

#### 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: 47-1706760, 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: 513069

Farm Name: HAESSLY LAND & TIMBER, LLC

API Well Number: 47-1706760

Permit Type: Horizontal 6A Well

Date Issued: 02/09/2016

API Number:	

### PERMIT CONDITIONS 47 0 1 7 0 6 7 6 0

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.



#### west virginia department of environmental protection

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 T. Brewer

Environmental Resource Specialist

Charles. T. Brue

WVDEP Office of Oil and Gas

601 57th Street, SE

Charleston, WV 25304

304-926-0499 ext. 1547



Received Office of Oil & Gas NOV 18 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 the future". The removal of some timber is a necessary component of developing the mineral estate 2/2016

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 &

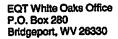
Member

cc: Victoria J. Roark, EQT Permitting Supervisor

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Office of Located Gas

SEP : 4 \_J15

WV ( iment of Env. ) all Protection





#### **CERTIFIED MAIL**

Haessly Land & Timber LLC 25 Sheets Run Rd. Marietta OH 45750

Dear

Sir or Madam

513064, 513065, 513066, 513067,

Re: Proposed

513068,513069

Gas Well

Southwest District,

Doddridge

 $\overline{\mathsf{wv}}$ County,

Pursuant to Section 22B-1-9 of the West Virginia Code, enclosed please find copies of the following documents:

O Form WW-6A

Notice of Application for a Well Work Permit (1 copy)

O Form WW-6A(1) Lessor/Lessee Disclosure (1 copy)

O Form WW-6B

Application for a Weil Work Permit (1 copy) Well Location Plat Certified Copy of WVDEP Well Location Plat

O Form WW-9

Reclamation Plan and Site Registration Application (1 copy)

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Water Management Plan

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Well Site Safety Plan

This application is being filed by EQT Production with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to this well being drilled, please sign the Waiver on Form WW-6AW and return one copy to our office.

Thank you for your cooperation and consideration. Should you have any questions, comments, or require any additional information, please feel free to contact me at (304) 848-0082.

Sincerely,

EQT PRODUCTION COMPANY

Victoria J. Roark Permitting Supervisor-WV

Enclosures

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API NO. 47 OPERATOR WELL NO.

513069 Well Pad Name: OXF155

STATE OF WEST VIRGINIA

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

1) Well Operator: EQT Production Company	306686	017	7	526
	Operator ID	County	District	Quadrangle
2) Operator's Well Number:5	13069	_Well Pad Nar	ne:	OXF155
3) Farm Name/Surface Owner : Haessly La	and & Timber LLC	_ Public Road	Access:	RT 21
4) Elevation, current ground: 1,212.5	Elevation, proposed p	oost-constructio	n: <sub>6</sub> 0 1,199	<del>)</del> .0
5) Well Type: (a) Gas Oil	Underground Stor	age 06		
Other	470	1.		
(b) If Gas: Shallow	Deep			
Horizontal	•			Mie
6) Existing Pad? Yes or No:no				9.
7) Proposed Target Formation(s), Depth(s), Anticipal Target formation is Marcellus at a depth of 6635 w.	vith the anticipated thickness to	be 57 feet and ar		essure of 2951 PSI
	Top of Marcellus is 66			
8) Proposed Total Vertical Depth:		6635		
		Marcellus		
Proposed Total Measured Depth:     Proposed Horizontal Leg Length		10,170 2,870		
12) Approximate Fresh Water Strata Depths:		59, 183, 204,	262 /19	
13) Method to Determine Fresh Water Depth:		By offset		
14) Approximate Coltustor Donthor		1,397		
15) Approximate Coal Seam Depths:		132, 252, 292, 5	32	
16) Approximate Depth to Possible Void (coal mine,	CHECKING THE STREET		None re	ported
17)Does proposed well location contain coal seams	directly overlying or	-		
adjacent to an active mine?	Y	'es	No <u>x</u>	
(a) If Yes, provide Mine Info: Name:				
Double				
Seam:	NATURE OF THE PARTY OF THE PARTY.			

Page 1 of 3

Received Office of Oil & Gas OCT 0 1 2015

ww	-	6B
(4/15	(	

APINO. <u>47</u> - <u>017</u>	
PERATOR WELL NO.	513069
Well Pad Name:	OXF155

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

18)	
-----	--

TYPE	<u>Size</u>	New	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	10,170	10,170	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TO
Liners							

MBG 9-80-15

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

#### <u>Packers</u>

Kind:	N/A		
Sizes:	N/A	!	
Depths Set:	N/A		760

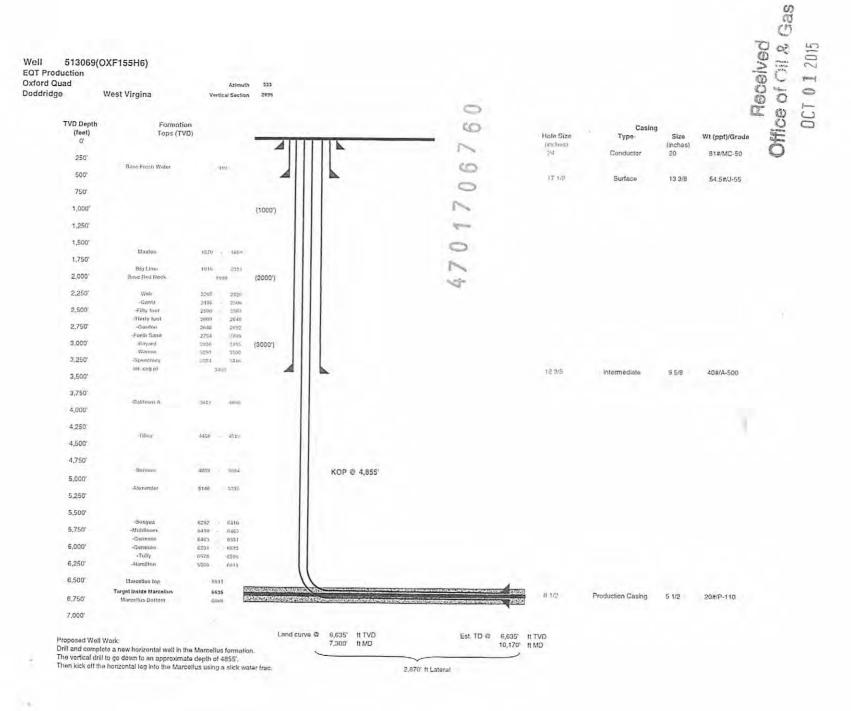
Note 1: EQT plans to bring the TOC on the production casing cement job 1,000 above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

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

Page 2 of 3

Received
Office of Oil & Gas
OCT 0 1 2015

WW - 6B	API NO. <u>47</u>	017	
(10/14)	OPERATOR WELL NO.	5130	
	Well Pad Name:	OXFI	55
19) Describe proposed well work, including the drilling and plugging back of any pilot ho	ole:		400 G-31
Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an ap	oproximate depth of 4855.		G-3
Then kick off the horizontal leg into the Marcellus formation using a slick water frac.			
20) Describe fracturing/stimulating methods in detail, including anticipated max pressur	e and max rate:		
hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fr reshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (inc			
pelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickw		<u>,                                      </u>	
anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipated tre			
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels ovary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.	f water per stage. Sand size	<u> </u>	
vary from 100 mean to 20140 mean. Average approximately 200,000 poolids of saint per dage.		<del></del>	
21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres):	42.0		
22) Area to be disturbed for well pad only, less access road (acres):	21.63		
23) Describe centralizer placement for each casing string. Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.			
	00'.	^	
Production: One spaced every 1000' from KOP to Int csg shoe 470	170676	V	
•	pe 1 Cement): 0-3% Calciu		
Used to speed the setting of cement slurries.	11.1.5		
0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a ntermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature form		of cement	
slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling			
to a thief zone.			
Production:			
Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.			
0.3% CFR (dispersant). Makes cement easier to mix.			
Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.			
0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.			
60 % Calcuim Carbonate. Acid solubility.			
0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.			
3.1 0.0 % Halad (mail 1000), 1100 and 1			
25) Proposed borehole conditioning procedures. <u>Surface</u> : Circulate hole clean (Approximate	ely 30-45 minutes) rotating 8	& reciprocating	
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, cont			
minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, br			
and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicate		lean up.	
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full join			
surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minu		Received	_
nole cleaning use a soap sweep or increase injection rate & foam concentration.		AHICE OF CHI &	Gas
	oles hottoms un volume	OCT 0 1 2015	
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge h		000	
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volur	me or cuttings coming acr	USS	
the shakers every 15 minutes.		-	
*Note: Attach additional sheets as needed.			



		roduction				
County	513069(OXF155H6) Doddridge West Virgina /			Elevation KB: Targot Prospect Azimuth Vertical Section	1212 Marcellus 333 2895	
o <sup>,</sup> —	·	۵       ۵	<b>—</b> о.	Hole Size 24" - 20" Conductor at 40" Bit Size 17.5"		
500' —	419' Fresh Water Base		500'	TOC © Surface 13 3/8", MC-50, 54.5# © Bit Size 12,375"	569' ft MD	
1,000' —			<b>— 1,000</b> °			
1,500' —	1,570' Maxton		<b>—</b> 1,500'			
2,000' —	1,915' Big Lime 1,930' Base Red Rock 2,205' Weir		<b>—</b> 2,000'			
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 3,253' -Warren 3,324' -Speechley		<b>—</b> з,000·			
	3,466' Int. csg pt		<b></b> 3,500°	TOC @ 9 9 5/8°, MC-50, 40¢ @ Bil Size 8.6°	Surface 3,466' fl MD	
4,000' —	3,842' -Balltown A		<b>—</b> 4,000°			
4,500° —	4,456' -Riley		<b>—</b> 4,500°			
5 000'	4,889' -Benson 5,146' -Alexander		<b>—</b> 5,000°	KOP = 10 Deg DLS	4,855' ft MD	
5,500' —			<b>—</b> 5,500'	4701	706760	
0,000 —	5,282' -Scnyea 5,410' -Middlesex 5,463' -Genesee 5,531' -Geneseo		<del></del> 6,000°		00/60	
6,500' —	3,573' -Tully 5,596' -Hamilton 5,611' -Marcellus 5,668' Oriondaga		<b>—</b> 6,500'	Land <b>⊕</b> 5 1/2", P-110, 20#	7,300' ft MD 6,635' ft TVD	
7,000' —			<b>—</b> 7,000°		Office of Oil & G.  OCT 0 1 2015	as
7,500' —			<b>—</b> 7,500°		-0, 0 T 7013	
8,000'			8,000'			



April 2, 2015

April 2, 2012

Mr. Gene Smith

West Virginia Department of Environmental Protection

Occion of Oil and Gas

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

Dear Mr. Smith.

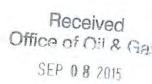
EQT is requesting the 13-3/8" surface casing be set at 569' KB, 150' below the deepest fresh water. We will set the 9-5/8" intermediate string at 3466' KB, 50' below the base of the Speechley formation.

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

Sincerely,

Vicki Roark Permitting Supervisor - WV

Enc.





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

4701706760

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

/I----- D------

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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

#### 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	j		

#### REPORT OF THE OFFICE

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

#### FINDINGS OF FACT

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

4701706760

Promoting a healthy environment.

Received
Office of OB & Gas
SEP # 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

Received
Office of Oil & Gas
SEP 0 8 2015

4701706760

WW-9 (2/15)

	Page	1	of	2
API No. 47	017	7 _	_	0
Operator's V	/ell No			513069

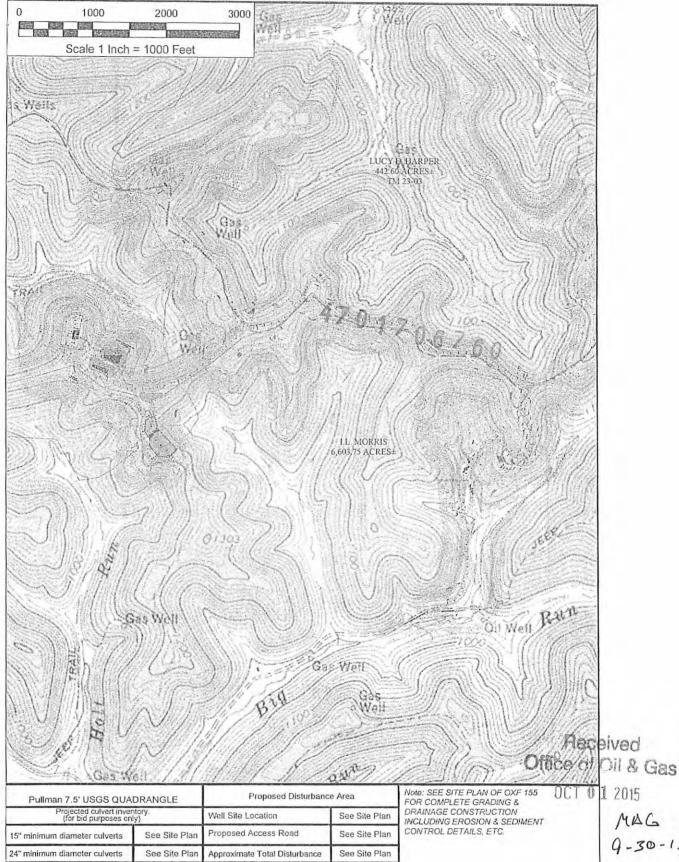
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name	EQT Production Company	OP Code	306686	
	Sheep Run Of South Fork Hughes River			<del></del>
<del></del>	more than 5,000 bbls of water to comp	·		<del>_</del>
Will a pit be used ? Yes				<del></del>
If so please des	scribe anticipated pit waste:	flowback water & re	sidual solids	
Will a synthetic	finer be used in the pit? Yes X	NoIf so	o, what ml.?60	
Proposed Disp	posal Method For Treated Pit Wastes:			
	Land Application	D '141 1 00		
	<ul> <li>Underground Injection ( UIC</li> <li>Reuse (at API Number</li> </ul>	Permit Number 00 Various	14, 8462, 4037	1
	<ul> <li>Off Site Disposal (Supply form</li> </ul>	n WW-9 for disposal loca	ation)	
		<del></del>		T WPC
	be used? Yes, The closed loop system			_ 4-30-15
fluid. The drill cuttings ar	e then prepared for transportation to an off-s	ite disposal facility.		
Drilling medium anticipa	ated for this well (vertical and horizontal	? Air, freshwater, oil bas	ed, etc.	
Air is used to drill the top-hole section:	s of the wellbore (surface, intermediate, and pilot). Water based	mud may be necessary depending on h	ole conditions to stabilize	
and drill the intermediate section. The	e pilot hole, curve, and lateral sections will be drilled with either a	ir, water based mud, or oil based mud.		<del>_</del>
				<del></del>
- If oil based	, what type? Synthetic, petroleum, etc	Synthe	etic mud	
Additives to be used in	· · · · · · · · · · · · · · · · · · ·	bricant , detergent, defoaming, water.		
alkalinity control, lime, filtratio	on control, deflocculates, biodegradable oil lubrica	nt , defoaming, walnut shell, sa	lt, x-cide, carbonates.	<del></del>
Oil based mud – synthetic b	ase oil, emulsifier, salt, lime, viscosifer, alkalinity o	ontrol, filtration control, defloc	uAles 7 0 1 7 0	<del>€</del> 760
biodegradable oil lubricant, o	defoaming, carbonates.	<u> </u>		<del>-</del>
Drill cuttings disposal	method? Leave in pit, landfill, removed	offsite etc	Landfill	
	nd plan to solidify what medium will be used? (Cer		n/a	<del></del>
- Landfill or of	fsite name/permit number?	See Attached	List	<del></del>
	ritten notice to the Office of Oil and Gas of a aste facility. The notice shall be provided wil perly disposed			
alsolose where it was proj	porty dioposed.	·····	· · · · · · · · · · · · · · · · · · ·	
•	and and agree to the terms and conditions of the			
	ffice of Oll and Gas of the West Virginia Departme enforceable by law. Violations of any term or cond			
or regulation can lead to enfo	orcement action.			
I certify under penalty	of law that I have personally examined and am fa	amiliar with the information sub	mitted on this	_
• •	thments thereto and that, based on my inquiry of	•		Ar: Received
	t the information is true, accurate, and complete. including the possibility of fine or imprisonment.	am aware that there are signi	ficant penalties for	Unice of Oil & Oa
Joseph Maria		× 1/~	<del></del>	OCT 0 1 2015
Company Official Signa Company Official (Type		Vietoria J. Roark		001 01 2015
Company Official Title	·	mitting Supervisor		
Subscribed and sworn	before me this day of	Sent	.20 /5	Madue
Valorio de la composition della composition dell			# common	
	la ///		_Notiny	STATE OF WEST VIRGINIA
My commission expires	s	4-22		Pamela Sykes
				EQT Production PO Box 280 Bridgeport Wy 163/02 0 1 5
				dy Commission Expires Aug. 24, 2022

			•	ell No.	
Proposed Revegetation Tre	eatment: Acres Dist	urbed 42.01	Pre	vegetation pH _	6
Lime	Tons/acre or to correct to pH			6.5	
Fertilize type	Granular	10-20-20			
Fertilizer Amount	1/3	lbs/acre (500 lbs n	ninimum)		
Mulch	2	Tons	/acre		
		Seed Mixture	S		
Temp	porary		Pe	ermanent	
Seed Type	lbs/acre 40		eed Type ard Grass	lbs/ad	cre
KY-31	40				
Alsike Clover	5	Alsike	Clover	5	
Annual Rye	15				
Photocopied section of invi		area for land applicatio nic sheet.	n.		
Photocopied section of inverse Plan Approved by:  Comments: Pres	colved 7.5' topograph	Mulch o	Mainte	listurbec	parao
Photocopied section of inverse Plan Approved by: Mu Comments: Pres	colved 7.5' topograph	Mulch a	Mainte	sin 4 u	parao
Photocopied section of inverse Plan Approved by: Mu Comments: Pres	colved 7.5' topograph	Mulch a	Mainte	sin 4 u	parao
Photocopied section of inverse Plan Approved by: Mu Comments: Pres	colved 7.5' topograph	Mulch a	Mainte	sin 4 u	Agrao
Photocopied section of inverse Plan Approved by:  Comments: Pres  Per WVAE  S-n-s o	seed & Pregul	Mulch o ations,	Maint	3.'n 4 u	Agrao
Photocopied section of inverse Plan Approved by: Mu Comments: Pres	seed & Pregul	Mulch o ations, ssary.	Mainte	3.'n 4 u	Agrao

Received
Office of Oil & Gas
OCT 0 1 2015



Dale Tomlin PS

SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC.

239-13

1-800-482-8606 Birch River Office

Phone: (304) 649-8606 Fax: (304) 649-8608

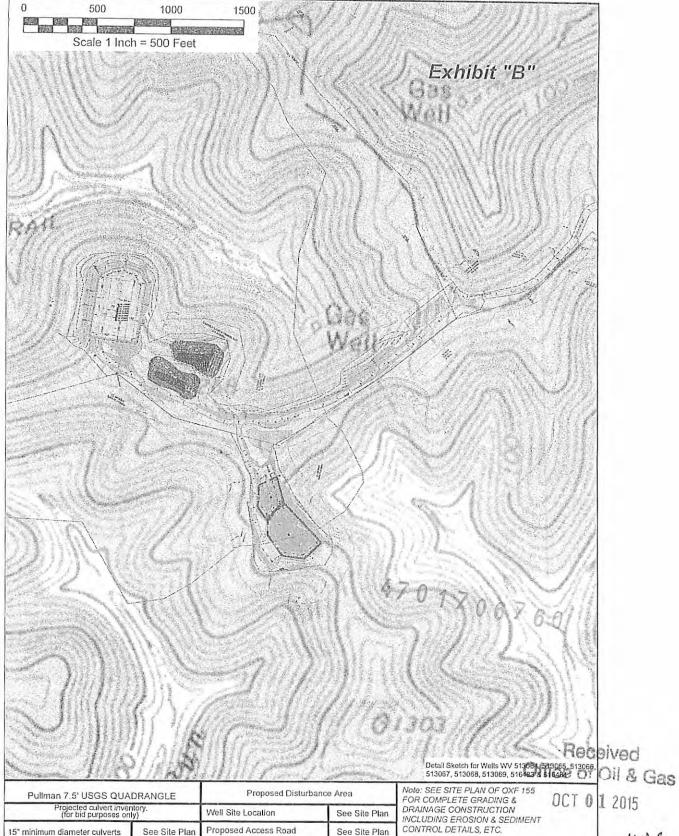
August 13, 2015

237 Birch River Road P.O. Box 438 Birch River, WV 26610

239-13 Rec Plan.dwg

MAG 9-30-15

02/12/2016



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 Dale Tomlin PS 239-13 239-13 Rec Plan dwg

SURVEYING AND MAPPING SERVICES PERFORMED BY:

#### ALLEGHENY SURVEYS, INC. 1-800-482-8606

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608

237 Birch River Road P.O. Box 438 Birch River, WV 26610 OCT 0 1 2015

MAG 9-30-15

02/12/2016

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

#### CWS TRUCKING INC.

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

#### LAD LIQUID ASSETS DISPOSAL INC.

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

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

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

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

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

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

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

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

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

#### **TRIAD ENERGY**

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

#### KING EXCAVATING CO.

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

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Office of Oil & Gas

SEP 08 2015



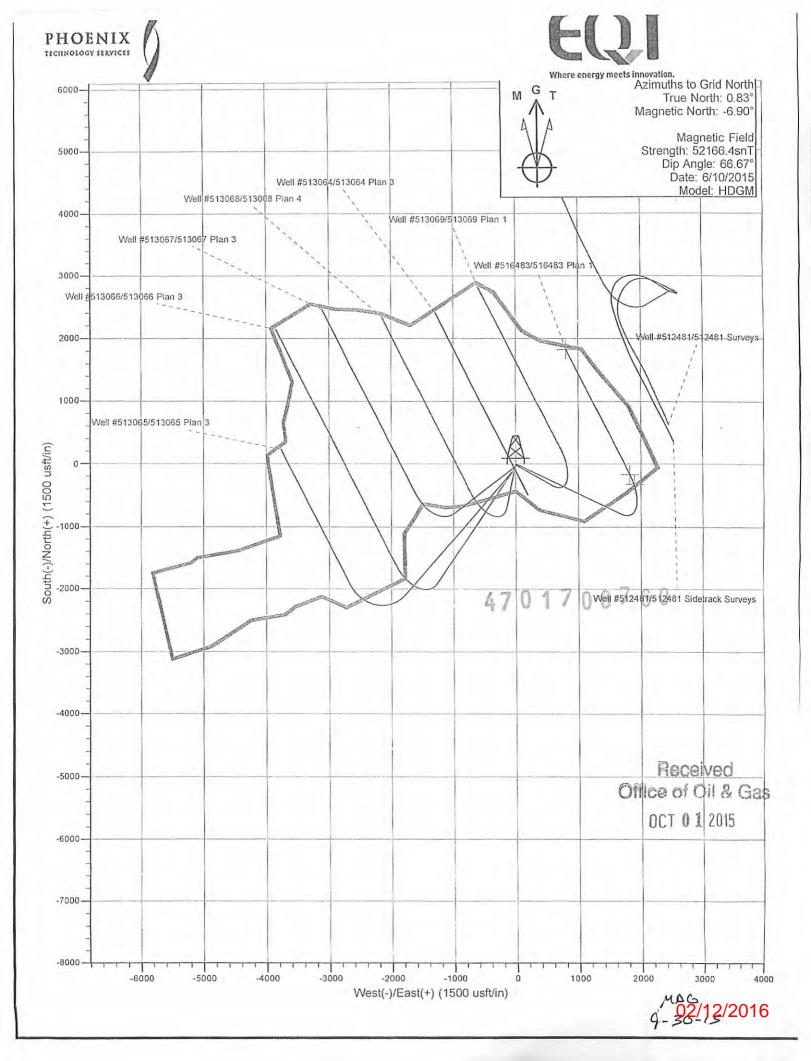
# Site Specific Safety Plan

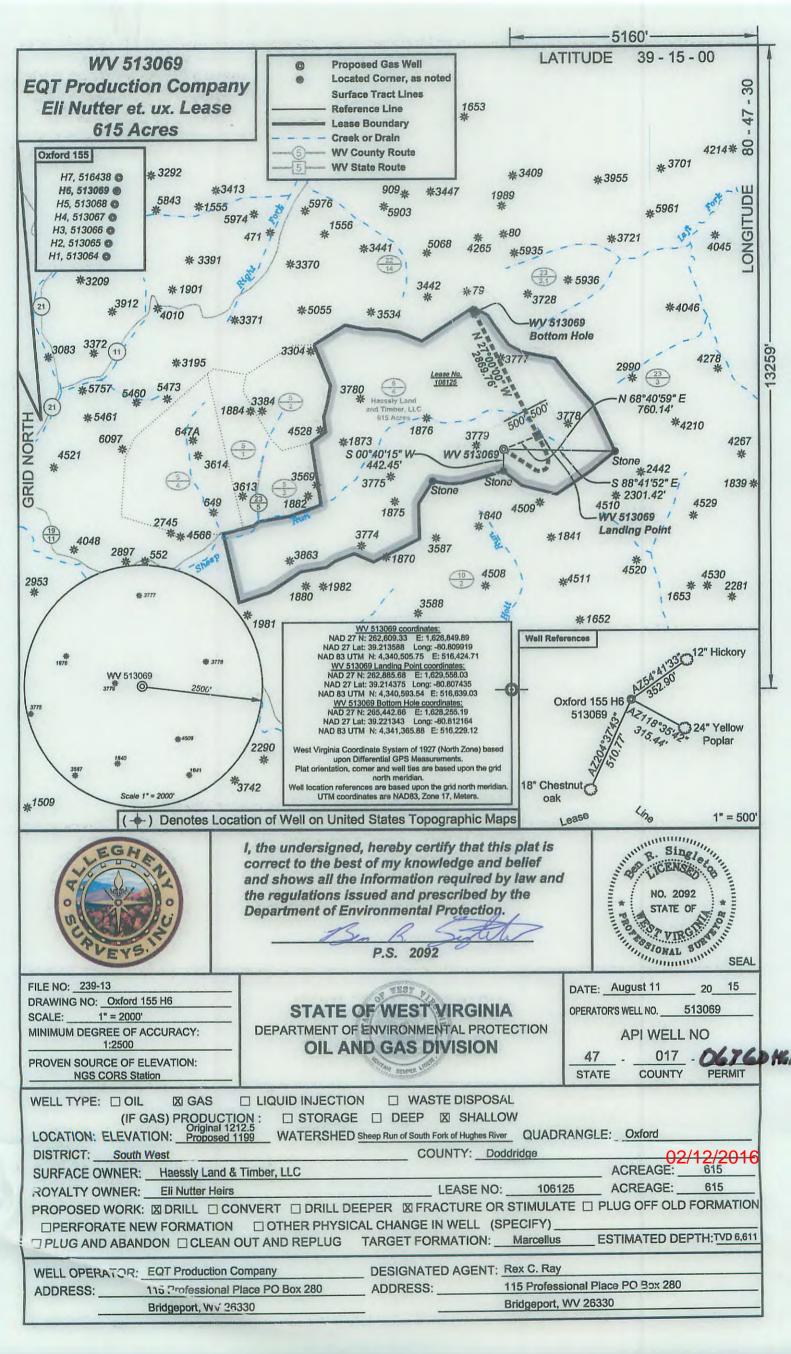
# EQT OXF155 Pad

## Oxford

Doddridge County, WV

513069	For Wells:		
		4701	706760
EQTIProduction  Deponttling Separis  Title	or	h 27, 2015  Wolf and Gas Inspector  itle  9-30-15	Received Office of Oil & Gas
Date	D	Pate	





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

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

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

Lease Name of Number	r Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
106125			Min 1/8 pd	
	Eli Nutter and Mary Nutter	J.L. Newman		LB21/211
	J.L. Newman	The Philadelphia Company of Wes	t 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	<b>Equitable Production Company</b>		DB433/738
	Equitable Production Company	EQT Production Company		CB281/346

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 4701706760 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 the following:

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

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

Well Operator: EQT Production Company

By: Received
Permitting Supervisor Page 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	tice Certification: 9-1-1	15 AP	PI No. 47 - 017	, - 0
Date of 110	nos commodiom		perator's Well No.	513069
			ell Pad Name:	OXF155
Notice has	been given:			
Pursuant to	the provisions in West Virginia	Code § 22-6A, the Operator has provided the	required parties with	the Notice Forms listed
	e tract of land as follows:		State Children States	
State:	WV	UTM NAD 83 Easting:		516,424.71
County:	Doddridge	UTM NAD 83 Northing:		4,340,505.75
District:	Southwest	Public Road Access:		RT 21
Quadrangle:	Oxford	Generally used farm name:	Haes	sly Land & Timber LLC
Watershed:	Sheep Run Of South Fork I	Hughes River		
Virginia Cod of this article Pursuant to that the Ope *PLEASE C	le § 22-6A-11(b), the applicant see have been completed by the an week west Virginia Code § 22-6A, the rator has properly served the received the THAT APPLY	e Operator has attached proof to this Notice Cequired parties with the following:	y that the notice requ	OOG OFFICE USE ONLY  RECEIVED/NOT REQUIRED
		NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCT	A Committee of the Comm	HEGOINED
NOTICE	OF ENTRY FOR PLAT SU	JRVEY or ▼ NO PLAT SURVEY WAS	CONDUCTED	RECEIVED
▼ NOTICE	E OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SU WAS CONDUCTED OR		RECEIVED/NOT REQUIRED
▼ NOTICE	E OF PLANNED OPERATIO	WRITTEN WAIVER BY SURFACE (PLEASE ATTACH), 7 0 1 7 0	OWNER 6 7 6 0	⊏ RECEIVED
▼ PUBLIC	NOTICE			RECEIVED
▼ NOTICE	E OF APPLICATION			RECENTEGOIVED Office of Oil & Ga

#### Required Attachments:

SEP 08 2015

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

WW-6AC (1/12)

Certification of No	tide	ie k	erek	Av a	wen.
certification of ive	rige	13 1	10.0	y A	iveii.

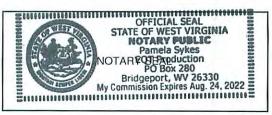
THEREFORE, I \_\_\_\_\_\_\_, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered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

 Well Operator:
 EQT Production Company
 Address:
 P.O. Box 280

 By:
 Victoria J. Roark
 Bridgeport, WV 26330

 Its:
 Permitting Supervisor
 Facsimile:
 304-848-0040

 Telephone:
 304-848-0076
 Email:
 vroark@eqt.com



Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_

My Commission Expires R-24-22

#### Oil and Gas Privacy Notice:

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

Received
Office of Oil & Gas
SEP 0 8 2015

4701706760

Notary Public

WW-6A (9-13)

API NO.	47		017	-	0
OPERATOR	R WEL	L NO.			513069
Well Pad	Nam	e:			OXF155

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

		A STATE OF THE STA
	notice shall be provided no later than the filing	
Date of Notice:	Date Permit Application Fil	ed: <u>9-1-15</u>
Notice of		
Notice of:		
☑ PERMIT FOR ANY	☐ CERTIFICATE OF APPRO	OVAL FOR THE
WELL WORK	CONSTRUCTION OF AN	IMPOUNDMENT OR PIT
	to Wast Vissinia Code \$ 22.64.10(b)	
Denvery method pursuant	to West Virginia Code § 22-6A-10(b)	
PERSONAL	☐ REGISTERED ☑ M	ETHOD OF DELIVERY THAT REQUIRES A
SERVICE		ECEIPT OR SIGNATURE CONFIRMATION
for the construction of requires a receipt or sig plat to each of the follothe surface tract or trac disturbance as describe lessee, in the event the record of the surface trac construction, enlargementar purveyor who is which is used to provid work activity is to take in the lands, the applicanticle one, chapter elevantess the lien holder is	an impoundment or pit as required by gnature confirmation, copies of the appropriation of the appropriation of the appropriation of the color of the erosion and sediment control tract of land on which the well propose act or tracts overlying the oil and gas leent, alteration, repair, removal or abanknown to the applicant to have a water lee water for consumption by humans of place. (c)(1) If more than three tenants and may serve the documents required wen-a of this code. (2) Notwithstandings the landowner. W. Va. Code R. § 35-any water purveyor or surface owner surface	and date of the application, the applicant for a permit for any well work or for this article shall deliver, by personal service or by registered mail or by any olication, the erosion and sediment control plan required by section seven of any of the surface of the tract on which the well is or is proposed to be located; being developed by the proposed well work, if the surface tract is to be used plan submitted pursuant to subsection (c), section seven of this article; (3) ed to be drilled is located [sic] is known to be underlain by one or more coal easehold being developed by the proposed well work, if the surface tract is to donment of any impoundment or pit as described in section nine of this well, spring or water supply source located within one thousand five or domestic animals; and (6) The operator of any natural gas storage field in common or other co-owners of interests described in subsection (b) of upon the person described in the records of the sheriff required to be going provision of this article to the contrary, notice to a lien holder is not any provision of this article to the contrary, notice to a lien holder is not applied to notice and water testing as provided in section 15 of this rule.
Application Notice	✓ WSSP Notice ✓ E&S Plan Notice	Well Plat Notice is hereby provided to:
☑ SURFACE OWNE		V COAL OWNER OR LESSEE Name: Hassel Thomas Hicks
Name:	Haessly Land & Timber LLC / 25 Sheets Run Rd.	Name: Hassel Thomas Hicks Address: 361 Glade Creek Estate
Address:	Marietta OH 45750	Coolridge WV 25825
	0	0
		See attached for additional coal owners.
Name:	0	COAL OPERATOR
Address:	0	Name: 0
	0	Address: 0
	0	~ 0
	RS(s) (Road and/or Other Disturbance	Received
Name:	Haessly Land & Timber LLC	SURFACE OWNER OF WATER WELL Office of Oil & Gas
Address:	25 Sheets Run Rd. Marietta OH 45750	AND OR WATER BURYEVOR(s)
	Marietta OH 43730	Name: SER U 8 ZUI3
Namar	Lucy E. Harper	Address: 0
Name:	511 Boca Ciega Point Blvd. North	Address. 0
Address:	St. Petersburg FL 33708	0
	See Attached	
CLIDET OF OUR IS		OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	R(s) (Impoundments/Pits)	Name:
Name:	I.L. (Ike) Morris PO Box 397	Address:
Address:	Glenville WV 26351	Addivos
	Glenvine w v 20331	
	U	*Please attach additional forms if necessary
		I INNER MINUTE MARKETONIAL LOCATION IN THE TOWN !



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

Enc.

4701706760

Received
Office of Oil & Gas
0CT 26 2015

#### 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

Received
Office of Oil & Gas

OCT 26 2015

# Updated Address List

WW6-A

Surface Owners(road or other disturbance):

WELL 513069

4701706760

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

#### **Additional Coal Owners**

SEP 1 4 2015

Office of Oil and Gas

Frank J Hicks 7232 Twin Lakes Lane Pensacola FL 32504

WV Department of Environmental Protection

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

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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 Ruth Paul Roby 8708 Tuckerman Lane Potomic MD 20854 4701706760

#### **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

oiker New Address

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 New Address

WELL 513069

4701706760

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Office of Oil and Gas

SEP 1 4 2015

WV Department of Environmental Protection

4701706760

02/12/2016, 2

#### **Additional Coal Owners**

WELL 513069

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 Address

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 4701706760

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Office of Oil and Gas

SEP 1 4 2015

WV Department of Environmental Protection

4701706760

02/12/2016

# **Additional Coal Owners**

WELL 513069

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 Cowcited Name 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 /

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 4701706760 RECEIVED Office of Oil and Gas

SEP 1 4 2015

WV Department of Environmental Protection

4701706760

WW-6A
(8-13)

API NO. <u>47</u>	017 -	·	0
OPERATOR WELL	NO.		513069
Wall Pad Name:		OVE155	

# 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 whitten 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 predrilling 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 mechanisms. 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 like of Oil & Gas 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 it 8 2015 discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

API NO. 47 - 017 - 0
OPERATOR WELL NO. 513069
Well Pad Name: OXF155

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 off organ operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide the energy may order the operator conducting the oil or gas operation to: (1) Provide the energy may order the operator conducting the oil or gas operation to: 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:

Received
Office of Oil & Gas

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 \$1015 secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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

API NO.	<u>47</u>		017	-	0
OPERATOR	WELI	L NO.			513069
Well Pad N	lame:				OXF155

# 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.

470170 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 had been denoted by the permit by application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons Office of Oil & Ga qualified to test water.

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

# Oil and Gas Privacy Notice:

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

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

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

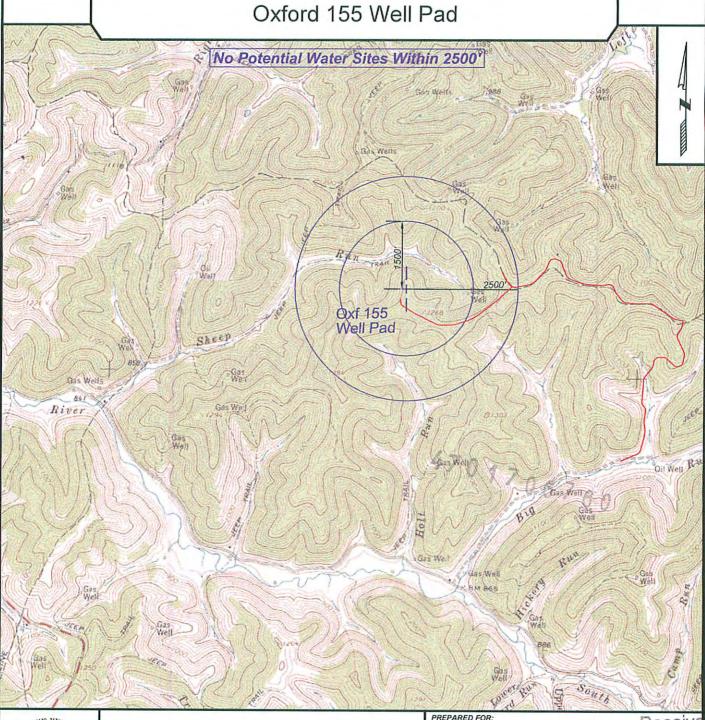
By: Victoria Roark
Its: Permitting Supervisor
Subscribed and sworn before n day of , 2015
Notary Public

My Commission Expir

\$70<sub>1706760</sub>

Received
Office of Oil & Ga

Topo Quad: Oxford 7.5' 1 " = 2000' Scale: County: Doddridge Date: January 29, 2015 Southwest District: Project No: 239-36-S-13





SURVEYING AND MAPPING SERVICES PERFORMED BY:

# ALLEGHENY SURVEYS, INC. 1-800-482-8606 P.O. BOX 438 BIRCH RIVER, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608

Receive

EQT Production Company !!

Bridgeport, WV 26330 SEP 0 8 2

Operator	Well No.	513069

# 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 R Date of Notice	equirement: Notice shall be provided at least TEN (10)::AUG Date Permit App		AUG 2 2 2015	_
Delivery meth	od pursuant to West Virginia Code § 22-6A-16(b)			
F HAND DELIVER	CERTIFIED MAIL RETURN RECEIPT REQUESTED	RN		
receipt reques drilling a horize of this subsect subsection ma	. Va. Code § 22-6A-16(b), at least ten days prior to filing ted or hand delivery, give the surface owner notice of contal well: Provided, That notice given pursuant to subsion as of the date the notice was provided to the surfacy be waived in writing by the surface owner. The notice, facsimile number and electronic mail address of the	its intent to enter upo section (a), section te ce owner: Provided, h e, if required, shall inc	on the surface owner's land for n of this article satisfies the r nowever, That the notice requilations, the clude the name, address, tele	or the purpose of requirements uirements of this ephone number,
	by provided to the SURFACE OWNER(s):			
Name:	Haessly Land & Timber LLC	Name:		Lucy E Harper
Address:	25 Sheets Run Rd.	Address:	511 Boo	a Ciega Point Blvd
	Marietta OH 45750		St Per	tersburg FL 33708
State: County: District: Quadrangle: Watershed:	Doddridge Southwest Oxford Sheep Run Of South Fork Hughes River		Northing	516,424.71 4,340,505.75 RT 21 Haessly Land & Timber LLC
This Notice Sh Pursuant to W facsimile numl related to hori		e operator's authorize the WV Department o	d representative. Additional f Environmental Protection h	ailable, information neadquarters,
Notice is herei Well Operator: Address:	EQT Production Company  115 Professional Place, P.O Box 280  Bridgeport, WV 26330	Authorized Represent Address:		Victoria Roark Professional Place, P.O Box 280 Bridgeport, WV 26330
Telephone:	304-848-0076	Telephone:		304-848-0076
Email:	vroark@eqt.com	Email:	<u>.</u>	vroark@egt.com
Facsimile:	304-848-0041	Facsimile:		304-848-0041
	ivacy Notice:  bil and Gas processes your personal information, such a			Office of O

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

Operator	Wall	Nο

513069

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

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Delivery metho	od pursuant to West Virginia Code § 22-6A-16(b)		
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HAND	CERTIFIED MAIL RETUR	RN	
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	ion as of the date the notice was provided to the surfa-		-
	y be waived in writing by the surface owner. The notice	· · · · · · · · · · · · · · · · · · ·	
and it available	e, facsimile number and electronic mail address of the	operator and the operator's authorized represe	entative.
Notice is herek	by provided to the SURFACE OWNER(s):		
Name:	I L Morris	Name:	
Address:	PO Box 397	Address:	<del></del>
	by given: est Virginia Code § 22-6A-16(b), notice is hereby given	that the undersigned well operator has an inter	nt to enter upon
Pursuant to We the surface ow	by given: est Virginia Code § 22-6A-16(b), notice is hereby given oner's land for the purpose of drilling a horizontal well	on the tract of land as follows:	
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Pursuant to Wo the surface ow State: County: District: Quadrangle: Watershed:  This Notice Sha Pursuant to Wo facsimile numb related to horiz located at 601  Notice is herek Well Operator: Address:  Telephone:	by given: est Virginia Code § 22-6A-16(b), notice is hereby given yner's land for the purpose of drilling a horizontal well of the purpose of drilling a horizontal the southwest Oxford  Sheep Run Of South Fork Hughes River  all Include: est Virginia Code § 22-6A-16(b), this notice shall include over and electronic mail address of the operator and the southwest of the secretary, at the secretary of the secretary o	On the tract of land as follows:  UTM NAD 83  NorthIng  Public Road Access:  Generally used farm name:  Let the name, address, telephone number, and if e operator's authorized representative. Addition the WV Department of Environmental Protection) or by visiting www.dep.wv.gov/oil-and-gas/paparaments.  Authorized Representative:  Address:  1	516,424.71 4,340,505.75 RT 21 Haessly Land & Timber LLC  available, nal information on headquarters, ges/default.aspx  Victoria Roark 15 Professional Place, P.O Box 280 Bridgeport, WV 26330

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.

WW-6A5	
(1/12)	

# Operator Well No.

513069

# STATE OF WEST VIRGINIA

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

	9-1.12 D	ate Permit Appli	date of permit appl	9-1-15
Delivery metho	od pursuant to West Virginia Code § 22-6A-	·16(c)		
☑ CERTIF	FIED MAIL HAN			
return receipt rec the planned oper required to be pro drilling of a horizo damages to the so	a. Code § 22-6A-16(c), no later than the date for quested or hand delivery, give the surface owner ration. The notice required by this subsection sharovided by subsection (b), section ten of this articontal well; and (3) A proposed surface use and courface affected by oil and gas operations to the equired by this section shall be given to the surface	r whose land will b all include: (1) A co cle to a surface ow ompensation agree extent the damage	e used for the drilling py of this code section ner whose land will be ement containing an s are compensable u	g of a horizontal well notice of on; (2) The information see used in conjunction with the offer of compensation for nder article six-b of this chapter.
Notice is hereby	provided to the SURFACE OWNER(s)			
(at the address lis	sted in the records of the sheriff at the time of n	otice):		
Name:	Haessly Land & Timb	er LLC / Name:		Lucy E. Harper
4 1 1	25 51 - 4 - 0	un Rd. Addres		511 Boca Ciegga Point Blvd. North
Address:	25 Sheets R	un Ru. Addres	5.	311 Boca Ciegga Foliti Bivu. Nopin
Notice is hereby p	Marietta OH given: : Virginia Code § 22-6A-16(c), notice is hereby giv	45750 ven that the under	signed well operator	St. Petersburg FL 33708 has developed a planned
Pursuant to West operation on the State: County: District:	Marietta OH	45750 ven that the under	signed well operator n the tract of land as Easting: Northing:	St. Petersburg FL 33708 has developed a planned follows: 516,424.710000 4,340,505.750000 RT 21
Notice is hereby progression to West operation on the State:	Marietta OH  given:  Virginia Code § 22-6A-16(c), notice is hereby given  surface owner's land for the purpose of drilling of the	ven that the under a horizontal well o UTM NAD 83 Public Road Acc	signed well operator n the tract of land as Easting: Northing:	St. Petersburg FL 33708 has developed a planned follows: 516,424.710000 4,340,505.750000
Notice is hereby and Pursuant to West operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to West to be provided by horizontal well; and surface affected by information related	given:  It Virginia Code § 22-6A-16(c), notice is hereby given:  Surface owner's land for the purpose of drilling of the purpose of drilling may be obtained from the purpose of the purpose of the purpose of drilling of the purpose of drilling may be obtained from the purpose of drilling of drilling of the purpose of drilling of drilling of the purpose of drilling of the purpose of drilling of the purpose of drilling of	ven that the under a horizontal well o UTM NAD 83  Public Road Acc Generally used for the company of whose land will be an agreement contages are compensal the Secretary, at the	signed well operator in the tract of land as Easting: Northing: ess: farm name: this code section; (2) used in conjunction ining an offer of comole under article six-be a WV Department of	St. Petersburg FL 33708 has developed a planned follows: 516,424.710000 4,340,505.750000 RT 21 Haessly Land & Timber LLC The information required with the drilling of a pensation for damages to the of this chapter. Additional Environmental Protection
Notice is hereby and Pursuant to West operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to West to be provided by horizontal well; as surface affected by information relate headquarters, loc pages/default.asp	given:  I Virginia Code § 22-6A-16(c), notice is hereby given:  WV  Doddridge  Southwest  Oxford  Sheep Run Of South Fork Hughes River  Include:  Virginia Code § 22-6A-16(c), this notice shall include:  Virginia Code § 22-6A-10(b) to a surface owner of (3) A proposed surface use and compensation on (3) A proposed surface use and compensation of (3) A p	ven that the under a horizontal well o UTM NAD 83  Public Road Acc Generally used for whose land will be a greement contages are compensal he Secretary, at the 104 (304-926-0450)	signed well operator In the tract of land as Easting: Northing: ess: farm name: this code section; (2) used in conjunction lining an offer of com ole under article six-b a WV Department of or by visiting www.o	St. Petersburg FL 33708 has developed a planned follows: 516,424.710000 4,340,505.750000 RT 21 Haessly Land & Timber LLC The information required with the drilling of a upensation for damages to the of this chapter. Additional Environmental Protection dep.wv.gov/oil-and-gas/
Notice is hereby and Pursuant to West operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to West to be provided by horizontal well; and surface affected by information related headquarters, loc	given:  It Virginia Code § 22-6A-16(c), notice is hereby given:  Surface owner's land for the purpose of drilling of the purpose of drilling may be obtained from the purpose of the purpose of the purpose of drilling of the purpose of drilling may be obtained from the purpose of drilling of drilling of the purpose of drilling of drilling of the purpose of drilling of the purpose of drilling of the purpose of drilling of	ven that the under a horizontal well o UTM NAD 83  Public Road Acc Generally used for the company of whose land will be an agreement contages are compensal the Secretary, at the	signed well operator In the tract of land as Easting: Northing: ess: farm name:  this code section; (2) used in conjunction ining an offer of comole under article six-be WV Department of or by visiting www.s	St. Petersburg FL 33708 has developed a planned follows: 516,424.710000 4,340,505.750000 RT 21 Haessly Land & Timber LLC The information required with the drilling of a upensation for damages to the of this chapter. Additional Environmental Protection dep.wv.gov/oil-and-gas/

# 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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

Office of C

513069

# STATE OF WEST VIRGINIA

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

Daliyanı math	od nursuant to	West Virginia C	odo 6 22 6 A	16/6			9-1-1	
		west virginia C	ode 9 ZZ-6A-	-16(c)				
	FIED MAIL RN RECEIPT	REQUESTED	☐ HAN	ID IVERY				
return receipt re the planned ope required to be p drilling of a hori: damages to the	equested or hand ration. The notice rovided by subse zontal well; and (i surface affected b	delivery, give the e required by this ction (b), section to B) A proposed sur- by oil and gas ope	surface owne subsection sha ten of this artion face use and co rations to the	r whose land will I all include: (1) A c cle to a surface ov ompensation agre extent the damag	application, an opera be used for the drilli opy of this code sect oner whose land will ement containing a es are compensable ddress listed in the l	ing of a hetion; (2) The used an offer of an armonder are under are	orizontal wel The informat in conjunction f compensation ticle six-b of	Il notice of ion on with the ion for this chapter.
		SURFACE OWNER						
	isted in the recor	ds of the sheriff a						
Name:			I. L. (Ike)					
A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
Address:				ox 397 Addre	55:			
Notice is hereby Pursuant to Wes	st Virginia Code §		Glenville WV	ven that the unde	rsigned well operato			anned
Notice is hereby Pursuant to Wes	st Virginia Code §		Glenville WV	ven that the unde	rsigned well operate on the tract of land a Easting: Northing: ess:		s:	anned 516,424.71000 4,340,505.75000 RT 2 sly Land & Timber LL
Notice is hereby Pursuant to Wes operation on the State: County: District:	st Virginia Code § e surface owner's		Glenville WV  ce is hereby gi ose of drilling	ven that the unde a horizontal well o UTM NAD 83 Public Road Acc	rsigned well operate on the tract of land a Easting: Northing: ess:		s:	516,424.71000 4,340,505.75000 RT 2
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Notice is hereby Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shal Pursuant to Wes to be provided be horizontal well; surface affected information rela headquarters, lo	Sheep Run Of S I Include: St Virginia Code § ov W. Va. Code § and (3) A propose by oil and gas op ted to horizontal ocated at 601 57tl	South Fork Hughe  22-6A-16(c), this  22-6A-10(b) to a set of surface use ancerations to the extended in Street, SE, Charles	ce is hereby gives of drilling WV Doddridge Southwest Oxford Is River  notice shall incompensation of the dama obtained from the	ven that the under a horizontal well of UTM NAD 83  Public Road Acc Generally used clude: (1)A copy of whose land will be a greement contages are compensative Secretary, at the	rsigned well operate on the tract of land a Easting: Northing: cess: farm name:  f this code section; ( e used in conjunctio aining an offer of co ble under article six ne WV Department of or by visiting www	(2) The in on with th ompensat x-b of this of Environ w.dep.wv	Haess formation re the drilling of a tion for dama s chapter. Ad nmental Prot agov/oil-and-	516,424.71000 4,340,505.75000 RT 2 Sly Land & Timber LLi equired a ages to the ditional tection

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory of Oil 3 Cassidates. Your personal information may be disclosed to other State according to the duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

# **Division of Highways**

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

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 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the OXF155 Pad, Doddridge County

513064 OXF155H1 513065 OXF155H2 513067 OXF155H4 513068 OXF155H5

513066 OXF155H3 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 Central Office O&G Coordinator

Dary K. Clayton

Cc:

Nick Bumgardner

**EQT Production Company** 

CH, OM, D-4

File

Received Office of Oil & Gas

# Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	<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

4701706760

Received
Office of Oil & Cas
SEP 0 8 2015



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

DEP Office Use only	
Date Received by Oil & Gas:	
Assigned Impoundment 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 – Ope	rator Information		470 <sub>17067</sub>
Operator Name:	EQT Production Company		
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:	rfurby@eqt.com

Section 2 – Engineering / Design Contractor Information

Design will be contracte	d  ■ Designed in-house  □			<del></del>		
Company Name:	Hornor Brothers Engineers					
Address: Street	P.O. Box 386				<del></del>	
City:	Clarksburg	State:	WV	Zip:	26302	
Contact Name:	Thomas D. Corathers	 Contact	Title:	PE, PS		
Contact Phone:	304-624-6445	Contact E	mail:	tom@hbe190	02.com	
Certifying Professional E	ngineer: Thomas D. Corathers					
Professional Engineer R	egistration Number: 14161					

Rec€ Office of f





Office of Oil and Gas

# Section 3 - Impoundment / Pit Information

Type of Structure. Check one of to Freshwater Impoundmen		Vaste Pit		
Note: Any waste in a pit will make it a				
Name of Structure (Company Nar	me :) EQT-OXF 155 Complet	ion Pit		
County: Doddridge		Southwest and West	Union	
'	DXFORD			
Farm Name:				
Pad Name: OXF 155	<del></del>			
Surface Owner Name: I.L. Morris				
Physical Description of Location:				
along access road 1.72 miles to OXF			t, go 800' to completion pit o	n left.
(Note: Give general location, example: 2 n				
Watershed (nearest perennial): Distance (Drainage Distance) to n	·			
Pistance (Prainage Distance) to n	earest heretitiiai stream: abi	proximately 1,030 feet t	U EdUII	
Latitude: 39.209547	Longitude (Use negative sig			
Access Road Coordinates (junctio Latitude: 39.203497	on of state highway access) Longitude (Use negative si	TM 83-17NF:1423897 ign):80.792680 JTM 83-17NF:1423678	7706760	
Access Road Coordinates (junction Latitude: 39.203497  UTM Coordinates: UTM 83  Approximate Dimensions	on of state highway access) Longitude (Use negative si	ign):80.792680	7706760	
Access Road Coordinates (junction Latitude: 39.203497  UTM Coordinates: UTM 83  Approximate Dimensions  Length: 352'	on of state highway access)  Longitude (Use negative si 3-17NF:1699145.657103 E  Width: 226'	ign):80.792680	7706760	
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Access Road Coordinates (junction Latitude: 39.203497  UTM Coordinates: UTM 8:  Approximate Dimensions  Length: 352' Note: If irregularly shaped, give approximate Total Capacity – Provide all units of Barrels: 173,268 (Capacity with 2' Freeboad – Provide and Capacity with 2' Freeboad –	on of state highway access)  Longitude (Use negative si 3-17NF:1699145.657103 E  Width:226'  ate dimensions of long axis.  of measure below:  Gallons:7,277,758	ign):80.792680 JTM 83-17NF:1423678 Height:19'	1.647751 N 35	
Access Road Coordinates (junction Latitude: 39.203497  UTM Coordinates: UTM 8:  Approximate Dimensions  Length: 352'  Note: If irregularly shaped, give approximate Total Capacity – Provide all units of Barrels: 173,268  Capacity with 2' Freeboad – Provide and Capacity with 2' Freeboad	on of state highway access)  Longitude (Use negative si 3-17NF:1699145.657103 E  Width: 226'  Ite dimensions of long axis.  of measure below:  Gallons: 7,277,758  de all units of measure below:	ign):80.792680 JTM 83-17NF:1423678 Height:19' Acre-Feet:22.3	1.647751 N 35	
Access Road Coordinates (junction Latitude: 39.203497  UTM Coordinates: UTM 8:  Approximate Dimensions  Length: 352'  Note: If irregularly shaped, give approximate Total Capacity — Provide all units of Barrels: 173,268  Capacity with 2' Freeboad — Provide Barrels: 148,521	on of state highway access)  Longitude (Use negative si 3-17NF:1699145.657103 E  Width: 226'  Ite dimensions of long axis.  of measure below:  Gallons: 7,277,758  de all units of measure below:	ign):80.792680 JTM 83-17NF:1423678 Height:19' Acre-Feet:22.3	1.647751 N  35	eceiv«
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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.

	<del></del>		
×	Engineered Construction Plans, of	certified by WV Registered P.	F

- X Erosion and Sediment Control Plan, certified by WV Registered P.E.
- $\boxtimes$ 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

all permits regulating dams will be required pr The dam standard, from the WVDEP, Div. Of http://www.dep.wv.gov/WWE/ee/ds/Pages/de	If the design of this structure qualifies it to be defined as a dam, ior to registering the structure with the Office of Oil and Gas. Water and Waste, is available for review at: fault.aspx
Section 7 -Comments - Provide any addi	tional comments concerning this project
	706760
	Received Office of Oil & Ga
	SEP 08 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.

	1/	1	- /)		
Name:	Victore.	A V	No mel		
Title:	permitt	ng Supe	ensor		
Signature:	The	P	14	_	
Taken, subscribed and so	worn to before me this,	27	Day of	aus	20 15
Notary Public:	Kanle you				
My commission expires:		8-24-	22		
Notary Seal:					
				STATE OF W NOTAR Pame EQT PO	IAL SEAL IEST VIRGINIA Y PUBLIC Ia Sykes roduction Iox 280 t, WV 26330 typies Aug. 24, 2022

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 57<sup>th</sup> Street, SE
Charleston WW 25304

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

Office of

Carlo Salarano



Office of Oil and Gas

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 Impoundment 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

Operator Name:	EQT Production Company			
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:		

# 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: WV Zip: 26302
Contact Name:	Thomas D. Corathers	Contact Title BE. BS 1 7 0 0 7 0 0
Contact Phone:		Contact Email: tom@hbe1902.com
Certifying Professional E	Themas B. Columbia	
Professional Engineer R	Registration Number: 14161	C-V
		Office of

SEP 08 ....







Office of Oil and Gas

# Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below:	
☐ Freshwater Impoundment 区 V	Vaste Pit
Note: Any waste in a pit will make it a waste pit.	
Name of Structure (Company Name :) EQT-OXF 155 Flow Ba	ck Pit
County: Doddridge District:	Southwest and West Union
USGS 7.5' Quad Map Name: OXFORD	
Farm Name:	
Pad Name: OXF 155	
Surface Owner Name: I.L. Morris	
Physical Description of Location: From intersection Doddridge Co I	
along access road 1.72 miles to OXF 155 access turn left and travel so	
(Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22	, left on Buffalo Creek)
Watershed (nearest perennial): Holt Run and an unnamed trib	outary to Big Run
Distance (Drainage Distance) to nearest perennial stream: ap	proximately 1,030 feet to each
Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xx	xx))
Latitude: 39.210235 Longitude (Use negative signature)	
<del></del>	TM 83-17NF:14239226.621075 N
Access Road Coordinates (junction of state highway access)	
Latitude: 39.203497 Longitude (Use negative s	· · · · · · · · · · · · · · · · · · ·
UTM Coordinates : UTM 83-17NF:1699145.653103 E	JTM 83-17NF:14236781.647751 N
Approximate Dimensions	4
Length: 186' Width: 185' Note: If irregularly shaped, give approximate dimensions of long axis.	Height: 17'
	4701706760 Acre-Feet: 5.817
Total Capacity – Provide all units of measure below:	1/0870
Barrels: 45,129 Gallons: 1,895,557	Acre-Feet:
Consoity with 2' Freehand - Brasida all with at	
Capacity with 2' Freeboad – Provide all units of measure below:  Barrels: 35,544 Gallons: 1,492,957	A
Gallons. 1,432,337	Acre-Feet: 4.582
Incised volume:	
Barrels: 17,288 Gallons: 726,147	Acre-Feet: 2.228
Gallons. 120,147	Acre-Feet: 2.228
Net impounded volume: (Total volume less incised volume.)	
Barrels: 27,841 Gallons: 1,169,410	Acre-Feet: 3.589 Receiv
Guilons. 44-64-46	Office of O
Anticipated Construction Start Date (estimation, non-binding):	
Note: No construction may begin on Associoated impoundment	until WVDEP issues the drilling permit. At least 7
calendar days prior to confirmed construction start date, notify the	e Office of Oil & Gas, and the local Oil and Gas
inspector of construction start date. Use form IMP-2, "Notification	of Impoundment / Pit Construction."

No.



**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	
Н5 513068 Н6 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 any ad	dditional comments concerning this project
	4701706760
	Office of OH & SEP 0 8 201



# 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.

Victoria V. Kurnk
permitting Superisor
This by
his,
· Na
8-24-22
OFFICIAL SEAL STATE OF WEST VIRGINIA
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 Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection Office of Oil and Gas 47017067

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

# Project Laution 3

FLOODPLAIN		-	_
DO SITE CONSTRUCTON ACTIVITIES TO	AKE PLACE IN FLO	DODPLAIN.	NO
PERMIT NEEDED FROM COUNTY FLOO	DPLAIN COORDIN	ATOR.	No
HEC-RAS STUDY COMPLETED			NA
FLOODPLAIN SHOWN ON DRAWINGS:			NA
FIRM MAP NUMBER(S) FOR SITE:	54017C0225C		
ACREAGES OF CONSTRUCTION IN FLO	DODPLAIN	N/A	

### PROPOSED WELL LEGEND

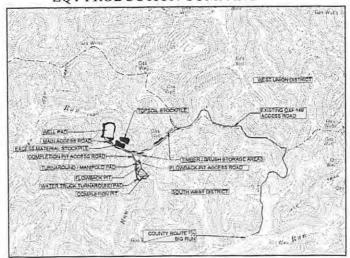
H8	516484 - LAT: 39.213754	
H7	516483 - LAT: 39.213713	/ LONG:-80.809739
H6	513069 - LAT: 39.213673	/ LONG:-80.809747
H5	513068 - LAT: 39.213632	/ LONG:-80.809754
H4	513067 - LAT: 39.213591	/ LONG:-80.809762
НЗ	513066 - LAT: 39.213550	/ LONG:-80.809769
H2	513065 - LAT: 39.213510	/ LONG:-80.809777
HI	513064 - LAT: 39.213469	

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!!

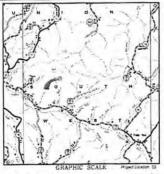


# **OXF 155**

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







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

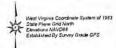
Billy Miller - Landman II-Dnilling EQT Production Company 304-627-0367 Mobile 304-648-0039 Office

Surveyor & Engineer

Ben Singleton - PS - Allegheny Surveys Inc. 304-649-8606 Off.

Design Certification

The cirelings, construction rules, and reference degrams attached hereto have been prepared in accordance with the West Virgins Code of State Fules, Distain of Emirormental Protection, Office of Dil and Gas 535-2-71. The riformation reference at Employer Para place of The computed above grade storage volume as least than 13 acre lived. (Refer period purples, the poord 15 acre lived.)



AFFECTED PROPERTIES WEST UNION DISTRICT

MAN ACCESS BOAD 1 279 ACRES

AFFECTED PROPERTIES SOUTHWEST DISTRICT DODDRIDGE COUNTY, W

HARKSLY LAND & TIMBER, LIC BIS ACRES BITE DISTURBANCE

MAIN ACCESS POAD + 3 M ACRES COMPLETION FOT ACCESS FOAD + 0 12 ACRES TOPPOOL STOCKPILE + 2.2 A ACRES EXCESS MATERIAL STOCKPILE + 2.2 ACRES TWICK & BALLING STOCKPILE + 2.2 ACRES MICE AND ZOA ACRES MICE AND ZOA ACRES

THE REPORT OF STREET

A MORNING A MINI PS ACRES SUTE DISTURBANCE

COMPLETION HT ACCESS E TURNAROUND - 1 14 ACRES COMPLETION HT - 1 49 ACRES H (AMADE ACCESS E MANDE DETURNAROUND - 6 W ACRES PLOYAROUND TO 1 70 ACRES PLOYAROUND HT + 1 70 ACRES

THINKER REMOVAL + 1 16 ACRES EXISTING WELLS ACCESS ROAD + 10 26 ACRES







Engineers Hornor Since Bros. 1902 Bros. Costillar El Costillar El



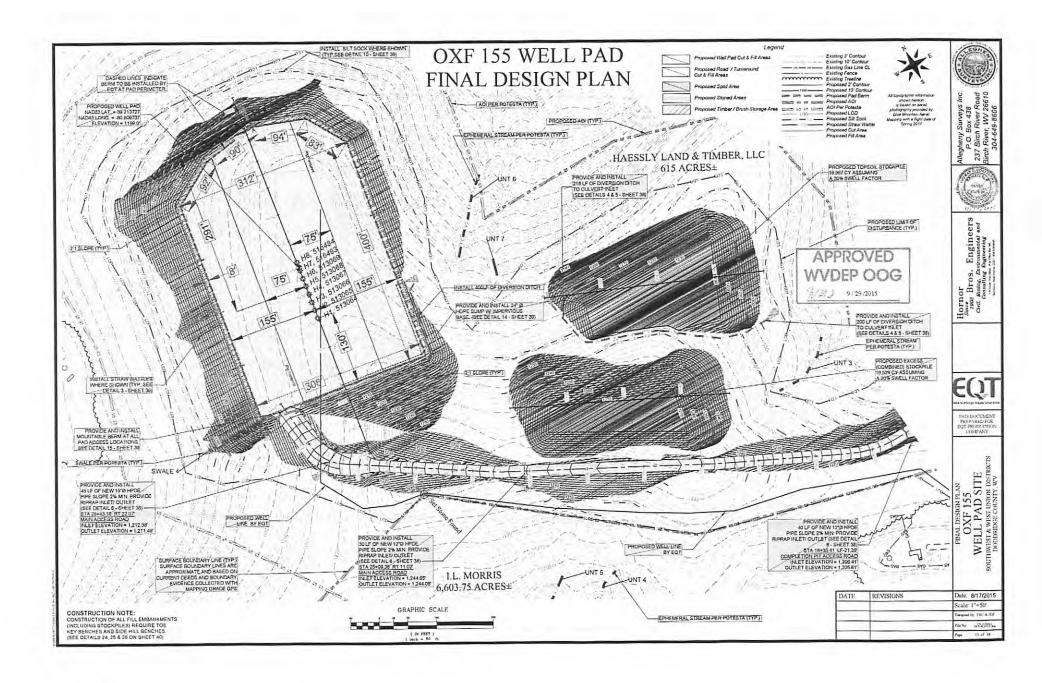
OXF 155
WELL PAD SITE
MINEST & WISTURION DISTRICTS

# COVER SHEET // OCATION MAR

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CONSTRUCTION, GENERAL AND EAS NOTES4
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RECLAMATION PLANS
RECLAMATION PLANS

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DATE	REVISIONS	Date: 8/17/2015
		Scale: N.A.
		Designed by: TDC 4 /UI
		Pile Nat (1974) 17764
		Figs. 1 of 44





#### FLOODPLAIN CONDITIONS DO SITE CONSTRUCTON ACTIVITIES TAKE PLACE IN FLOODPLAIN PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR-NO HEC-RAS STUDY COMPLETED FLOODPLAIN SHOWN ON DRAWINGS NA FIRM MAP NUMBER(S) FOR SITE: 54017C0225C ACREAGES OF CONSTRUCTION IN FLOODPLAIN

#### PROPOSED WELL LEGEND

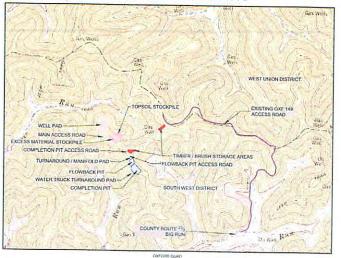
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# **OXF 155**

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



(1) a E Received 5

2015





AFFECTED PROPERTIES ODORIDGE COUNTY WA

MANN ACCESS NOAD + 0.78 ACRES TIMBER REMOVAL - G.E. ACRES

AFFECTED PROPERTIES SOUTHWEST DISTRICT DODDHIDGE COUNTY, WV

HARRY YLAND & THEORY LLC \$15 ACRES SITE DISTURBANCE

MANACCESS ROAD = 9 46 ACRES COMPLETION PIT ACCESS ROAD = 0 11 ACRES TOP-SOR STOCKPILE = 2.52 ACRES

I L MORAUS IL 673 75 ACRES SITT DISTURBANCE

FINAL REVIEW NOT FOR CONSTRUC

Engineers
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Engineering

THIS DOCUMENT PREPARED FOR FOT PRODUCTION COMPANY

FINAL SITE DESIGN COVER SHEET

OXF 155

WELL PAD SITE

UTHWEST & WEST UNION DISTRICTS

DODORIDGE COUNTY, WY

Design Certification

Project Contacts

Company 304-627-0367 Mobile 304-848-0039 Office

Surveyor & Engineer

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

Den Singleton - PS - Allegheny Surveys Inc. 304-649-8606 Off

The drawings, construction notes, and reference diagrams attached heinto have been prepared a secondance with the West Veryinar Clode of State Ruses. 
Ovision of Environmental Printection. Office of Old and Car \$355.4.21. 
Division of Environmental Printection. Office of Old and Car \$355.4.21. 
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# SHEET INDEX

COVER SHEET / LOCATION MAP EXISTING CONDITIONS PLAN SCHEDULE OF QUANTITIES CONSTRUCTION, GENERAL AND EAS NOTES CONSTRUCTION GENERAL AND EAS NOTES OVERVIEW PLAN PARA PRINTING ACCESS ROAD FINAL DESIGN PLANS . SECTIONS COMMITTION OF PROFILE A CROSS SECTIONS COMMITTION OF PROFILE A CROSS SECTIONS COMMITTION OF PROFILE ACROSS SECTIONS COMMITTED OF PROFI WILLIAMO ACCESS PROPILE & CHOSS SECTIONS
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FLOWBACK PIT ACCESS PROPILE & CHOSS SECTIONS
FUSTING ACCESS ROAD PROPILE &
EXISTING ACCESS ROAD CROSS SECTIONS
CONSTRUCTION DETAILS
RECLAMATION PLANS

DATE	REVISIONS	Date: 8/12/2015
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