Virginia	LB24/56	
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas	Company	DB87/90	
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		LB121/303	
	Equitable Gas Company	Equitrans, Inc.		LB154/475	
	Equitrans, Inc.	Equitrans, LP		DB433/777	
	Equitrans, LP	Equitable Production Company		DB433/738	
	Equitable Production Company	EQT Production Company		CB281/346	(Name Chang
7-10-2	I.L. Morris	EQT Production Company	N/A	360/100	
				Sub Surface E	asement

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

Well Operator: EQT Production Company

By:

Its: Permitting Supervisor

Page 1 of 1



EQT Production Company 2400 Zenith Ridge Rd. Suite 200 Canonsburg, PA 15317 www.eqt.com

Todd Klaner Manager, Permitting tklaner@eqt.com

December 9, 2015

WV DEP Reviewer

RE: EQT Production Company

PAD ID - OXF155 Well# - 513066 Doddridge County

Dear Reviewer,

This well indicated by this permit application contains a Subsurface Easement Agreement for non-productive portions of the well bore. Attached is a Memorandum of Subsurface Use Agreement which gives EQT the right to drill below the surface of the tract 10/2 shown on the well plat.

EQT Production understands that the WVDEP will issue the permit in the normal process subject to the completeness of the requirements of the Office of Oil and Gas and does not take a position with regards to the property rights under this agreement.

EQT Production agrees that the WVDEP's issuance of the permit is in no way an affirmance or validation of EQT Production's claimed rights.

Regards,

Todd Klaner

Manager, Permitting

**EQT Production Company** 

#### MEMORANDUM OF SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT

#### 1. NAME AND ADDRESS OF GRANTOR:

I.L. Morris
P.O. Box 397
Glenville, WV 26351

#### 2. NAME AND ADDRESS OF GRANTEE:

EQT Production Company 625 Liberty Avenue Suite 1700 Pittsburgh, PA 15222

- 3. <u>SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT REFERENCE</u>: A SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT dated the 30th day of July, 2015, was entered into for good and valuable consideration by and between I.L. Morris ("Grantor", whether one or more) and EQT Production Company ("Grantee").
- 4. <u>DESCRIPTION OF PREMISES</u>: That certain tract or parcel of land containing 6600.75 acres, more or less, located on Big Run in Doddridge County, West Virginia, being the same lands conveyed to Grantor by Deed dated the 12<sup>th</sup> day of February, 1996, of record in the Office of the Clerk of the County Commission of Doddridge County, West Virginia in Deed Book 230, at Page 307. ("the Property").
- 5. <u>TERM</u>: The SUBSURFACE RIGHT-OF-WAY AND EASEMENT shall run with the land and shall remain in full force and effect until released and relinquished by the Grantee back to the Grantor, in writing.

4701706757

Received
Office of Oil & Gas

(REMAINDER OF PAGE LEFT BLANK INTENTIONALLY)

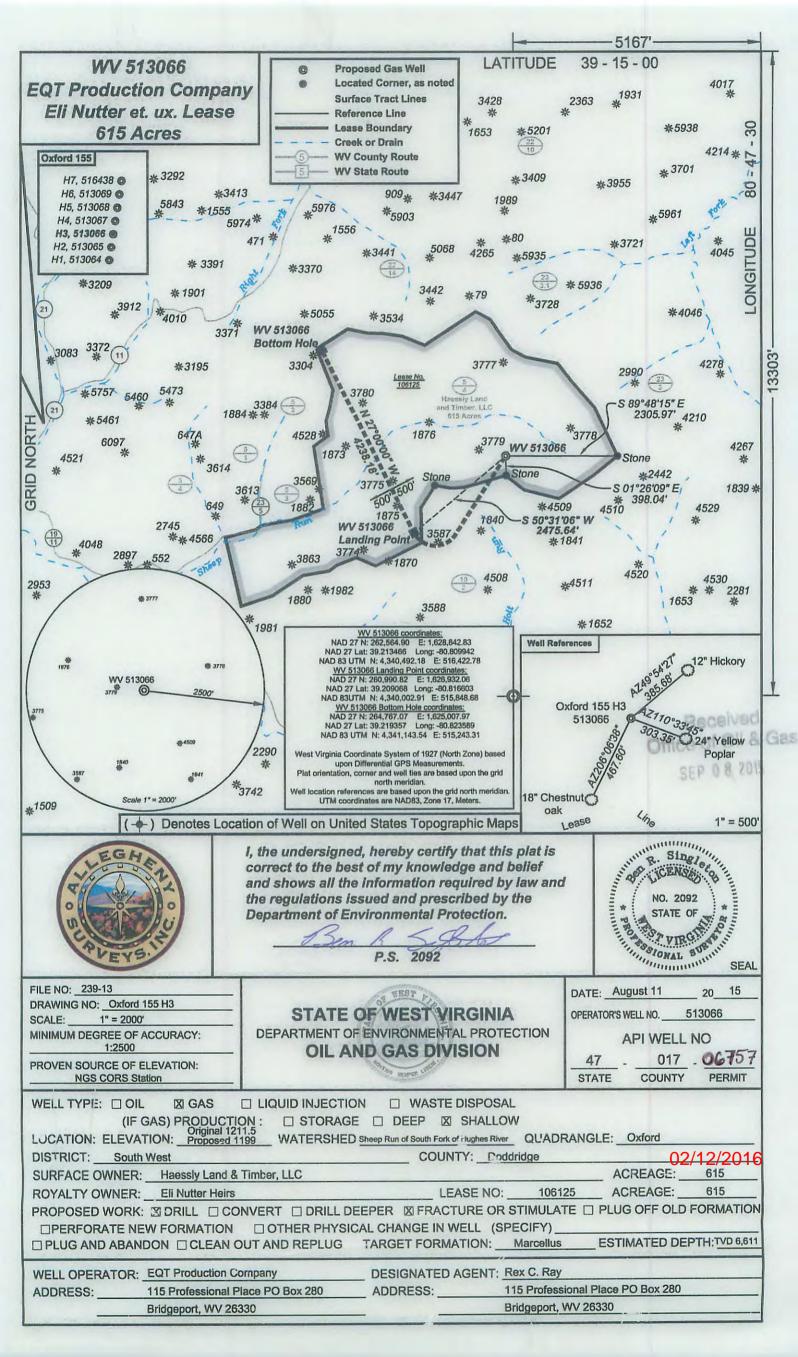
SEP **08** 2015

IN WITNESS WHEREOF, the parties have signed their names hereto as of the date of the Agreement referenced in Section 3 above.

GRANTOR: GRANTEE: **EQT Production Company** S ALE FROFESSIONAL PLASE RIDGEFORT. AN 26370-450 By: John W. Damato Its: Attorney in fact STATE OF West Virginia; COUNTY OF Gulmer 1. Sandra Ann Posts + , a Notary Public, in and for said State and County, do hereby certify that I.L. Morris, personally known to be the same persons whose names are subscribed to the foregoing instrument, 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 20th day of July, 2015. My Commission expires: OFFICIAL SEAL COMMISSIONER State of West Virginia SANDRA ANN PETTIT Gilmer County STATE OF WEST VIRGINIA; COUNTY OF HARRISON: 1, Charles . //etzera Notary Public, in and for said State and County, do hereby certify that John W. Damato, possionally known to be the same person whose name is subscribed to the foregoing instrument and 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 his free act and deed for uses and purposes therein set forth on behalf of said company. Given under my hand this 26th day of August, 2015. My Commission expires: May 21, 2017. Notary Public Forth A Rosers DODMIDET County 05/08/47 ht Instrument No. 20/302 Date Recorded 00/31/2015 Document Type WENTRIN This instrument was prepared by EQT Production Company, 1710 Pennsylvania Avenue, Charleston, WV 25302. Pages Recorded 2 Book-Page 360-19 Recording Fee \$5.00 6701706757 Additional \$6.00

Received Office of Oil & Gas

SEP 0 8 2015



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

Date of No	otice Certification: 9-1-13	5	API No. 47 - 0	17 - 0
			Operator's Well No.	513066
			Well Pad Name:	OXF155
Notice has	been given:			
		le § 22-6A, the Operator has provided	I the required parties wit	h the Notice Forms listed
	e tract of land as follows:	ie 3 22 ort, the operator has provided	rine required parties wit	ar the reduce rolling listed
State:	WV	UTM NAD 83 Easting:		516,422.78
County:	Doddridge	UTM NAD 83 Northing:	-	4,340,492.18
District:	Southwest	Public Road Access:		RT 21
Quadrangle:	Oxford	Generally used farm name:	Ha	essly Land & Timber LLC
Natershed:	Sheep Run Of South Fork Hug	hes River		
of this article	e have been completed by the appli	perator has attached proof to this Noti		OOG OFFICE USE
PLEASE (	CHECK ALL THAT APPLY			ONLY
		NOTICE NOT REQUIRED BECA SEISMIC ACTIVITY WAS CONE	AUSE NO DUCTED	RECEIVED/NOT REQUIRED
□ NOTICE	E OF ENTRY FOR PLAT SURV	VEY or ▼ NO PLAT SURVEY W	VAS CONDUCTED	☐ RECEIVED
V NOTICE	E OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECA NOTICE OF ENTRY FOR PLAT WAS CONDUCTED OR		RECEIVED/NOT REQUIRED
	ļ en	. WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	CE OWNER	
NOTICE	E OF PLANNED OPERATION			☐ RECEIVED
₩ PUBLIC	CNOTICE		47017	☐ RECEIVED
E NOTICE	E OF APPLICATION		/	067
IV NOTICE	OF APPLICATION			RECEIVED Rece

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 II. 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.

02/12/2016 the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

Certification o	f M	otice	ic	herel	by	niven:
Certification o	1 14	Olive	15	11/01/91	Jy	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 Victoria J. Roark Bridgeport, WV 26330 By: Permitting Supervisor Facsimile: 304-848-0040 Its: Telephone: 304-848-0076 Email: vroark@egt.com



Subscribed and sworn before me this Notary Public

My Commission Expires

#### Oil and Gas Privacy Notice:

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

4701706757

Received Office of Oil & Gas SEP 0 8 2015

WW-6A (9-13)

API NO.	47	-	017	ė	
OPERATOR	WEL.	L NO.			513066
Woll Dod	Mam	۵٠			OVE155

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

A	otice shall be provided no later than the filing d	The second second	application.	
	Date Fernit Application File	u	7.1.75	
Notice of:				
PERMIT FOR ANY WELL WORK	CERTIFICATE OF APPROCONSTRUCTION OF AN I			
	to West Virginia Code § 22-6A-10(b)			
☐ PERSONAL	☐ REGISTERED ✓ ME	THOD OF I	DELIVERY THAT REQUIRES A	
SERVICE	MAIL RE	CEIPT OR S	IGNATURE CONFIRMATION	
for the construction of a requires a receipt or sign plat to each of the follow the surface tract or tracted disturbance as described lessee, in the event the trecord of the surface tracconstruction, enlargeme water purveyor who is k which is used to provide work activity is to take p in the lands, the applica article one, chapter elev unless the lien holder is	an impoundment or pit as required by the nature confirmation, copies of the application of the application of the application of the application of the erosion and gas leasehold be a finite erosion and sediment control pract of land on which the well propose of tracts overlying the oil and gas lead, alteration, repair, removal or abandon on the applicant to have a water of water for consumption by humans or place. (c)(1) If more than three tenants of this code. (2) Notwithstanding the landowner. W. Va. Code R. § 35-8	his article site ation, the dof the sure eing development of the domestic at in common of the period and poor the period and provises.	the application, the applicant for a permit for any well we shall deliver, by personal service or by registered mail of the erosion and sediment control plan required by section reface of the tract on which the well is or is proposed to toped by the proposed well work, if the surface tract is to ted pursuant to subsection (c), section seven of this artilled is located [sic] is known to be underlain by one or sing developed by the proposed well work, if the surface any impoundment or pit as described in section nine or go or water supply source located within one thousand for animals; and (6) The operator of any natural gas storage in or other co-owners of interests described in subsection article to the contrary, notice to a lien holde uires, in part, that the operator shall also provide the World the later testing as provided in section 15 of this stall Plat Notice is hereby provided to:	or by any seven of be located; o be used ccle; (3) more coal e tract is to f this live e field on (b) of be r is not ell Site
☑ SURFACE OWNER	R(s)	☑ CC	OAL OWNER OR LESSEE	
Name:	Haessly Land & Timber LLC	Name:	Hassel Thomas Hicks	
Address:	25 Sheets Run Rd.	Address:		
	Marietta OH 45750		Coolridge WV 25825	
	0		0	
1. 6			See attached for additional coal owners.	
Name:	0		OAL OPERATOR	
Address:		Name:	0	
	0	Address:	0	
C CURE CE ONDE				
	RS(s) (Road and/or Other Disturbance	)	0	
Name:	Haessly Land & Timber LLC 25 Sheets Run Rd.	CI CI	IDEACE OWNED OF WATER WELL	
Address:	Marietta OH 45750		JRFACE OWNER OF WATER WELL  R WATER PURVEYOR(s)	
	0	Name:	0	
Name:	Lucy E. Harper	Address:		
	511 Boca Ciega Point Blvd. North	101010191	0	
PARTITION AND ADDRESS OF THE PARTITION AND ADDRESS OF THE PARTIES AND ADDRESS OF THE PARTITION AND ADDR	St. Petersburg FL 33708		0	Receive
	See Attached	100		HECEIVE
SURFACE OWNER	R(s) (Impoundments/Pits)	☐ OF	PERATOR OF ANY NATURAL GAS STORAGE FIELD	Office of Oil
Name:	I.L. (Ike) Morris	Name:		
Address:	PO Box 397	Address:		SEP 082
Charles and Charles	Glenville WV 26351			4
	0			

\*Please attach additional forms if necessary



October 23, 2015

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

Re: WW6A name correction 017-06755, 017-06756, 017-06757, 017-06758. 017-06759, 017-06760

Dear Mr. Smith,

Enclosed is a name change on the above API numbers. The name was submitted as Tracy Ruth Paul Roby and should be TACY. Please insert this change into the permits on file.

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

Sincerely,

Vicki Roark

Permitting Supervisor-WV

4701706757

Enc.

Received
Office of Oil & Gas
OCT 26 2015

4701706757

#### Surface Owners(road or other disturbance):

I.L. (Ike) Morris PO Box 397 Glenville WV 26351

#### **Additional Coal Owners**

Frank J Hicks 7232 Twin Lakes Lane Pensacola FL 32504

Skeeter Hicks 220 W Marigold St Munhall PA 15120

Elizabeth D Delabar 6405 Nelson Drive LaPlata MD 20646

Peggy A Mudd Unknown Address

Mary A.G. Willis Unknown Address

David Thomas Hickman Jr. 3315 Dublin Manor Rd Street MD 21154

Edward Jo Nutter RT2 Box 196 Salem WV 26426

Dorthy Gola PO Box 117 Reynoldsville WV 26422

Ancient Energy 465 Hill Street Fort Royal VA 22630

Anna Marie Guthrie 4735 Dustin Place Dr. Southhaven MS 38671

Terry Alan Nutter 9039 Willey Rd. Harrison OH 45030

Mary Catherine Burgess 17 Washington Ave North Bend OH 45052

Tacy Ruth Paul Roby 8708 Tuckerman Lane Potomic MD 20854 4701706757

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Office of Oil & Gas
OCT 26 2015

### Updated Address List

WW6-A

I.L. (Ike) Morris PO Box 397

Glenville WV 26351

WELL

4701706757

Surface Owners(road or other disturbance):

513066

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SEP 1 4 2015

**Additional Coal Owners** 

Frank J Hicks 7232 Twin Lakes Lane Pensacola FL 32504

Skeeter Hicks 220 W Marigold St Munhall PA 15120

Elizabeth D Delabar 6405 Nelson Drive LaPlata MD 20646

Peggy A Mudd Unknown Address

Mary A.G. Willis Unknown Address

David Thomas Hickman Jr. 3315 Dublin Manor Rd Street MD 21154

Edward Jo Nutter RT2 Box 196 Salem WV 26426

Dorthy Gola PO Box 117 Reynoldsville WV 26422

**Ancient Energy** 465 Hill Street Fort Royal VA 22630

Anna Marie Guthrie 4735 Dustin Place Dr. Southhaven MS 38671

Terry Alan Nutter 9039 Willey Rd. Harrison OH 45030

Mary Catherine Burgess 17 Washington Ave North Bend OH 45052

Tracy Ruty Paul Roby 8708 Tuckerman Lane Potomic MD 20854

WV Department of **Environmental Protection** 

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### **Additional Coal Owners**

Stephen E Miner PO Box 55853 Shoreline WA 98155

Michael I Spiker
103 Cedar Ridge Drive
Ripley WV 25271

Drew M Spiker 103 Cedar Ridge Drive Ripley WV 25271

Willa Dean Spiker Unknown Address

Thomas Miller 3616 Glenmore Ave Cincinnati OH 45211

Cathy Gregis RR 2 Box 140 Bristol WV 26332

Jeffrey Spiker 8168 Good Hope Pike Lost Creek WV 26385

e Pike

Mary Elta Knight 102 Elizabeth Street West Union WV 26456

Worthy Carson Underwood Jr., 4192 Nutter Fork Rd. West Union WV 26456

Sharon Knight 1706 Oak St. Parkersburg WV 26101

Stephen Knight 48 Twin Lakes Circle Martinsburg WV 25405

Diana Lynne Knight 3835 Nutter Fork West Union WV 26456

Melanie Fouse 249 Joe Miller Rd Kearneysville WV 25430

Bobbi Jo Conley 413 Fryer Oaks Ct St. Cloud FL 34771

Brada Stotts 100 Pine Drive Evans WV 25241 Baggiess New WELL 513066

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WV Department of Environmental Protection

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02/12/2016

P9. 7

### **Additional Coal Owners**

WELL 513066

Mark Spiker 3174 Lamberton Rd Pennsboro WV 26415

New address

Briana Deremer (Spiker) 1280 Fairlawns Ave. Morgantown WV 26505

John Spiker 166 Linden Lane Jane Lew WV 26378

Melinda Chambers HC 63 Box 1820 Romney WV 26757

Idell Kehoe Unknown Address

Beverly Karman 6742 S. Taylor Drive/ Tempe AZ 85283

Diane Smith 420 Spiketon Rd. Apt. 21 Buckley WA 98321

Marc Stinespring C/O Beverly Karman 6742 S Taylor Dr Tempe AZ 85283 Found Adduss

Jean S. Richardson 106 Meadowbrook Ct.. \* Niceville FL 32578

Faye Coe 16625 Valley Dr. Tampa FL 33618

Jean Haught Unknown Address

Mary Maudaline Haught

Mildred Lee Maxwell 3378 Route 18 South & West Union WV 26456

Charter D Stinespring II POB 4 Arthurdale WV 26520

Victor G. Stinespring PO Box 81
West Union WV 26456

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WV Department of Environmental Protection

470170675.

### **Additional Coal Owners**

WELL 513066

**Delores Stinespring** 2526 North Main St. Danville VA 24540

Pamela Stinespring 8808 S. 47th Ave Laveen AZ 85339

Lucy Harsch Unknown Address

Leslie W. Dotson 803 Dewey Ave St. Marys WV 26170

Lorene Dotson Kinney Updated Name 1009 E Penn Ave 1009 E Penn Ave Pennsboro WV 26415

Mary Lucile Dotson 803 Dewey Ave St. Marys WV 26170

Lehman B. Jackson Rt 1 Box 165 Pennsboro WV 26415

Norman L Jackson 1764 Mountain Dr Pennsboro WV 26415

New Address
New Address Robert P Jackson 305 Stewarts Run Harrisville WV 26362

Judith A. Basile 842 Beaumont Rd. Charleston WV 25314

Sandra L Hammond 1104 Tates Brooke Drive Lexington KY 40517

Barbara S Lopez 23660 Elkwood Street West Hills CA 91304

Sonja Upton 320 Hurricane Ave Hurricane WV 25526

Letitia Bennett RT 2 Box 52 Chapmanville WV 26508

Ioma Kathryn Dotson 4635-B Pennsylvania Ave Charleston WV 25302

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WV Department of **Environmental Protection** 

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WW-6A (8-13) API NO. 47 - 017 - 0

OPERATOR WELL NO. 513066

Well Pad Name: OXF155

### Notice is hereby given:

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

### This Notice Shall Include:

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

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

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

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

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

### **Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state and the state 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. (a) The control of this article (b) The control of the state of this article (c) The control of the state of this article (c) The control of the state of this article (d) The control of the state of this article (d) The control of the state of this article (d) The control of the state of this article (d) The control of the state of this article (d) The control of the state of this article (d) The control of the state of this article (d) The control of the state of th volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied SEP 08 2015 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-bycase 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 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

Received
Office of Oil & Gas

SEP 08 2015

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.



### 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.

4701706757 Received Office of Oil & Gas

Notice is hereby give	en by:		
Well Operator:	<b>EQT Production Company</b>	Address:	115 Professional Place P.O. Box 280
Telephone:	304-848-0082		Bridgeport, WV 26330
Email:	Vroark@eqt.com	Facsimile:	304-848-0041

### Oil and Gas Privacy Notice:

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

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

OFFICIAL SEAL STATE OF WEST VIRGINIA

MOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

By: Victoria Roark Its: Permitting Supervisor

Subscribed and sworn before n

day of

, 2015

My Commission Expir

4701706757

Received Office of Oil & G SEP 0 8 2015 Topo Quad: Oxford 7.5' 1 " = 2000' Scale: Doddridge County: Date: January 29, 2015 District: Southwest Project No: 239-36-S-13 Oxford 155 Well Pad No Potential Water Sites Within 2500 Oxf 155 Well Pad Oil Well Ra Gus Avail Hece ived SURVEYING AND MAPPING SERVICES PERFORMED BY: EQT Production Company Dil & G ALLEGHENY SURVEYS, INC. 1-800-482-8606 P.O. BOX 438 BIRCH RIVER, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 P.O. Box 280 Bridgeport, WV 26330

2015

# 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 F	Requirement: Notice shall be provided at least TEN (10)	days prior to filing a	permit application.	
Date of Notic	e: AUG 1 2 2015 Date Permit App	lication Filed:	AUG 2 2 20	15
Delivery meth	nod pursuant to West Virginia Code § 22-6A-16(b)			
HAND DELIVE	RY CERTIFIED MAIL RETUR	RN		
receipt reque drilling a horiz of this subsec subsection mand if available	V. Va. Code § 22-6A-16(b), at least ten days prior to filing sted or hand delivery, give the surface owner notice of contal well: Provided, That notice given pursuant to subtion as of the date the notice was provided to the surface was be waived in writing by the surface owner. The notice he, facsimile number and electronic mail address of the	its intent to enter up section (a), section to ce owner: Provided, e, if required, shall in	on the surface owner's len of this article satisfies however, That the notic clude the name, addres	and for the purpose of s the requirements e requirements of this s, telephone number,
Notice is here Name:	by provided to the SURFACE OWNER(s):  Haessly Land & Timber LLC	Name:		Lucy Harper
Address:	25 Sheets Run Rd.	/Address:	511 D	oc Ciega Point Blvd North
Address.	Marietta OH 45750	Address.	511 60	St Petersburg FL 33708
Notice is here	eby given:			
Pursuant to V	Vest Virginia Code § 22-6A-16(b), notice is hereby given	that the undersigned	d well operator has an ir	itent to enter upon
the surface or	wner's land for the purpose of drilling a horizontal well	on the tract of land a	s follows:	
State:	WV	UTM NAD 83	Easting	516,422.78
County:	Doddridge		Northing	4,340,492.18
District:	Southwest		ublic Road Access:	RT 21
Quadrangle:	Oxford	Generall	used farm name:	Haessly Land & Timber LLC
Watershed:	Sheep Run Of South Fork Hughes River			
facsimile num related to hor located at 60	Vest Virginia Code § 22-6A-16(b), this notice shall includaber and electronic mail address of the operator and the rizontal drilling may be obtained from the Secretary, at 1 57th Street, SE, Charleston, WV 25304 (304-926-0450)	e operator's authoriz the WV Department	ed representative. Addit of Environmental Protec	tional information
Notice is here		A N A A A A B		Victoria Roark
Well Operator:	EQT Production Company 115 Professional Place, P.O Box 280	Authorized Represe Address:	mauve.	115 Professional Place, P.O Box 280
Address:	Bridgeport, WV 26330	Address:		Bridgeport, WV 26330
Telephone:	304-848-0076	Telephone:		304-848-0076
Email:	vroark@eqt.com	Email:		vroark@egt.com
Facsimile:	304-848-0041	Facsimile:		304-848-0041
- desimile.	304 040 0041	. desirine.		Office of Oil &
	rivacy Notice: Oil and Gas processes your personal information, such a	as name, address and	l telephone number, as	000 000

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

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact 02/12/2016

# 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.

304-848-0041	Facsimile:	304-848-0041
vroark@eqt.com	Email:	vroark@egt.com
	Telephone:	304-848-0076
	Addiess.	Bridgeport, WV 26330
		115 Professional Place, P.O Box 280
· 프리카드 경험에 다른 사람들은 사람들이 되었다. 그리고 보다 그 모든 사람들이 되었다. 그리고 보다 그 보다 그리고 보다 보다 그리고 보	Authorized Representative	Victoria Roark
	y or by visiting www.dep.wv.gov, on c	4701706757
이 그 일반에 되는 것이 가득 하는 가능한다면 하는데 이렇게 하게 되는데 하는데 하는데 되었다면 하는데 되었다.		
	나는 그렇게 되었다. 그렇게 하는 이 사람들은 사람들이 되었다면 그렇게 되었다. 그리고 있는 경기를 다 되었다.	
그리고 그래나 아이들은 나는 이 아니라는 이 나를 가게 하시겠다면 이렇게 하는데 모기되지 않아 있다.		
	a tha nama address talanhana au	phor and if available
Sheep Run Of South Fork Hughes River		
Oxford		
Southwest		T T T T T T T T T T T T T T T T T T T
Doddridge	UTM NAD 83	
er's land for the purpose of drilling a horizontal well o	on the tract of land as follows:	
Glenville WV 26351		
PO Box 397	Address:	
IL Morris	/Name:	
IL Morris PO Box 397	/	
provided to the SURFACE OWNER(s):		
ne waived in writing by the surface owner. The notice	e, if required, shall include the name	, address, telephone number,
tal well: Provided, That notice given pursuant to sub	section (a), section ten of this article	satisfies the requirements
a. Code § 22-6A-16(b), at least ten days prior to filing	g a permit application, an operator s	hall, by certified mail return
ERY RECEIPT REQUEST	ED	
CERTIFIED MAIL RE	TURN	
pursuant to West Virginia Code § 22-6A-16(b)		2 2015
	a. Code § 22-6A-16(b), at least ten days prior to filing dor hand delivery, give the surface owner notice of tal well: Provided, That notice given pursuant to subtain as of the date the notice was provided to the surface waived in writing by the surface owner. The notice acsimile number and electronic mail address of the expression of the surface owner. The notice acsimile number and electronic mail address of the expression of the surface owner. The notice acsimile number and electronic mail address of the expression of the surface owner. The notice provided to the SURFACE OWNER(s):    IL Morris	a. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator of driving an additional delivery, give the surface owner notice of its intent to enter upon the surface of tall well: Provided, That notice given pursuant to subsection (a), section ten of this article as of the date the notice was provided to the surface owner: Provided, however, That the waived in writing by the surface owner. The notice, if required, shall include the name, acsimile number and electronic mail address of the operator and the operator's authorized provided to the SURFACE OWNER(s):    IL Morris   PO Box 397   Glenville WV 26351     Glenville WV 26330     Generally used farm name     Gene

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

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact 02/12/2016

WW-6A5
(1/12)

Operator Well No.

513066

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

NOTICE OF PLANNED OPERATION

operation on the State: County: District: Quadrangle: Watershed: This Notice Sha Pursuant to We to be provided horizontal well; surface affected information reli	est Virginia Code § 22-6A-16(c), this notice shall by W. Va. Code § 22-6A-10(b) to a surface own and (3) A proposed surface use and compensad by oil and gas operations to the extent the datated to horizontal drilling may be obtained from ocated at 601 57th Street, SE, Charleston, WV 2	Public Road Acc Generally used include: (1)A copy of er whose land will be tion agreement conta mages are compensa n the Secretary, at th	Easting:  Northing: ess: farm name:  this code section; (2) tused in conjunction aining an offer of com ble under article six-b e WV Department of ) or by visiting www.c	516,422.780000 4,340,492.180000 RT 21 Haessly Land & Timber LLC The information required with the drilling of a spensation for damages to the of this chapter. Additional Environmental Protection dep.wv.gov/oil-and-gas/
operation on the State: County: District: Quadrangle: Watershed: This Notice Sha Pursuant to We to be provided in the information relishead quarters, lepages/default.a	Doddridge Southwest Oxford Sheep Run Of South Fork Hughes River  Ill Include: 1st Virginia Code § 22-6A-16(c), this notice shall by W. Va. Code § 22-6A-10(b) to a surface own and (3) A proposed surface use and compensate by oil and gas operations to the extent the datated to horizontal drilling may be obtained from ocated at 601 57th Street, SE, Charleston, WV 2 15DX.  EQT Production Company	Public Road Acc Generally used include: (1)A copy of er whose land will be tion agreement conta mages are compensa in the Secretary, at the 25304 (304-926-0450	Easting:  Northing: ess: farm name:  this code section; (2) tused in conjunction aining an offer of com ble under article six-b e WV Department of ) or by visiting www.c	516,422.780000 4,340,492.180000 RT 21 Haessly Land & Timber LLC The information required with the drilling of a spensation for damages to the of this chapter. Additional Environmental Protection dep.wv.gov/oil-and-gas/
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operation on the State: County: District: Quadrangle: Watershed: This Notice Shate Pursuant to We to be provided the provi	Doddridge Southwest Oxford Sheep Run Of South Fork Hughes River  Ill Include: set Virginia Code § 22-6A-16(c), this notice shall by W. Va. Code § 22-6A-10(b) to a surface own and (3) A proposed surface use and compensa d by oil and gas operations to the extent the datated to horizontal drilling may be obtained from ocated at 601 57th Street, SE, Charleston, WV 2	Public Road Acc Generally used include: (1)A copy of er whose land will be tion agreement conta mages are compensa n the Secretary, at th	Easting:  Northing: ess: farm name:  this code section; (2) sused in conjunction sining an offer of com ble under article six-te	516,422.780000 4,340,492.180000 RT 21 Haessly Land & Timber LLC The information required with the drilling of a spensation for damages to the of this chapter. Additional Environmental Protection
Pursuant to we				
Notice is hereb	st Virginia Code § 22-6A-16(c), notice is hereby	given that the under		St. Petersburg FL 33708 has developed a planned
Address:	25 Sheet	s Run Rd. Addre	55:	511 Boca Ciegga Point Blvd. North
(at the address Name:	listed in the records of the sheriff at the time o Haessly Land & Ti	/		Lucy E. Harper
	y provided to the SURFACE OWNER(s)	institution in		
the planned op- required to be p drilling of a hori damages to the	equested or hand delivery, give the surface ow eration. The notice required by this subsection provided by subsection (b), section ten of this a izontal well; and (3) A proposed surface use and surface affected by oil and gas operations to the required by this section shall be given to the su	shall include: (1) A control of the control of the compensation agreement the damage	opy of this code section ner whose land will be ement containing an o es are compensable u	on; (2) The information e used in conjunction with the offer of compensation for nder article six-b of this chapter.
	Va. Code § 22-6A-16(c), no later than the date			
	Land Land	AND ELIVERY		
		6A-16(c)		
☑ CERT	nod pursuant to West Virginia Code § 22-6	ACC 10 20 40 40		

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 contactoffice of Oil & Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received

SEP 0 8 2015

WW-6'A5	
(1/12)	

Operator Well No.

513066

### STATE OF WEST VIRGINIA

# DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Notice	equirement: notice shall be provided no late e: 9-1-15 D	r than the filing o ate Permit Appli		9-1-15
Delivery meth	od pursuant to West Virginia Code § 22-6A-	16(c)		
	IFIED MAIL HAN RN RECEIPT REQUESTED DELI	D VERY		
return receipt re the planned ope required to be p drilling of a hori damages to the	Va. Code § 22-6A-16(c), no later than the date for equested or hand delivery, give the surface owner eration. The notice required by this subsection shapped by subsection (b), section ten of this artice zontal well; and (3) A proposed surface use and consurface affected by oil and gas operations to the executive by this section shall be given to the surface.	whose land will be all include: (1) A co le to a surface own empensation agree extent the damage:	e used for the drilling of oy of this code section; her whose land will be u ment containing an offe s are compensable unde	a horizontal well notice of (2) The information sed in conjunction with the er of compensation for er article six-b of this chapter.
Notice is hereby	y provided to the SURFACE OWNER(s)			
(at the address I	listed in the records of the sheriff at the time of no	otice):		
Name:	I. L. (Ike) 1	Morris Name:		
Address:	PO Bo	ox 397 Addres	s:	
	Glenville WV	26351		
Pursuant to Wes	st Virginia Code § 22-6A-16(c), notice is hereby given			
Pursuant to West operation on the State:				
Pursuant to West operation on the State:	st Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling www.	a horizontal well or	the tract of land as foll Easting: Northing:	ows: 516,422.780000
Pursuant to Wes operation on the State: County: District:	st Virginia Code § 22-6A-16(c), notice is hereby give e surface owner's land for the purpose of drilling www	a horizontal well or UTM NAD 83	the tract of land as foll Easting: Northing:	ows: 516,422.780000 4,340,492.180000
Pursuant to West operation on the State: County: District: Quadrangle:	st Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling www	a horizontal well or UTM NAD 83 Public Road Acce	the tract of land as foll Easting: Northing:	ows: 516,422.780000 4,340,492.180000 RT 21
operation on the State: County: District: Quadrangle: Watershed: This Notice Shal Pursuant to Wes to be provided the horizontal well; surface affected information relations	st Virginia Code § 22-6A-16(c), notice is hereby give e surface owner's land for the purpose of drilling and but the purpose of the purpose	Public Road Acce Generally used for Whose land will be a agreement contages are compensable Secretary, at the	the tract of land as foll Easting: Northing: ess: arm name:  this code section; (2) Th used in conjunction with ining an offer of compended and the compension of the compensi	e information required the drilling of a mation for damages to the this chapter. Additional protection
Pursuant to Wesoperation on the State: County: District: Quadrangle: Watershed:  This Notice Shale Pursuant to Westo be provided the horizontal well; surface affected information related quarters, lepages/default.as	st Virginia Code § 22-6A-16(c), notice is hereby give e surface owner's land for the purpose of drilling and but the purpose of the purpose	Public Road Acce Generally used for Whose land will be a agreement contages are compensable Secretary, at the	the tract of land as foll Easting: Northing: ess: arm name:  this code section; (2) Th used in conjunction with ining an offer of compended and the compension of the compensi	e information required the drilling of a hasation for damages to the this chapter. Additional drironmental Protection www.gov/oil-and-gas/
Pursuant to Wesoperation on the State: County: District: Quadrangle: Watershed:  This Notice Shal Pursuant to Westo be provided thorizontal well; surface affected information relaheadquarters, left	st Virginia Code § 22-6A-16(c), notice is hereby give e surface owner's land for the purpose of drilling a WV  Doddridge Southwest Oxford Sheep Run Of South Fork Hughes River  Il Include: st Virginia Code § 22-6A-16(c), this notice shall incompany W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensation by oil and gas operations to the extent the dama ated to horizontal drilling may be obtained from the ocated at 601 57th Street, SE, Charleston, WV 253 spx.  EQT Production Company 304-848-0082	Public Road Acce Generally used for Inde: (1)A copy of whose land will be a agreement conta ges are compensative see Secretary, at the 104 (304-926-0450)	the tract of land as foll Easting: Northing: ess: erm name:  this code section; (2) Thused in conjunction withing an offer of compension of the compension o	e information required the drilling of a hasation for damages to the this chapter. Additional drironmental Protection www.gov/oil-and-gas/
Pursuant to Wesoperation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Westo be provided the horizontal well; surface affected information relaheadquarters, lopages/default.as	st Virginia Code § 22-6A-16(c), notice is hereby give e surface owner's land for the purpose of drilling a WV  Doddridge Southwest Oxford Sheep Run Of South Fork Hughes River  II Include: st Virginia Code § 22-6A-16(c), this notice shall include: and (3) A proposed surface use and compensation in the proposed surface use and compensat	Public Road Acce Generally used for Whose land will be a agreement contages are compensative Secretary, at the 04 (304-926-0450)	the tract of land as foll Easting: Northing: ess: erm name:  this code section; (2) Thused in conjunction withing an offer of compension of the compension o	e information required the drilling of a hasation for damages to the this chapter. Additional drironmental Protection www.gov/oil-and-gas/
Pursuant to Wesoperation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Westo be provided the horizontal well; surface affected information relabeadquarters, lepages/default.as  Well Operator: Telephone: Email:  Oil and Gas Priva	st Virginia Code § 22-6A-16(c), notice is hereby give e surface owner's land for the purpose of drilling and be surface owner's land for the purpose of drilling and be surface owner's land for the purpose of drilling and be sufface.    Doddridge	Public Road Acce Generally used for Whose land will be a agreement conta ges are compensative Secretary, at the 04 (304-926-0450)  Address: Bridgeport, V Facsimile:	the tract of land as foll Easting: Northing: ess: erm name:  this code section; (2) Thused in conjunction withing an offer of compension of the lander article six-b of the WV Department of Envor by visiting www.dep  115 Professional Place, WV 26330 304-848-0040	bows:  516,422.780000  4,340,492.180000  RT 21  Haessly Land & Timber LLC  e information required the drilling of a ansation for damages to the this chapter. Additional dironmental Protection  www.gov/oil-and-gas/  P.O. Box 280  Fecoived

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

SEP 08 2015



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

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

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

May 15, 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 OXF155 Pad, Doddridge County

513064 OXF155H1

513065 OXF155H2

513066 OXF155H3

513067 OXF155H4

513068 OXF155H5

513069 OXF155H6

Dear Mr. Martin,

Earl Ray Tomblin

Governor

This well site will be accessed from Permit # 04-2014-0427 applied for by EQT Production Company for access to the State Road for a well site located off of Doddridge County Route 23/2 SLS.

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

Very Truly Yours,

Gary K. Clayton

Regional Maintenance Engineer

Dary K. Clayton

Central Office O&G Coordinator

Cc: Nick Bumgardner

**EQT Production Company** 

CH. OM. D-4

File

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SEP 08 2015

02/12/2016

# Anticipated Frac Additives Chemical Names and CAS numbers

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

4701706757

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Office of Oil & Ga

SEP 08 2015

02/12/2016



West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

- Taita 121, 27173: 182	DEP Office Use o	niv
Date Received by C	il & Gas:	
Assigned Impoundn	nent ID #:	

# Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

Section 1 – Operator Information

EQT Production Company		
306686		
115 Professional Place		
Bridgeport	State: WV	Zip: 26330
Ron Furby		Sr. Mgr. Water Operations
412-395-7052		rfurby@eqt.com
	306686 115 Professional Place Bridgeport Ron Furby	306686  115 Professional Place  Bridgeport State: WV  Ron Furby Contact Title:

Section 2 – Engineering / Design Contractor Information

Design will be contracte	d 🖪 Designed in-house 🗆		
Company Name:	Hornor Brothers Engineers		
Address: Street	P.O. Box 386		
City:	Clarksburg	State: M	W Zip: 26302
Contact Name:	Thomas D. Corathers	Contact Title	
Contact Phone:		Contact Ema	
Certifying Professional E	- Thermas B. Cordiners		701
Professional Engineer R	egistration Number: 14161		L <sub>1</sub>
<u></u>			

Office of Oil & Gas



Office of Oil and Gas

# Section 3 - Impoundment / Pit Information

Type of Structure. Check one of				
☐ Freshwater Impoundm	ent	X	Waste Pit	
Note: Any waste in a pit will make	it a waste pit			
Name of Structure (Company N	lame :) E	QT-OXF 155 Comp	letion Pit	
County: Doddridge		Distric	t: Southwest an	d West Union
USGS 7.5' Quad Map Name:	OXFORD			
Farm Name:				
Pad Name: OXF 155				
Surface Owner Name: I.L. Mo				
				149 Site Access Road travel Northwesterly
				turn left, go 800' to completion pit on left.
(Note: Give general location, example:				· ·
Watershed (nearest perennial):			tributary to Big R	un
Distance (Drainage Distance) to	nearest pe	erennial stream:	approximately 1,03	30 feet to each
Location Coordinates (NAD83,			• •	
Latitude: 39.209547		ude (Use negative	sign):80.8055	559
		6492.653199 E	UTM 83-17NF:14	1238976.211983 N
Access Road Coordinates (junc	tion of state	highway access)		
Latitude: 39.203497	Long	itude (Use negative	e sign): -80.792	2680
UTM Coordinates : UTM	1 83-17NF:169	9145.657103 E	UTM 83-17NF:1	4236781.647751 N
Approximate Dimensions				
Length: 352'		226'	Height:	19'
Note: If irregularly shaped, give approxi	mate dimensio	ns of long axis.	_	
Total Capacity – Provide all unit	s of measu	re below:		
Barrels: _173,268	Gallons:	7,277,758	Acre-Feet:	22.335
			<del></del>	
Capacity with 2' Freeboad – Pro	vide all unit	s of measure below	<i>t</i> :	
Barrels: 148,521	Gallons:	6,238,314	Acre-Feet:	19.145
				-7
Incised volume:				6751
Barrels: 105,461	Gallons:	4,429,657	Acre-Feet:	13.594 106757
				1707
Net impounded volume: (Total v	olume less	incised volume.)		L.T V
Barrels: 67,807	Gallons:	2,848,101	Acre-Feet:	8.741
			<del></del>	
Anticipated Construction Start D	ate (estima	tion, non-binding):		اه .
Note: No construction may begin	on Associ	oated impoundme	nt until WVDEP i	ssues the drilling permit Precesived  & Gas, and the local Oil and Gas il & Gent / Pit Construct
aiciluai uays billor to contimed	CONSTRUCTIO	n start date notify t	ne Office of Oil S	Cae and the level Oil and Castil 2111

SEP 0 8 2015



**Section 4 - Associated Well Numbers and API Numbers.** List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

Well Number(s):	API Number(s) – If issued:
H1 513064	
H2 513065	
H3 513066	
H4 513067	
H5 513068 H6 513069	
H7 516483	
H8 516484	

Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

- Engineered Construction Plans, certified by WV Registered P.E.
- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- Reclamation Plan, certified by WV Registered P.E.

# Section 6 - Dam Standard Qualifying Evaluation

The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be represented by the structure with the Office of Oil and Gas.
The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx

Section 7 –Comments – Provide any additional comments concerning this project

A 7 0 6 7 5 7

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Office of Oil & Gas
SEP 0 8



## Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

	1//	7			
Name:	Victore	A V.	No mel	•	
Title:	permitt	ing Sup	ensor		
Signature:	The	1	1/		
Taken, subscribed and swe	orn to before me this	27	Dovef	Bus	20 15
	offi to befole the this,	01	_ Day of _	any	20 /
Notary Public:	fan le M	0	202		
My commission expires:		8-24-	22		
Notary Seal:					

## Section 9. Submittal Instructions

Submit original paper copy of application to:

4701706757 West Virginia Department of Environmental Protection

Office of Oil and Gas Impoundment Registration 601 57th Street, SE Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to : Depimpoundments@wv.gov

Received Office of Oil & Gas

STATE OF WEST VIRGINIA Pamela Sykes EQT Production O Box 280

My Commission Expires Aug. 24, 2022

SEP 08 7015



West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

	DEP Office Use only
Date Received	by Oil & Gas:
Assigned Impo	undment ID #:

# Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number with sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

# **Section 1 – Operator Information**

Operator Name:	<b>EQT Production Company</b>		
Operator ID:	306686		
Address: Street	115 Professional Place		
City:	Bridgeport	State: WV	Zip: 26330
Contact Name:	Ron Furby	Contact Title:	Sr. Mgr. Water Operations
Contact Phone:	412-395-7052	Contact Email:	

4701706757 Section 2 – Engineering / Design Contractor Information Design will be contracted ■ Designed in-house □ Company Name: Hornor Brothers Engineers Address: Street P.O. Box 386 City: Clarksburg State: Zip: W 26302 Thomas D. Corathers PE, PS Contact Name: Contact Title: Contact Phone: 304-624-6445 tom@hbe1902.com Contact Email: Certifying Professional Engineer: Thomas D. Corathers Professional Engineer Registration Number: 14161

Received
Office of Oil & Gas

SEP **0.8** 2015



Office of Oil and Gas

# Section 3 - Impoundment / Pit Information

Type of Structure. Check one of	of two choic	es below:		
☐ Freshwater Impoundm	ent	X	Waste Pit	
Note: Any waste in a pit will make	it a waste pi	t.		
	·			
No.		OT OVE 455 51		
Name of Structure (Company N	Name :) _E			
County: Doddridge	07.202		Southwest ar	nd West Union
USGS 7.5' Quad Map Name:	OXFORD			
Farm Name:				
Pad Name: OXF 155				
Surface Owner Name: I.L. Mo				
Physical Description of Location	n: From int	ersection Doddridge Co	Rte 23/2 & OXF	149 Site Access Road travel northwesterly
(Note: Cive general leasting account	AF 155 acco	ess turn left and travel	southwest 1800'	turn left, go 400' to flow back pit on left
(Note: Give general location, example:				· · · · · · · · · · · · · · · · · · ·
Watershed (nearest perennial):				
Distance (Drainage Distance) to	o nearest p	erennial stream: <u>a</u>	pproximately 1,0	30 feet to each
Lastin Carlin Marson				
Location Coordinates (NAD83, Latitude: 39.210235				
		tude (Use negative s		
			UTM 83-17NF:1	4239226.621075 N
Access Road Coordinates (junc Latitude: 39.203497				
		itude (Use negative		
UTM Coordinates : UTM	1 83-1/NF:16	99145.653103 E	UTM 83-17NF:1	4236781.647751 N
Annual Pina				
Approximate Dimensions Length: 186'	18 <i>C</i> 101	1051		1.5
Note: If irregularly shaped, give approxi		185'	Height: _	17'
		<u>-</u>		
Total Capacity – Provide all unit Barrels: 45,129				
Darreis. 40,120	_ Gallons:	1,895,557	Acre-Feet:	5.817
Conceits with 2' Freely and B				7 0 6 7 5 7
Capacity with 2' Freeboad – Pro Barrels: 35,544				4.582470170675
barrels. 33,344	Gallons:	1,492,957	Acre-Feet:	4.5824 /
Incised volume:				
Incised volume: Barrels: 17,288	0-11	706 147		
Daireis. 17,200	Gallons:	726,147	Acre-Feet:	2.228
Net impounded volume: /T-4-1	mluma e to c	to to the second		
Net impounded volume: (Total v Barrels: 27,841		•	_	0.500
Daileis	Gallons:	1,169,410	Acre-Feet:	3.589
Anticinated Construction Start D	oto (a-ti	Alam or a 1.1 H. A		
Anticipated Construction Start D Note: No construction may begin	ale (estima I on Assoc	ition, non-binding):	until MAA/DED:	Received
calendar days prior to confirmed	construction	on start date, notify th	e Office of Oil	Received issues the drilling perfifice less (7) & ( & Gas, and the local Oil and Gas
inspector of construction start da	ite. Use for	m IMP-2, "Notificatio	of Impoundm	ent / Pit Construction." SFP 08 2015



**Section 4 - Associated Well Numbers and API Numbers.** List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

Well Number(s):	API Number(s) – If issued:
H1 513064	
H2 513065	
H3 513066	
H4 513067	
H5 513068 H6 513069	
H7 516483	
H8 516484	

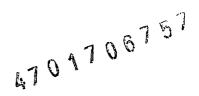
Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

- Engineered Construction Plans, certified by WV Registered P.E.
- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- Reclamation Plan, certified by WV Registered P.E.

# Section 6 - Dam Standard Qualifying Evaluation

The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas. The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx

Section 7 –Comments – Provide an	y additional cor	mments concerning	this project
----------------------------------	------------------	-------------------	--------------



Received
Office of Oil & Gas

SEP 0 8 2015



# Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas, I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

Name:	Victoria V. Kurnk
Title:	Dermitting Superisor
Signature:	The fr
Taken, subscribed and sworn to before	ore me this,
Notary Public:	lalida
My commission expires:	8-24-22
Notary Seal:	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC Pamela Sykes EQT Production PO Box 280 Bridgeport, WV 26330 My Commission Expires Aug. 24, 2022
Section 9. Submittal Instruct	ions 4701706757

# Section 9. Submittal Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection Office of Oil and Gas Impoundment Registration 601 57th Street, SE

Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to : Depimpoundments@wv.gov

Received

SEP 0 8 2015

FLOODPLAIN	1 COND	ITIONS	3
DO SITE CONSTRUCTON ACTIVITIES	TAKE PLACE IN F	LOODPLAIN	NO
PERMIT NEEDED FROM COUNTY FL	OODPLAIN COORD	NATOR:	NO
HEC-RAS STUDY COMPLETED:			TEA
FLOODPLAIN SHOWN ON DRAWINGS:		NA	
FIRM MAP NUMBER(S) FOR SITE:	54017C0225C		
ACREAGES OF CONSTRUCTION IN F	FLOODPLAIN	N/A	

#### PROPOSED WELL LEGEND

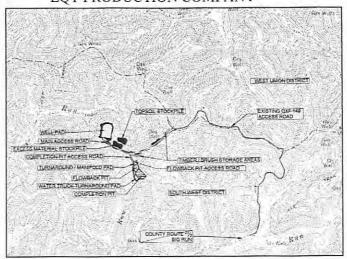
H8 516484 - LAT: 39.213754 / LONG:-80.809732 516483 - LAT: 39.213713 / LONG:-80.809739 513069 - LAT: 39.213673 / LONG:-80.809747 H5 513068 - LAT: 39.213632 / LONG:-80.809754 513067 - LAT: 39.213591 / LONG:-80.809762 513066 - LAT: 39.213550 / LONG:-80.809769 513065 - LAT: 39.213510 / LONG:-80.809777 H1 513064 - LAT: 39.213469 / LONG:-80.809784

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!!



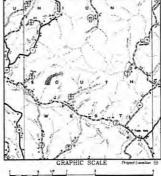
# **OXF 155**

## FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS** EOT PRODUCTION COMPANY









Project Contacts

Chris Metzgar - EQT Production Company 304-848-0075 Off.

Billy Miller - Landman II-Drilling EQT Production Company 304-627-0367 Mobile 304-848-0039 Office

Surveyor & Engineer

Ben Singleton - PS - Allegheny Surveys Inc. 304-649-8506 Off

Thomas D. Corethers - PE . PS- Homor Brothers Engineers 304-524-5445 Office

Design Certification

The drawings, construction notes, and reference degrams attached herebs have been prepared in accordance with the West Vergins Code of Shise Rules, Distant of Endocromental Production, Office of Old and Gas §35-5-11. The information reference temporary like a place of The computed above grade storage volume is least than 15 acre Net. Rilling method purpose, these point all face Net.



West Virginia Coordinate System of 1981 State Plane Grid North Elevations NAVD88 Established By Survey Grade GPS

WEST UNION DISTRICT DODDRIDGE COUNTY, WY

MAIN MCCEST ROAD - 0.78 ACRE TIMBER REMOVAL + DET ACPES

AFFECTED PROPERTIES SOUTHWEST DISTRICT DODGRIDGE COUNTY WY

HASSICY LAND & TIMBER, LLC 815 ACRES SITE DISTURBANCE

MAIN ACCESS ROAD + 8.34 ACRES
COMPLETION PLT ACCESS ROAD + 9 17 ACRES
TOPSOL ATDOMPLE + 2.53 ACRES
ENCESS MATERIAL STOCKPILE + 2.53 ACRES

COMPLETION PIT • 1 40 ACRES PLOMBACA ACCESS E MANY OLD PLOMBACA PIT • 1 30 ACRES

DMISER REMOVAL . F. PE ACRES EXISTING WELLS ROLESS ROAD . 10 3H ACRE

APPROVED WVDEP OOG 9 3 1 9/29/2015

SHEET INDEX

CONSTRUCTION, GENERAL AND EAS NOTES
4
VORTINEW PLAN
5
EXISTING ACCESS ROAD
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FLOWARCK HIT ACCE

EXISTING CONDITIONS PLAN -SCHEDULE OF QUANTITIES - -

CONSTRUCTION DETAILS - - -RECLAMATION PLANS --

CONSTRUCTION, GENERAL AND EAS NOTES





Engineers
Engineering

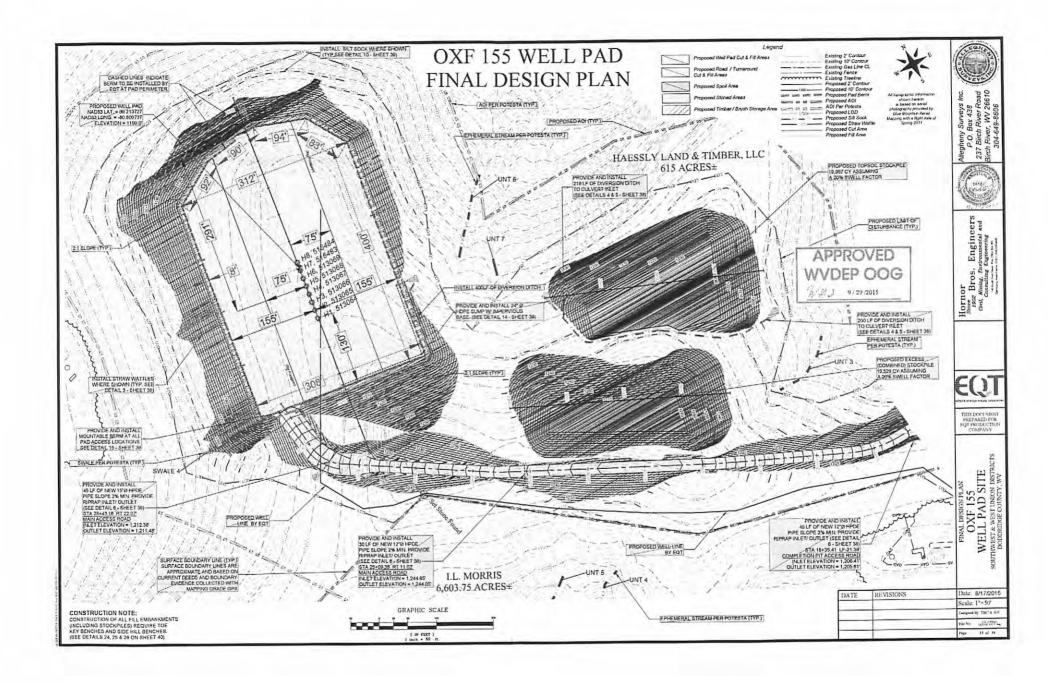
THIS INCUMENT PREPARED FOR BOT PRODUCTION COMPANY

INAL SITE DESIGN COVER SHEET

OXF 155

WELL PAD SITE
INMEST & WEST UNION DISTRICTS
DODDRINGE OF WASTON, WY

Date 8/17/2015 DATE REVISIONS Scale: N.A. wigned by TBC A JUS Page 1 of 49





FLOODPLAIN	V CONDI	TIONS	;
DO SITE CONSTRUCTON ACTIVITIES	S TAKE PLACE IN FL	COUPLAIN	NO
PERMIT NEEDED FROM COUNTY FL	COOPLAIN COORDI	NATOR	NO
HEC FAS STUDY COMPLETED		NA	
FLOODPLAIN SHOWN ON DRAWINGS:		N/A	
FIRM MAP NUMBER(S) FOR SITE 54017C0225C			
ACREAGES OF CONSTRUCTION IN	FLOODPLAIN	N/A	

### PROPOSED WELL LEGEND

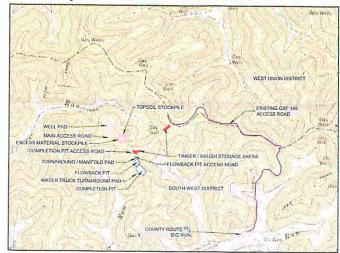
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H7	516483 - LAT: 39.213713	
H6	513069 - LAT: 39.213673	
H5	513068 - LAT: 39.213632	
H4	513067 - LAT: 39.213591	
H3	513066 - LAT: 39.213550	/ LONG:-80.809769
H2	513065 - LAT: 39.213510	/ LONG:-80.809777
H1	513064 - LAT: 39.213469	/ LONG:-80.809784

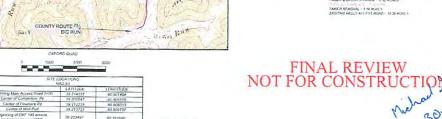
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# **OXF 155**

# FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS EQT PRODUCTION COMPANY**





Chris Metzgar - EQT Production Company 304-848-0075 Off



# SHEET INDEX

MAN ACCESS ROAD - # 40 ACRES

333

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Billy Miler - Landman II Onling EOT Production Company 304-67 2635 Mubble 304-646-6237 Mubble Surveys & Ergmon Surveys & Ergm	EXISTING CON- SCHEDULE OF CONSTRUCTION OVERVIEW PL EXISTING ACC FINAL DESIGN WELL PAD PR COMPLETION FLOWBACK PI WELL PAD ACC COMPLETION FLOWBACK PI EXISTING ACC	JESS ROAD  I PLANS  OFILE & CHOSS SEC  PIT PROFILE & CROSS CESS PROFILE & CROSS CESS PROFILE & CROSS CESS PROFILE T ACCESS PROFILE CESS ROAD PROFILE CESS ROAD CROSS ON DETAILS	CTIONS SS SECTIONS S SECTIONS HOSS SECTIONS LE & CROSS SECTIONS & CROSS SECTIONS	1 2 3 4 5 6-10 11-13 14-17 18 19 20-23 24 25-27 28-35 36-38 39-48	
cagrams attached hereis have been prepared in accordance with the West Virgina Code of State Ruins. Division of Environmental Protection, Office of Dil and Gas §35-4-21 The information reflects a temporary frac pit point. The computed above grided storage volume is less than 15 warn feet. filling method pumpert, frac. point is fired.		DATE	REVISIONS		

FINAL SITE DESIGN COVER SHEET  OXF 155  WELL PAD SITE SOUTHWEST & WEST UNION DISTRIC DODDRIDGE COUNTY, WY
Date: 8/12/2015
Scale: N.A.
Doogned By: YHU & JUF

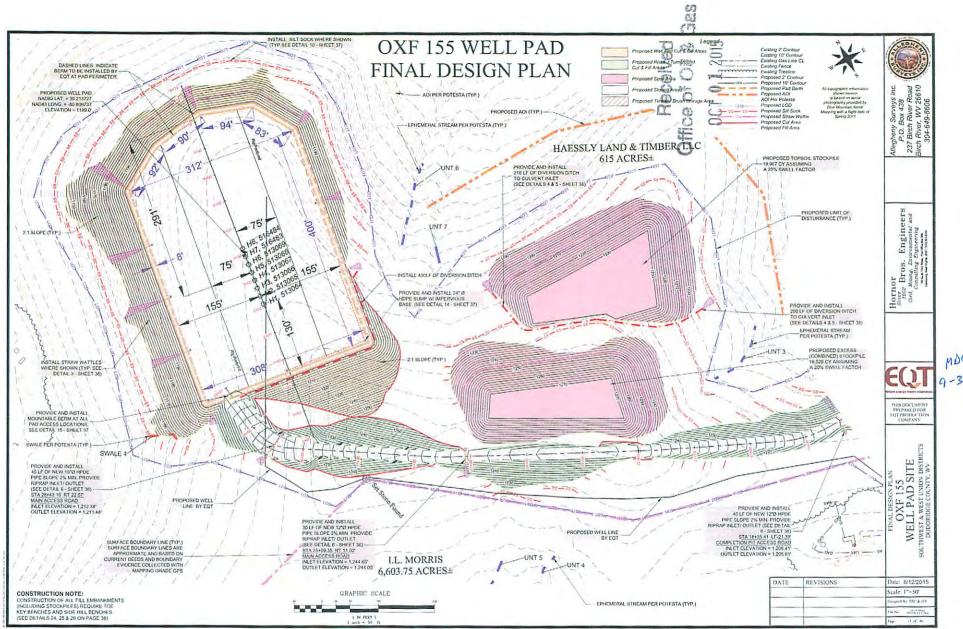
Allegheny S P.O. Bo 237 Birch F Birch River,

Hornor
Since Since Engineers
Ovil, Minng, Environmental and
Consulting Engineering

RECLAMATION PLANS	
CONSTRUCTION DETAILS	
EXISTING ACCESS ROAD CROSS SECTIONS	
EXISTING ACCESS ROAD PROFILE	
FLOWBACK PIT ACCESS PROFILE & CROSS SECTIONS	
COMPLETION PIT ACCESS PROFILE & CROSS SECTIONS	i
WELL PAD ACCESS PROFILE & CROSS SECTIONS	

DATE	REVISIONS	Date: 8/12/2015	
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		Title No. position	
		Page 2 of 46	

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MDG 9-30-15