

#### 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

April 24, 2015

#### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-1706714, 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: 515969

Farm Name: MORRIS, I.L.

API Well Number: 47-1706714

Permit Type: Horizontal 6A Well

Date Issued: 04/24/2015

API Number: <u>17-06714</u>

#### **PERMIT CONDITIONS**

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

#### **CONDITIONS**

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

API NO.	47	æ.,	017	 06714
OPERATO	R WE	L NO		515969
Well Pad	d Nar	ne:		OXF153

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

1) Wall Operator: FOT Braduction	C		000000			
1) Well Operator: EQT Production	Company		306686 Operator ID	017 County	7 Dietriet	526
			Operator ID	County	District	Quadrangle
Operator's Well Number:		515969		Well Pad Name	:	XF153
3) Farm Name/Surface Owner :		I L Morris		Public Road Acc	cess:	19/11
4) Elevation, current ground:1	,139.0	Elevati	on, proposed po	st-construction:	1,141.0	
5) Well Type: (a) Gas	Oil	Und	derground Storag	ge		
Other						
(b) If Gas: Sh	allow		Deep			
Hor	izontal	*				
6) Existing Pad? Yes or No:	yes					
7) Proposed Target Formation(s), Dep	oth(a) Antiqi	natad Thiaka	annon and Assess	data d D	V.	
				58 feet and anticip	•	AN - B PERSON REPORT
Wattering at a de	DIII 01 0000	with the anticipa	ated trickless to be	36 leet and anticip	ated target pressu	re of 2951 PSI
3) Proposed Total Vertical Depth:				6560'		
9) Formation at Total Vertical Depth:				Marcellus		
10) Proposed Total Measured Depth:				12,948		
11) Proposed Horizontal Leg Length				5,170		
12) Approximate Fresh Water Strata [	Depths:			49, 442		
13) Method to Determine Fresh Water	r Depth:			By offset wel	Is	
(4) Approximate Saltwater Depths:			1365	5, 1407, 1457		
15) Approximate Coal Seam Depths:				none reported		
<ol><li>Approximate Depth to Possible Vol</li></ol>	oid (coal min	e, karst, other	r):		None repor	rted
17)Does proposed well location co	ntain coal se	eams directly	overlying or		1	
adjacent to an active mine?						
(a) If Yes, provide Mine Info:	Name:					
1	Depth:					
	Seam:					
	Owner:					<u> </u>
	\ <del>-</del>					

DCN 4-14-2015 Page 1 of 3 Casing charge

APR 2 1 2015

Office of Oil and Gas Unice or Un and Gas Protection
WW Dept. of Environmental Protection WW-6B (3/13)

4701	7	06	7	14
API NO. 47 U	<u> 17</u>	_ · _		06714
OPERATOR WELL NO.	_			515969
Well Pad Name				OYEL53

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

18)

TYPE	<u>Size</u> (in)	<u>New</u> <u>or</u> Used	Grade	Weight per lb/ft.	FOOTAGE: for Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill- up (Cu.Ft.)
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	J-55	54	592	592	528 C.T.S.
Coal	-	_	_		_	-	_
Intermediate	9 5/8	New	A-500	40	2,967	2,967	1,172 C.T.S.
Production	5 1/2	New	P-110	20	12,948	12,948	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u>	<u>Burst</u> <u>Pressure</u>	<u>Cement</u> <u>Type</u>	Cement Yield (cu. ft./k)
			(in)	(psi)		
Conductor	20	24	0.375	•	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	* See Note 2	1.21
Coal						
Intermediate	9 5/8	12 3/8	0.395	3,950	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing						
Liners						

#### **Packers**

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

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

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

Page 2 of 3

Received

APR 2 1 2015

Office of Oil and Gas WV Dept. of Environmental Protection

WW - 6B		API NO. 47	<u>17</u> - <u>06714</u>
(3/13)		OPERATOR WELL NO. Well Pad Name:	515969 OXF153
		-	UAF133
19) Describe proposed well work, including the drilling a	and plugging back of any p	oilot hole:	
Drill and complete a new horizontal well in the Marcellus formation	n. The vertical to go down to an	approximate depth of 500	)9'.
Then kick off the horizontal leg into the Marcellus using a slick w	ater frac.		
00) <del>D</del>		<del></del>	
20) Describe fracturing/stimulating methods in detail, in	• •		
Hydraulic fracturing is completed in accordance with state regulations freshwater sources. This water is mixed with sand and a small percer			
gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor	), referred to in the industry as a '	"slickwater" completion. N	Maximum
anticipated treating pressures are expected to average approximately approximately 100 bpm. Stage lengths vary from 150 to 300 feet. As			
vary from 100 mesh to 20/40 mesh. Average approximately 200,000		rreis of water per stage.	Sand sizes
21) Total area to be disturbed, including roads, stockpil	e area, pits, etc, (acres):		11.5
22) Area to be disturbed for well pad only, less access	road (acres):		11.3
23) Describe centralizer placement for each casing strice	ng.		
<ul> <li>Surface: Bow spring centralizers – One at the shoe ar</li> <li>Intermediate: Bow spring centralizers – One cent at the</li> </ul>		(en/ 500)	<del></del>
Production: One spaced every 1000' from KOP to Interest.		ery 000 .	
24) Describe all cement additives associated with each	cement type. Surface	ce (Type 1 Cement): 0-	-3% Calcium Chloride
Used to speed the setting of cement slurries.			
0.4% flake. Loss Circulation Material (LCM) is used to comba			ha aatting of annua
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used to slurries. 0.4% flake. Loss Circulation Material (LCM) is used to			
to a thief zone.			
Production:			
Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Le	ngthens thickening time.		
0.3% CFR (dispersant). Makes cement easier to mix.			
Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). L	engthens thickening time.		
0.2-0.3% CFR (dispersant). This is to make the cement easie	er to mix.		
60 % Calcuim Carbonate. Acid solubility.			
0.4-0.6% Halad (fluid loss). Reduces amount of water lost to	formation		
5.4 5.5 76 Fidual (Italia 1555). Fidualists all touring in Materillist to	ioimation.		
25) Proposed borehole conditioning procedures. <u>Surf</u>	ace: Circulate hole clean (Appro	nximately 30-45 minutes	c) rotating & reciprocating
one full joint until cuttings diminish at surface. When cuttings			<del> </del>
minutes. To ensure that there is no fill, short trip two stands			
and circulate hole clean. A constant rate of higher than expe			
Intermediate: Circulate hole clean (Approximately 30-45 minutes	i) rotating & reciprocating one f	full joint until cuttings di	minish at
surface. When cuttings returning to surface diminish, continu	ue to circulate an additional 5	minutes. If foam drilling	ig, to enhance
hole cleaning use a soap sweep or increase injection rate & f	oam concentration.	<del></del>	
<u>Production:</u> Pump marker sweep with nut plug to determine actu	ial hole washout. Calculate a ga	auge holes bottoms up y	olume, JUN VUV
Perform a cleanup cycle by pumping 3-5 bottoms up or until	he shakers are clean. Check	volume of cuttings co	ming across
the shakers every 15 minutes.			APR 2 1 2015

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



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

.... ... Dalaman

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

Received
Office of Oil & Gas

JAN 09 2015



west virginia department of environmental protection

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

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

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

#### REPORT OF THE OFFICE

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

#### FINDINGS OF FACT

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

Promoting a healthy environment.

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Office of OFA Gas
JAN 0 9 2015

#### **CONCLUSIONS OF LAW**

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

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

#### **ORDER**

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

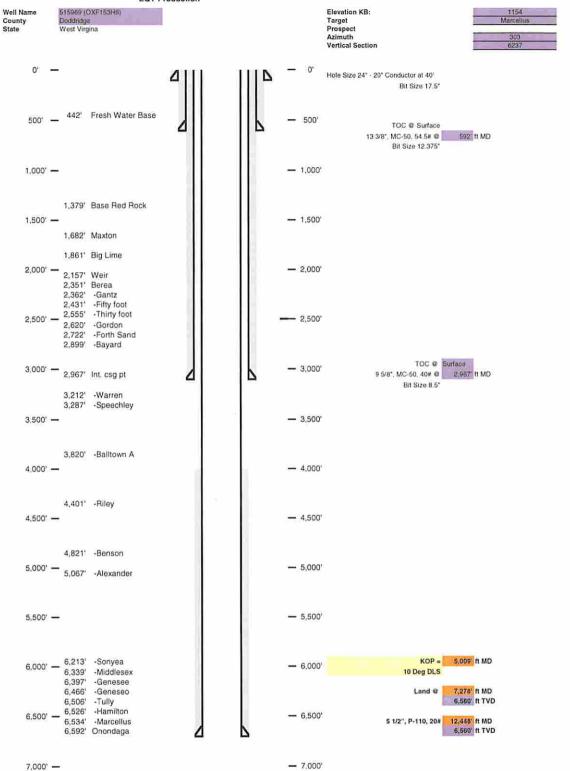
OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OF THE STATE OF WEST VIRGINIA

James Martin, Chief Office of Oil and Gas

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Office of OHA Gas

JAN 09 2015

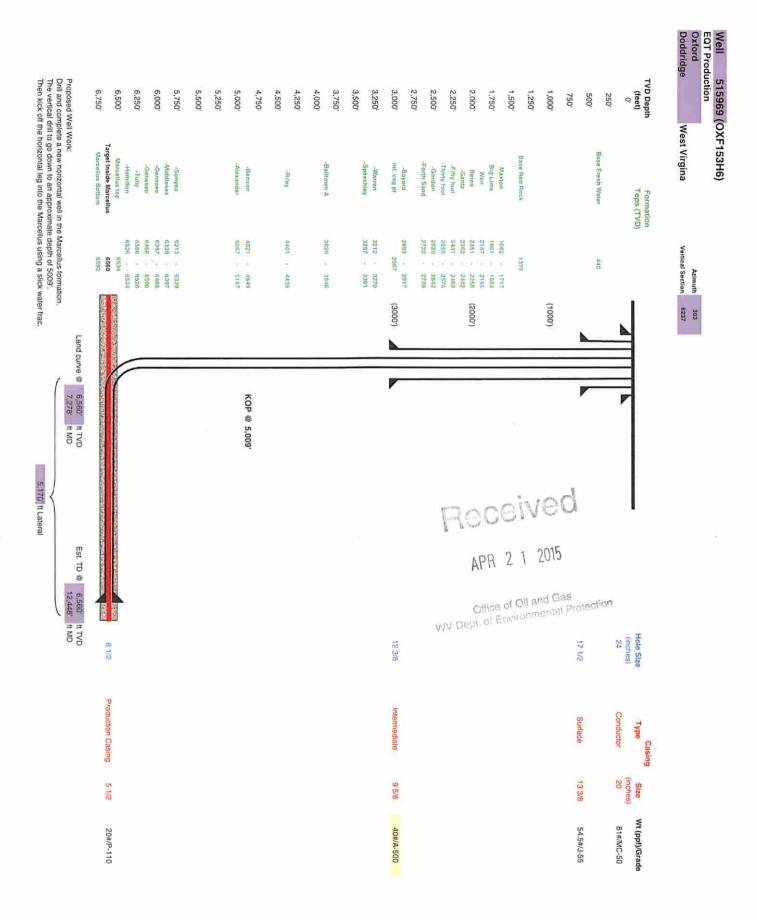
Well Schematic EQT Production 017-02714



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Office of Oil and Gas WV Dept. of Environmental Protection



WW-9 (5/13)

Pa	age	1	of	2	
API No. 47	01	7		(	5
Operator's We	ll No			515969	į

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name	EQT Production Cor	•	OP Code	306686	
Watershed (HUC10)			Quadrangle	Oxford 7.5	_
Elevation	1139.0 County	·		Southwest	<del></del>
Do you anticipate usin	ng more than 5,000 bbls of wa	ter to compl		ork? Yes x No	<del></del>
Will a pit be used ? Ye		•	The way proposed well in		_
•	escribe anticipated pit waste:		flowback water & re	eidual eolide	
•	• •	res X		sidual solids	_ ,
•	•		Noif so	o, what ml.?60	- DCN 2015
Proposed Dis	sposal Method For Treated Pi Land Application	t wastes:		•	27
	Underground Injection	ı (UIC	Permit Number 00	14, 8462, 4037	1"
	- Reuse (at API Numb	oer	Various		<del>-</del>
<u> </u>		(Supply form	n WW-9 for disposal loca	ation)	
	Other (Explain				<u>)</u>
Will closed loop syster	m be used? Yes, The close	d loop system	n will remove drill cuttings f	rom the drilling	
fluid. The drill cuttings a	re then prepared for transportati	on to an off-s	ite disposal facility.		
Drilling medium antic	cipated for this well? Air, fresh	water, oil ba	ased, etc. Air is used to drill the	e top-hole sections of the wellbore,	
g			_	e, and Pilot hole sections, water base	<del></del>
			mud is used to drill ti		<u> </u>
If oil based	, what type? Synthetic, petrole	eum, etc		10 corre una latera.	_
Additives to be used in		-	Alkalinity Control, Lime, Chlorid	e Salts.Rate Filtration Contro	<del></del> 1.
	tergent, Defoaming, Walnut Shell, X				<del>3_</del>
	on air: lubricant, detergent, defoam				
	lime, chloride salts, rate filtration co				_
x-cide, SOLTEX terra					_
Drill cuttings disposal	method? Leave in pit, landfill	, removed o	ffsite, etc.	Landfill	
- If left in pit a	nd plan to solidify what medium will	be used? (Cem	nent, Line, sawdust)	n/a	<u></u>
- Landfill or of	ffsite name/permit number?		See Attached L	ist .	
I certify that I underst	and and agree to the terms and con-	ditions of the G	ENERAL WATER POLLUTIO	N PERMIT issued	
on August 1, 2005, by the O	ffice of Oil and Gas of the West Virg	inia Departmer	nt of Environmental Protection	. I understand that the	EIVED
provisions of the permit are	enforceable by law. Violations of any	/ term or condit	tion of the general permit and/	or other application Of	Oil and Gas
or regulation can lead to ent	orcement action.				-
	or of law that I have personally examination of law that I have personally examination is true, accurate, a				<b>3 0</b> 2015
he information, I believe that	at the information is true, accurate, a	nd complete. I	am aware that there are signif	icant penalties for	
submitting false information,	chments thereto and that, based on at the information is true, accurate, a , including the possibility of fine or im	prisonment.		/ WV Dep	artment of
			161	Environmen	tal Protection
Company Official Sign Company Official (Typ			Victoria J. Roark		_
Company Official Title	ed Ivallie/	Perm	itting Supervisor		
ompany omolai mio			······································		
	00		7).		
Subscribed and sworn	before me this	day of _	VELENBER	, 20 <u>/4</u>	_
		_	`=1111111111	esAletons Dublic	
	A J		/ = =	OFFICIA	illitiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
My commission expires	s ///	7/27	7/2018 <b>I</b>	STATE OF WE	ST VIRGINIA
	T -	/1		Nicholas L. B	umgardner E
	•			Rt. 1, E	°04/24/2 <b>0</b> 15
			≣	my Commission Exp	ires July 27, 2018
				.,	

		Operato	r's Well No.	515969
Proposed Revegetation T	reatment: Acres Disturbed	11.5	Prevegetation p	H5.9
Lime	3 Tons/acre or to	Tons/acre or to correct to pH		
Fertilize type	Granular 10-20-20	<del></del>		
Fertilizer Amount	1/3lbs/ad	cre (500 lbs minimum)		
Mulch	2	Tons/acre		
	:	Seed Mixtures		
Temp	porary		Permanent	
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass		os/acre 5
Alsike Clover	5	Alsike Clover	5	-
Annual Rye	15			
	n,pit and proposed area for la	nd application.		
Photocopied section of inv	olved 7.5' topographic sheet.			
Plan Approved by:	Jonatos Newlon			
Comments: Presex	ed - Mulch and	disturbed	areas 1	5 tall
and maintain	congles Newlow and Mulch and De	A regulations		
			<del></del>	_
				-
Title: Oil roas	inspector	Date: _ / • 2.7	- 2015	
Field Reviewed? (	) Yes		) No	

RECEIVED
Office of Oil and Gas

JAN 30 2015

WV Department of Environmental Protection

## 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

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Office of OHA Gas

JAN 09 2015

#### **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



### Site Specific Safety Plan

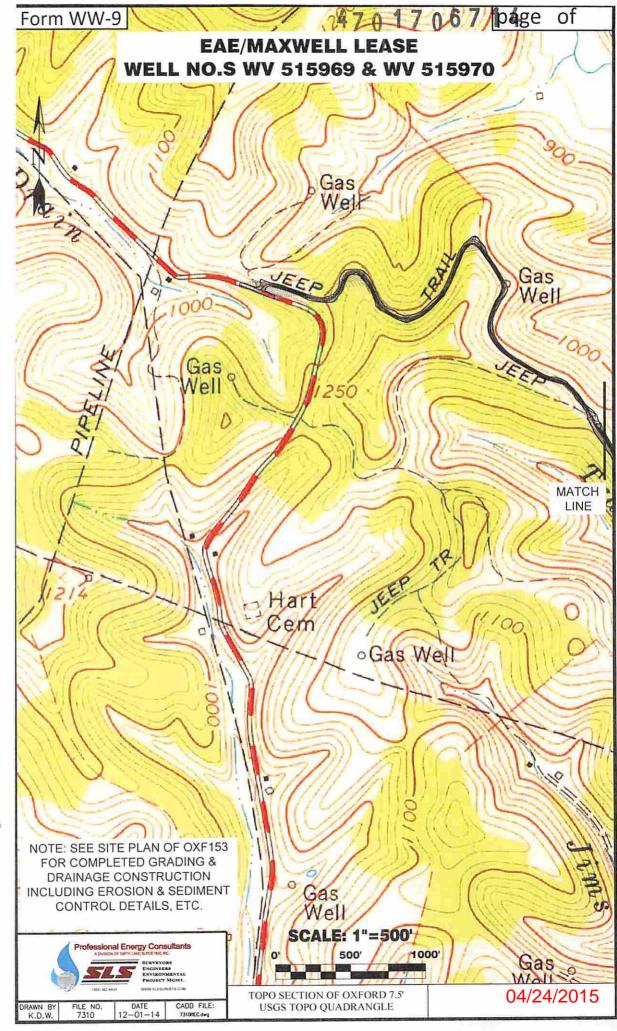
### EQT OXF 153 Pad

## Oxford Doddridge County, WV

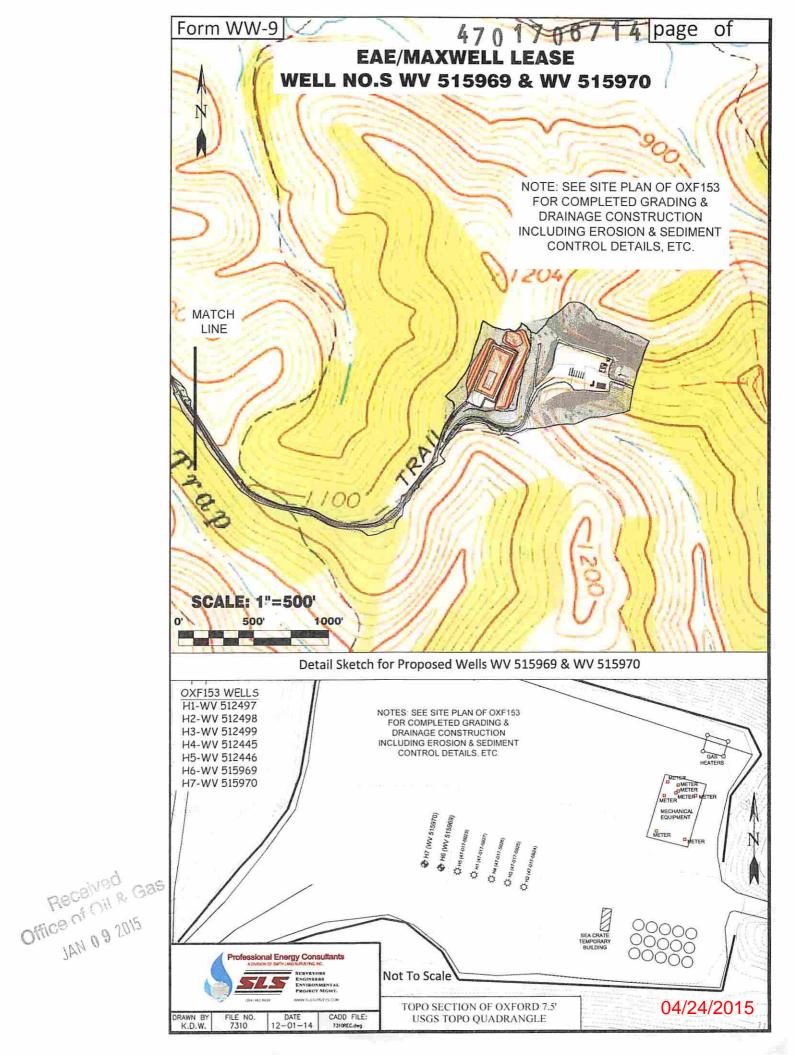
515969 515970	For Wells:
	Date Prepared: October 23, 2014
OT Production	WV Oil and Gas Inspector
Deporting Speaus	ior
1229-14	Title
1221-19 te	1-27-205 Date RECEIVED
	Office of Oil and Gas

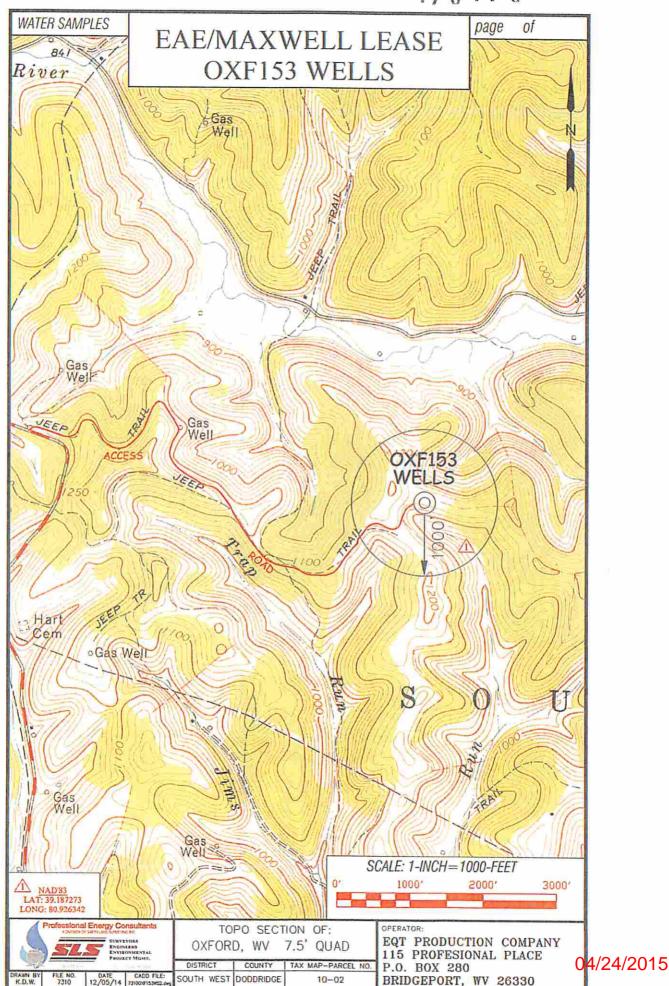
WV Department of Environmental Protection 24/24/2015

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Received Gas
Office of Oil 8, Gas







7310 OXF-153 EQT waterfinal, pg 1

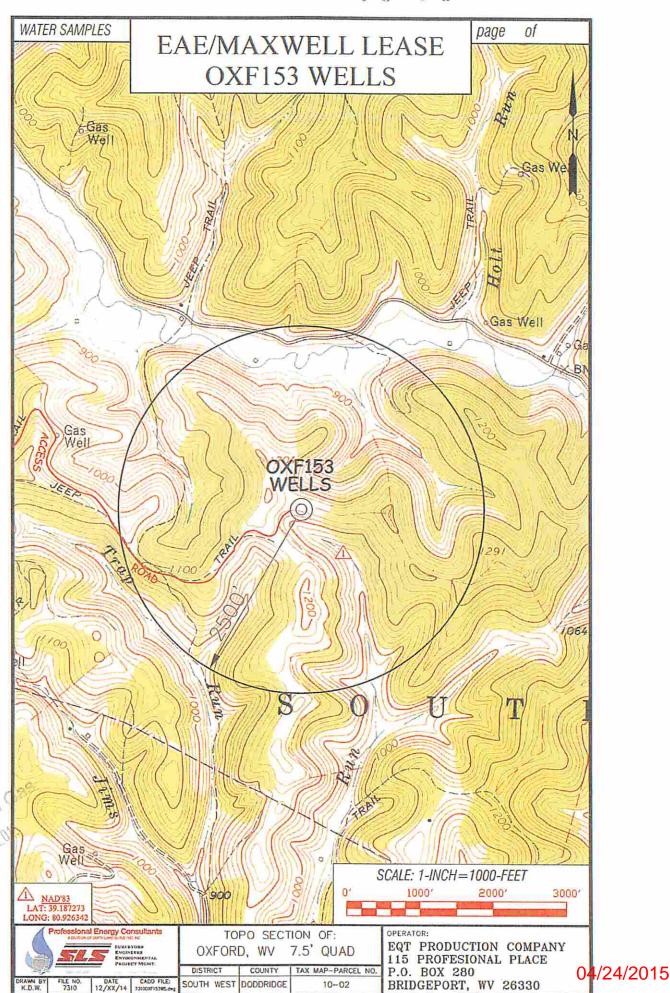
BOX 150, GLENVILLE, WV 2635

(304) 462-5634 • FAX 462-5656

#### WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

EASE NAI	ME AND	NUMB	ER:	-153 We	Il Pad						
			<u>(</u>	OMM	ENTS						
isted surfac	e owner(.	s) that we	ng review of the are potentially the proposed w	utilizing	ground	water (	potab	le) for	Human C	onsump	tion or
		IND	OIVIDUAL C	ONTA	CTED (	OR NO	TIFI	ED			
te. /	Spaci	ng	Owner/	Occupa	int:	.L. Moi	ris				
idress:	P.O. Box	: 397 Glen	wille, WV 2635	1				Ph:	(304)	162-5347	
eld Contac	ct Date:	NA	Located:	No	Date L	ocated	A	A S	Source:	Unki	own
No, declined omments:	by who 1.  Tax Ma	L. Morris p 10, Parc	el 2 Letter/No	tice Date	1st	VZA	2nd	N/A	Certifi	ied (3rd)_	N/A
	Letter (	of Refusal	Signed 12/05/20	0/4							
dress: eld Contac lo, declined	115 Prof. t Date: by who	esional Pl 12/05/201	5' Owner/ouce Bridgeport, 14 Located:Letter/Not	WV 263 Yes lice Date	30 _Date Lo : 1st /	ocated:	12/05 2nd	Ph: /2014 S N/A	(304)-8 Source: Certifi	148-0082 Cro	ek
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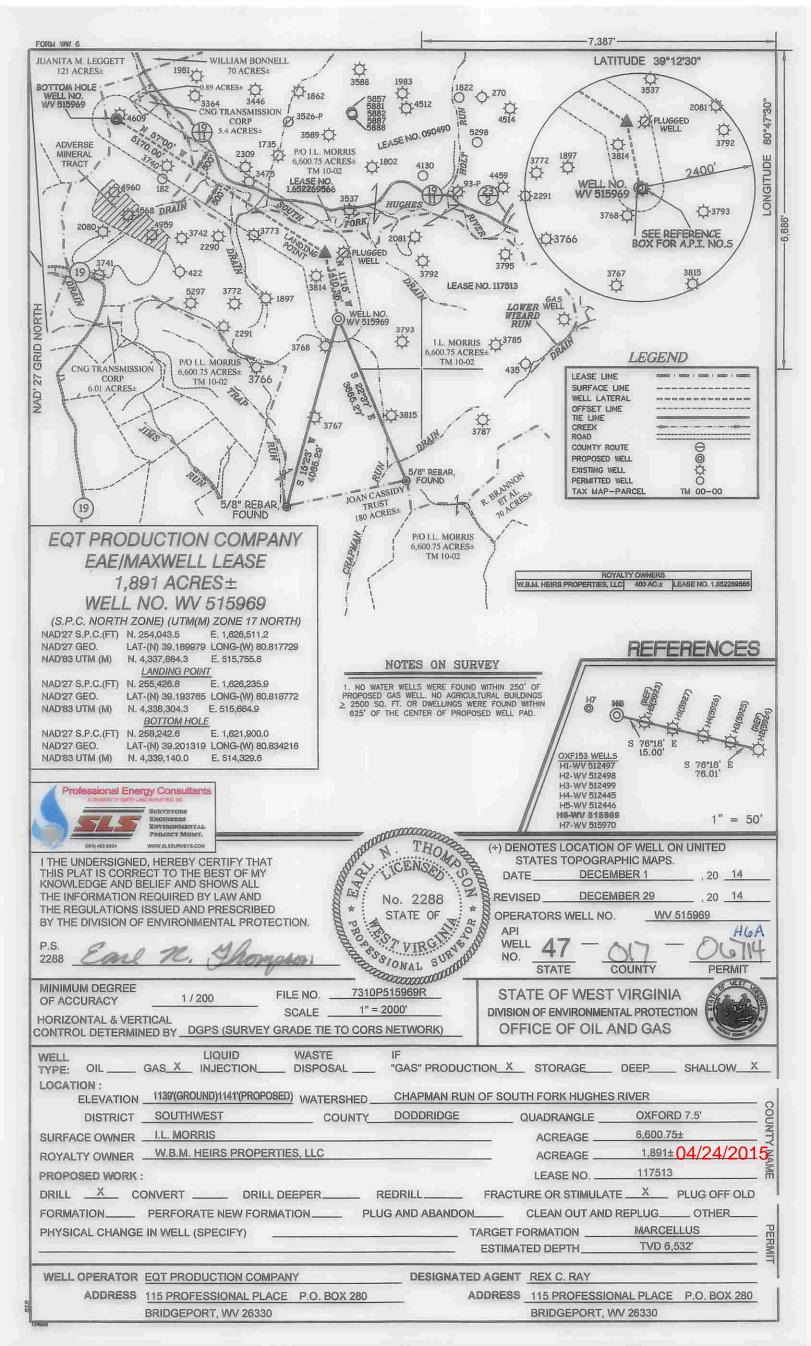
04/24/2015





TOOL OF TOOL O
(304) 462-5634 • FAX 462
To Whom It May Concern:
Smith Land Surveying, Inc. of Glenville, WV has been contracted by:
EQT
To do some preliminary work for a proposed oil and gas well permit application.
Due to 1994 regulations set by the State of West Virginia Division of Environmental Protection, Department of Oil and Gas, operators are required to offer water testing for water wells or other non-public water sources that fall within 1500 feet of the proposed well. The operator is testing within 2500 feet of the well, if they are requested to do so by the resident or owner. This test will only help ensure the water quality control, which in turn benefits you as the resident or landowner.
Since your residence falls within the <u>2500</u> foot radius, you are entitled to have your potable water source(s) sampled and analyzed at an independent lab. Your lab analysis results would then be mailed to your home. This is done at no expense to you.
Please notify Smith Land Surveying immediately if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the client and well number may be referenced.
Thank you for your cooperation in this matter. I look forward to hearing from you at your earliest convenience. If you have any questions, please feel free to contact me at:
Smith Land Surveying, Inc.  Date: 12/5/14  PO Box 150
Glenville, WV 26351 Left/sent by: Daniel McKee (304) 462-5634 (voice)
(304) 462-5656 (fax) Well Number: OXF-153 E-Mail DMcKee@slssurveys.com Tax Map / Parcel: 10/2 Doddridge County, WV Southwest District
*If you do not have a water well or other non-public water source, please make note of it and include your name and address when you return this sheet.
If you do not feel the need to have your Water well/spring/or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined. Please include printed name along with signature.
Signature: Date: 12/5/14

Paceived Office of Oil & Gas JAN 09 2015



WW-6A	1
(5/13)	

Operator's Well No	Opera	tor's	We	ll No
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#### 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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
117513			Min 1/8 pd	
	William Brent Maxwell, et al	Pittsburgh & West Virginia Gas Co.		LB37/48
	Pittsburgh & West Virginia Gas Co.	Equitable Gas Co.		DB216/457
	Equitable Gas Company	Equitrans, Inc.		DB468/325
	Equitrans, Inc.	Equitable Production-Eastern States, Inc	<b>)</b> .	DB639/599
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB281/346
	Equitable Production Company	EQT Production Company		CB281/346
1.652269566				
	William Brent Maxwell, Jr., et al	Consolidated Gas Supply Corp.		LB103/206
	Consolidated Gas Supply Corp.	Consolidated Gas Transmission Corp.		LB315/583
	Consolidated Gas Transmission Corp.	CNG Development Co.		LB139/41
	CNG Development Co.	CNG Producing Co.		CB1096/124 (Delaware)
	CNG Producing Co.	Dominion Exploration & Production, Inc.		CB82/07 (Delaware)
	Dominion Exploration & Production, Inc.	EQT Production Co.		LB322/391

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.

Received
Office of Oil & Gas

JAN 09 2015

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

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

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

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

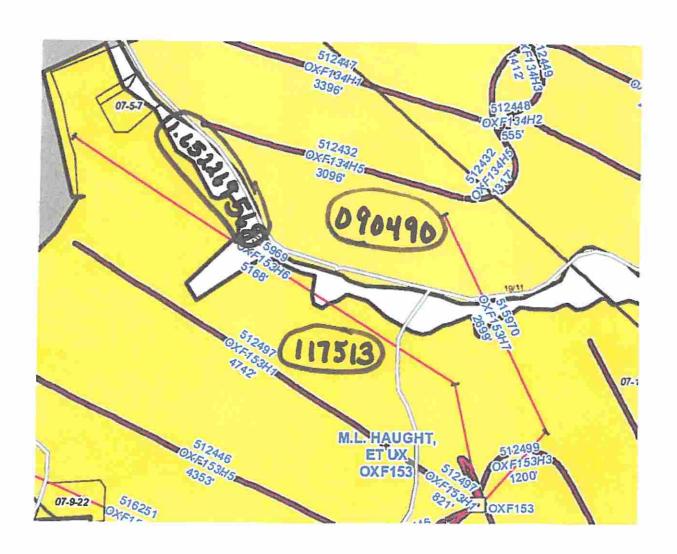
Well Operator: EQT Production Con

By:

Its: Permitting Supervisor

Page 1 of 1

Office of Oil & Gas



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

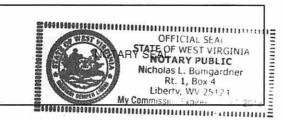
Date of Notice Certification:		API No. 47 - 01	17 - 0
	<del>_</del>	Operator's Well No.	515969
		Well Pad Name:	OXF153
Notice has been given:	O O A the Occupation has a suited at	ali a como de la como de la como de	
Pursuant to the provisions in West Virginia Code § 2 below for the tract of land as follows:	22-6A, the Operator has provided	the required parties wit	n the Notice Forms listed
State: WV	UTM NAD 83 Easting:		515,755.80
County: Doddridge	UTM NAD 83 Northing:	· · · · · · · · · · · · · · · · · · ·	4,337,884.30
District: Southwest	Public Road Access:		19/11
Quadrangle: Oxford 7.5	Generally used farm name:		I L Morris
Watershed: Chapman Run of South Fork Hugh	es River		
information required by subsections (b) and (c), sect of giving the surface owner notice of entry to survey requirements of subsection (b), section sixteen of thi Virginia Code § 22-6A-11(b), the applicant shall tend of this article have been completed by the applicant.	pursuant to subsection (a), section is article were waived in writing by the proof of and certify to the secr	on ten of this article six- y the surface owner; and	a; or (iii) the notice d Pursuant to West
Pursuant to West Virginia Code § 22-6A, the Operat that the Operator has properly served the required p	•	ce Certification	OOG OFFICE USE ONLY
*PLEASE CHECK ALL THAT APPLY			
NOTICE OF SEISMIC ACTIVITY or SE	TICE NOT REQUIRED BECA ISMIC ACTIVITY WAS COND	USE NO DUCTED	RECEIVED/NOT REQUIRED
NOTICE OF ENTRY FOR PLAT SURVEY	or ▼ NO PLAT SURVEY W	AS CONDUCTED	FRECEIVED
NOTICE OF INTENT TO DRILL or F NO	TICE NOT REQUIRED BECA TICE OF ENTRY FOR PLAT AS CONDUCTED OR	1	RECEIVED/NOT REQUIRED
┌─ WF └─ (PL	RITTEN WAIVER BY SURFAC LEASE ATTACH)	CE OWNER	
NOTICE OF PLANNED OPERATION	Recaived		☐ RECEIVED
PUBLIC NOTICE	Office of CH &	Gas	☐ RECEIVED.
NOTICE OF APPLICATION	JAN <b>09</b> 2015		☐ RECEIVED

#### **Required Attachments:**

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

#### Certification of Notice is kereby given:

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



Subscribed and sworn before me this 39 day of DECEMBER, 2014

Notary Public

#### 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.

Office of Oil & Gas

WW-6A (9-13)

API NO.	47	•	017	 0
OPERATOI	R WEL	515969		
Well Pad	Nam	OXF153		

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

Notice Time Requirement: notice shall be prov	ided no later than the filing date	of permit application.	
Date of Notice: 1-9-15	Date Permit Application Filed:	1-9-15	
Notice of:			
✓ PERMIT FOR ANY	CERTIFICATE OF APPROVAL	L FOR THE	
WELL WORK	CONSTRUCTION OF AN IMP	POUNDMENT OR PIT	
Delivery method pursuant to West Virginia	Code § 22-6A-10(b)		
☐ PERSONAL ☐ REGISTE	RED METH	HOD OF DELIVERY THAT REQUIRES A	
SERVICE MAIL	RECEI	IPT OR SIGNATURE CONFIRMATION	
Pursuant to W. Va. Code § 22-6A-10(I for the construction of an impoundmer requires a receipt or signature confirms plat to each of the following persons: (I the surface tract or tracts overlying the disturbance as described in the erosion lessee, in the event the tract of land on record of the surface tract or tracts overconstruction, enlargement, alteration, rewater purveyor who is known to the appropriate water for conwork activity is to take place. (c)(1) If in the lands, the applicant may serve the article one, chapter eleven-a of this conunless the lien holder is the landowner the surface owner and any water purve	nt or pit as required by this ation, copies of the applica (1) The owners of record of oil and gas leasehold being and sediment control plan which the well proposed to relying the oil and gas lease repair, removal or abandon oplicant to have a water we sumption by humans or do more than three tenants in the documents required upon de. (2) Notwithstanding and W. Va. Code R. § 35-8-5.	sarticle shall deliver, by personal servation, the erosion and sediment control of the surface of the tract on which the new developed by the proposed well we need to be drilled is located [sic] is known to be drilled is located [sic] is known the proposed well by the proposed ment of any impoundment or pit as deall, spring or water supply source located proposed in the person described in the records on the person described in the records by provision of this article to the control. The arequires, in part, that the operator	rice or by registered mail or by any of plan required by section seven of e well is or is proposed to be located; ork, if the surface tract is to be used of this article; (3) The to be underlain by one or more coal ed well work, if the surface tract is to described in section nine of this atted within one thousand five of any natural gas storage field ests described in subsection (b) of of the sheriff required to be cary, notice to a lien holder is not or shall also provide the Well Site
Application Notice WSSP Noti	ice Z E&S Plan Notice Z	Well Plat Notice is hereby provided to:	
☑ SURFACE OWNER(s)	, <u>.</u>		
Name:		Name:	I. L. (Ike) Morris
Address:	P.O. Box 397 A lenville, WV 26351	Address:	P.O. Box 397 Glenville, WV 26351
- Gi	0		0
		See attached for	or additional coal owners.
Name:	0 =	COAL OPERATOR	
Address:	0 N	Name:	0
	0 A	Address:	0
	0		0
☑ SURFACE OWNERS(s) (Road an	d/or Other Disturbance)		0
Name:	I. L. (Ike) Morris		
Address:		SURFACE OWNER OF WATE	ER WELL
Gl	lenville, WV 26351 A	AND/OR WATER PURVEYOR(s)	
	0 N	Name:	I. L. (Ike) Morris
Name:	0 A	Address:	P.O. Box 397
Address:	0		Glenville, WV 26351
	0 -		0
	0		
SURFACE OWNER(s) (Impounds		OPERATOR OF ANY NATURAL	GAS STORAGE FIELD
Name:		Name:	, OND STORAGE TIEED
Address:	The state of the s	Address:	Esperativo
	lenville, WV 26351	Audicos.	Foralser
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Office of Oil & Gas
		DI	

#### WW6-A

#### **Additional Coal Owners:**

WBM Heirs Properties, LLC P.O. Box 2395 Buckhannon, WV 26201

L.E. Sawyer Jr aka Logan E Sawyer Jr P.O. Box 584 Midland, TX 79702

> Received Office of Oil & Gas JAN 0 9 2015

WW-6A (8-13) 4701706714

API NO. 47 - 017 - 0

OPERATOR WELL NO. 515969

Well Pad Name: OXF153

#### Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

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

#### Well Location Restrictions

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

WW-6A (8-13) 4701706714

API NO. <u>47</u> -	017	- 0
OPERATOR WELL NO.		515969
Well Pad Name:		OXF153

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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### **Written Comment:**

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

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450 Received
Office of Oil & Gas
JAN 0 9 2015

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

WW-6A (8-13)

API NO.	<u>47</u>	-	017	-	0
OPERATOR	R WELI	L NO.			515969
Well Pad N	lame:				OXF153

#### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article

#### **Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

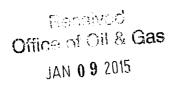
#### **Permit Denial or Condition**

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.



Notice is hereby given by:

Well Operator:	EQT Production Company	Address:	115 Professional Place P.O. Box 280
Геlephone:	304-848-0082	-	Bridgeport, WV 26330
Email:	Vroark@eqt.com	Facsimile:	304-848-004

#### Oil and Gas Privacy Notice:

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

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

I believe that the information is true, accurate and complete. .

OFFICIAL SEAL STATE OF WEST VIRGINIA

NOTARY PUBLIC Nicholas L. Bumgardner

Rt. 1, Box 4 Liberty, WV 25124

By: Victoria Roark

Its: Permitting Supervisor

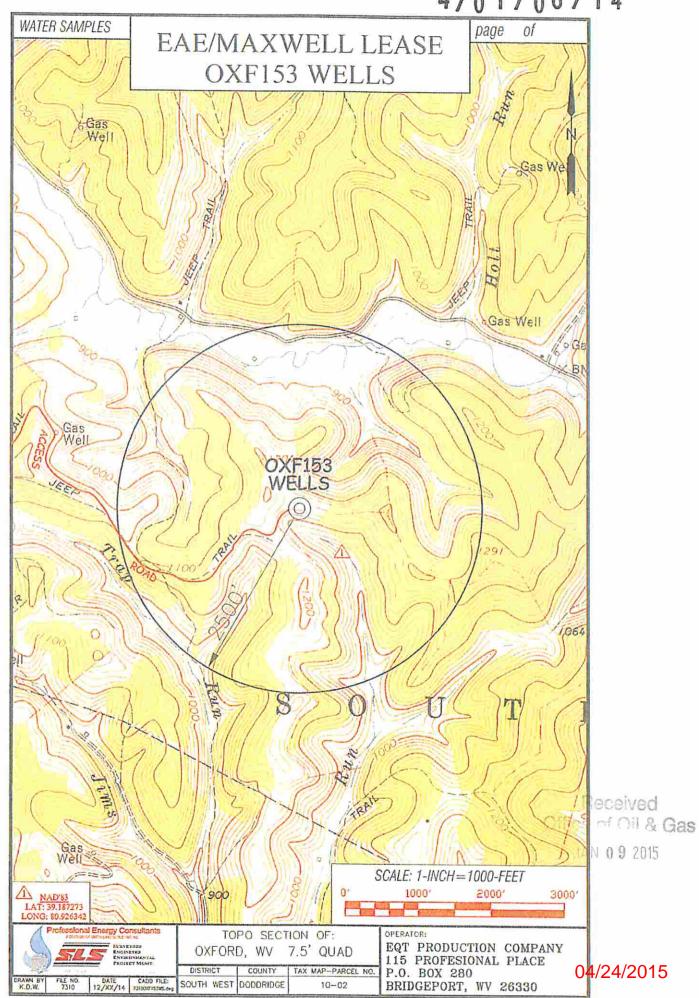
Subscribed and sworn before n 39 day of Jacombek

Notary Public

My Commission Expir

My Commission Expires July 27, 2018

Office of Oil & Gas
JAN 0 9 2015



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

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

Date of Notice	Requirement: Notice shall be provided at least TEN (10 be: Date Permit App		n.
Delivery metr	hod pursuant to West Virginia Code § 22-6A-16(b)		
HAND DELIVE	RY CERTIFIED MAIL RETUING RECEIPT REQUESTED	RN	
receipt request drilling a horize of this subsection ma	V. Va. Code § 22-6A-16(b), at least ten days prior to filir sted or hand delivery, give the surface owner notice of zontal well: Provided, That notice given pursuant to sultion as of the date the notice was provided to the surface was be waived in writing by the surface owner. The notice was provided to the notice was provided to the surface was provided to the surface was provided to the surface owner. The notice was provided to the notice was prov	its intent to enter upon the surface ow bsection (a), section ten of this article so ace owner: Provided, however, That the ce, if required, shall include the name, a	ner's land for the purpose of atisfies the requirements e notice requirements of this address, telephone number,
	eby provided to the SURFACE OWNER(s):		
Name: _	I. L. (Ike) Morris	Name:	0
Address:	P.O. Box 397	Address:	0
	Classilla W/V 26251		0
	Vest Virginia Code § 22-6A-16(b), notice is hereby giver		s an intent to enter upon
Pursuant to W the surface ov State: County: District:	eby given:  Vest Virginia Code § 22-6A-16(b), notice is hereby givenwher's land for the purpose of drilling a horizontal well  WV  Doddridge  Southwest	on the tract of land as follows:  UTM NAD 83  Rorthing  Public Road Access:	515,755.80 4,337,884.30 19/11
Pursuant to W the surface ov State: County: District: Quadrangle:	eby given: Vest Virginia Code § 22-6A-16(b), notice is hereby givenwher's land for the purpose of drilling a horizontal well  WV  Doddridge  Southwest  Oxford 7.5	on the tract of land as follows:  UTM NAD 83  Easting Northing	515,755.80 4,337,884.30
Pursuant to W the surface ov  State: County: District: Quadrangle: Watershed:  This Notice Sh Pursuant to W	eby given:  Vest Virginia Code § 22-6A-16(b), notice is hereby given wher's land for the purpose of drilling a horizontal well   WV  Doddridge  Southwest  Oxford 7.5  Chapman Run of South Fork Hughes River  hall Include:  Vest Virginia Code § 22-6A-16(b), this notice shall include:	on the tract of land as follows:  UTM NAD 83  Northing  Public Road Access:  Generally used farm name:  de the name, address, telephone numb	515,755.80 4,337,884.30 19/11 1L Morris Received er, and if available, Office of Oil & Ga
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Sh Pursuant to W facsimile num related to hor	by given:  Vest Virginia Code § 22-6A-16(b), notice is hereby given wher's land for the purpose of drilling a horizontal well	on the tract of land as follows:  UTM NAD 83  Northing Public Road Access: Generally used farm name:  de the name, address, telephone numb se operator's authorized representative the WV Department of Environmental	515,755.80 4,337,884.30 19/11 IL Morris  Received er, and if available, Office of Oil & Gr. Additional information Protection headquarters, JAN 0 9 2015
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Sh Pursuant to W facsimile num related to hor	WV  Doddridge Southwest Oxford 7.5 Chapman Run of South Fork Hughes River  West Virginia Code § 22-6A-16(b), notice is hereby giver  WV  Doddridge Southwest Oxford 7.5 Chapman Run of South Fork Hughes River  Hall Include: West Virginia Code § 22-6A-16(b), this notice shall include the rizontal drilling may be obtained from the Secretary, at 1 57th Street, SE, Charleston, WV 25304 (304-926-0450)	on the tract of land as follows:  UTM NAD 83  Northing Public Road Access: Generally used farm name:  de the name, address, telephone numb se operator's authorized representative the WV Department of Environmental	515,755.80 4,337,884.30 19/11 IL Morris  Received er, and if available, Office of Oil & Gr. Additional information Protection headquarters, JAN 0 9 2015
Pursuant to W the surface ov  State: County: District: Quadrangle: Watershed:  This Notice Sh Pursuant to W facsimile num related to hor located at 601	Peby given:  Vest Virginia Code § 22-6A-16(b), notice is hereby given wher's land for the purpose of drilling a horizontal well   WV Doddridge Southwest Oxford 7.5  Chapman Run of South Fork Hughes River  Pest Virginia Code § 22-6A-16(b), this notice shall include there and electronic mail address of the operator and the rizontal drilling may be obtained from the Secretary, at 1 57th Street, SE, Charleston, WV 25304 (304-926-0450)   Peby given by:	on the tract of land as follows:  UTM NAD 83  Northing Public Road Access: Generally used farm name:  de the name, address, telephone numb se operator's authorized representative the WV Department of Environmental	515,755.80 4,337,884.30 19/11 IL Morris  Received er, and if available, Additional information Protection headquarters, d-gas/pages/default.aspx  Victoria Roark
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Sh Pursuant to W facsimile num related to hor located at 601 Notice is here	Peby given:  Vest Virginia Code § 22-6A-16(b), notice is hereby given wher's land for the purpose of drilling a horizontal well   WV  Doddridge Southwest Oxford 7.5  Chapman Run of South Fork Hughes River  Pest Virginia Code § 22-6A-16(b), this notice shall include the and electronic mail address of the operator and the rizontal drilling may be obtained from the Secretary, at 1 57th Street, SE, Charleston, WV 25304 (304-926-0450)   Peby given by:  EQT Production Company 115 Professional Place, P.O Box 280	on the tract of land as follows:  UTM NAD 83  Public Road Access:  Generally used farm name:  de the name, address, telephone numb le operator's authorized representative the WV Department of Environmental of or by visiting www.dep.wv.gov/oil-an	515,755.80 4,337,884.30 19/11 IL Morris  Received er, and if available, Office of Oil & Granditional information Protection headquarters, d-gas/pages/default.aspx  Victoria Roark 115 Professional Place, P.O Box 280
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Sh Pursuant to W facsimile num related to hor located at 601 Notice is here Well Operator:	Peby given:  Vest Virginia Code § 22-6A-16(b), notice is hereby given wher's land for the purpose of drilling a horizontal well   WV  Doddridge Southwest Oxford 7.5  Chapman Run of South Fork Hughes River  Hall Include:  Vest Virginia Code § 22-6A-16(b), this notice shall include the and electronic mail address of the operator and the rizontal drilling may be obtained from the Secretary, at 1 57th Street, SE, Charleston, WV 25304 (304-926-0450)  Peby given by:  EQT Production Company	on the tract of land as follows:  UTM NAD 83  Public Road Access:  Generally used farm name:  de the name, address, telephone numb be operator's authorized representative the WV Department of Environmental or by visiting www.dep.wv.gov/oil-an	515,755.80  4,337,884.30  19/11  IL Morris  Received er, and if available, Additional information Protection headquarters, d-gas/pages/default.aspx  Victoria Roark  115 Professional Place, P.O Box 280 Bridgeport, WV 26330
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Sh Pursuant to W facsimile num related to hor located at 601 Notice is here Well Operator: Address:	Peby given:  Vest Virginia Code § 22-6A-16(b), notice is hereby giver wner's land for the purpose of drilling a horizontal well   WV  Doddridge  Southwest  Oxford 7.5  Chapman Run of South Fork Hughes River  Post Virginia Code § 22-6A-16(b), this notice shall include the and electronic mail address of the operator and the rizontal drilling may be obtained from the Secretary, at 1 57th Street, SE, Charleston, WV 25304 (304-926-0450)  Post Production Company  115 Professional Place, P.O Box 280  Bridgeport, WV 26330  304-848-0076	on the tract of land as follows:  UTM NAD 83  Public Road Access:  Generally used farm name:  de the name, address, telephone numb be operator's authorized representative the WV Department of Environmental or by visiting www.dep.wv.gov/oil-an	515,755.80 4,337,884.30 19/11 IL Morris  Received er, and if available, Additional information Protection headquarters, d-gas/pages/default.aspx  Victoria Roark 115 Professional Place, P.O Box 280 Bridgeport, WV 26330 304-848-0076
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Sh Pursuant to W facsimile num related to hor located at 601 Notice is here Well Operator: Address:	Peby given:  West Virginia Code § 22-6A-16(b), notice is hereby given wher's land for the purpose of drilling a horizontal well   WV  Doddridge  Southwest  Oxford 7.5  Chapman Run of South Fork Hughes River  Post Virginia Code § 22-6A-16(b), this notice shall include the and electronic mail address of the operator and the rizontal drilling may be obtained from the Secretary, at 1 57th Street, SE, Charleston, WV 25304 (304-926-0450)  Post Street, SE, Charleston, WV 25304 (304-926-0450)  EQT Production Company  115 Professional Place, P.O Box 280  Bridgeport, WV 26330	on the tract of land as follows:  UTM NAD 83  Public Road Access:  Generally used farm name:  de the name, address, telephone numble operator's authorized representative the WV Department of Environmental of or by visiting www.dep.wv.gov/oil-an Authorized Representative:  Address:	515,755.80  4,337,884.30  19/11  IL Morris  Received er, and if available, Additional information Protection headquarters, d-gas/pages/default.aspx  Victoria Roark  115 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 04/24/2015 DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

Operator Well No.

515969

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

Notice Time Re Date of Notice	equirement: notice shall be provided no late ::	er than the filing date of permit a late Permit Application Filed:	application			
Delivery method pursuant to West Virginia Code § 22-6A-16(c)						
25 to 100	FIED MAIL HAN RN RECEIPT REQUESTED DELI	D IVERY				
return receipt re the planned ope required to be p drilling of a horiz damages to the	Va. Code § 22-6A-16(c), no later than the date for equested or hand delivery, give the surface owner tration. The notice required by this subsection sharovided by subsection (b), section ten of this artice and well; and (3) A proposed surface use and contain the surface affected by oil and gas operations to the equired by this section shall be given to the surface	r whose land will be used for the dri all include: (1) A copy of this code so cle to a surface owner whose land w ompensation agreement containing extent the damages are compensab	illing of a horizontal well notice of ection; (2) The information vill be used in conjunction with the an offer of compensation for le under article six-b of this chapter.			
	provided to the SURFACE OWNER(s)	1				
E/07	isted in the records of the sheriff at the time of no	000 Je 380				
Name:	I. L. (Ike) I	CANADA CANADA	0			
Address:	P.O. Bo Glenville, WV		0			
Notice is hereby	given:					
Pursuant to Wes	et Virginia Code § 22-6A-16(c), notice is hereby given surface owner's land for the purpose of drilling of WV Doddridge	a horizontal well on the tract of land UTM NAD 83 Easting: Northing:				
Pursuant to Wes operation on the State:	ext Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a WV Doddridge Southwest	a horizontal well on the tract of land UTM NAD 83 Easting: Northing: Public Road Access:	d as follows: 515,755.800000			
Pursuant to Wes operation on the State: County: District: Quadrangle:	ext Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a WV  Doddridge  Southwest  Oxford 7.5	a horizontal well on the tract of land UTM NAD 83 Easting: Northing:	d as follows: 515,755.800000 4,337,884.300000			
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relations.	to Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling a WV    Doddridge   Southwest     Oxford 7.5     Chapman Run of South Fork Hughes River     Include:   It Virginia Code § 22-6A-16(c), this notice shall include:   It Virginia Code § 22-6A-10(b) to a surface owner wand (3) A proposed surface use and compensation by oil and gas operations to the extent the damage and the composition of the code of the cod	a horizontal well on the tract of land UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  clude: (1)A copy of this code section whose land will be used in conjunct in agreement containing an offer of ges are compensable under article s the Secretary, at the WV Department	t as follows:  515,755.800000  4,337,884.300000  19/11  I L Morris  ; (2) The information required ion with the drilling of a compensation for damages to the six-b of this chapter. Additional t of Environmental Protection			
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Wes to be provided be horizontal well; a surface affected information relaineadquarters, lo	to Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling a WV    Doddridge   Southwest     Oxford 7.5     Chapman Run of South Fork Hughes River     Include:   It Virginia Code § 22-6A-16(c), this notice shall include:   It Virginia Code § 22-6A-10(b) to a surface owner wand (3) A proposed surface use and compensation by oil and gas operations to the extent the damage and the composition of the code of the cod	a horizontal well on the tract of land UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  clude: (1)A copy of this code section whose land will be used in conjunct in agreement containing an offer of ges are compensable under article in the Secretary, at the WV Department 04 (304-926-0450) or by visiting wv	t as follows:  515,755.800000  4,337,884.300000  19/11  I L Morris  ; (2) The information required ion with the drilling of a compensation for damages to the six-b of this chapter. Additional t of Environmental Protection			
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Wes to be provided be horizontal well; a surface affected information relainheadquarters, lopages/default.as	to Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling a WV  Doddridge Southwest Oxford 7.5 Chapman Run of South Fork Hughes River  I Include:  It Virginia Code § 22-6A-16(c), this notice shall include:  It Virginia Code § 22-6A-10(b) to a surface owner wand (3) A proposed surface use and compensation by oil and gas operations to the extent the dama ted to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 253 (52).	a horizontal well on the tract of land UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  clude: (1)A copy of this code section whose land will be used in conjunct in agreement containing an offer of ges are compensable under article in the Secretary, at the WV Department 04 (304-926-0450) or by visiting wv	t as follows:  515,755.800000  4,337,884.300000  19/11  I L Morris  ; (2) The information required ion with the drilling of a compensation for damages to the six-b of this chapter. Additional t of Environmental Protection ww.dep.wv.gov/oil-and-gas/			
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed:  This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relaine headquarters, lopages/default.as	the Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling a WV  Doddridge Southwest Oxford 7.5  Chapman Run of South Fork Hughes River  I Include:  It Virginia Code § 22-6A-16(c), this notice shall include:  It Virginia Code § 22-6A-10(b) to a surface owner of the surface owner ow	a horizontal well on the tract of land UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  clude: (1)A copy of this code section whose land will be used in conjunct in agreement containing an offer of ges are compensable under article sine Secretary, at the WV Department 04 (304-926-0450) or by visiting www.  Address:  115 Professional	t as follows:  515,755.800000  4,337,884.300000  19/11  I L Morris  ; (2) The information required ion with the drilling of a compensation for damages to the six-b of this chapter. Additional t of Environmental Protection ww.dep.wv.gov/oil-and-gas/			

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Office of Oil & Gas



#### 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

March 12, 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 OXF153 Well Site, Doddridge County

515969 OXF153H6 515970 OXF153H7

Dear Mr. Martin,

**Earl Ray Tomblin** 

Governor

This well site will be accessed from Permit # 04-2015-0149 which has been applied for by EQT Production Company for access to the State Road for a well pad located off of County Rt. 19 SLS in Doddridge County.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

RECEIVED
Office of Oil and Gas

MAR 1 6 2015

WV Department of Environmental Protection

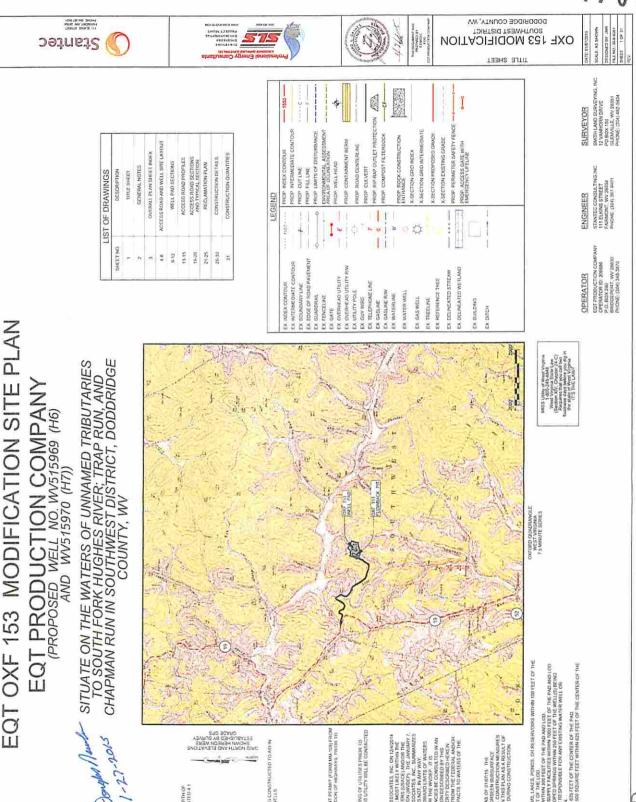
File

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

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

Received
Office of Oil & Gas

JAN 09 2015



SITE DISTURBANCE COMPUTATIONS

AISS UTILITY STATEMENT

ENTRANCE PERMIT

ENVIRONMENTAL NOTES

GEOTECHNICAL NOTES

RESTRICTIONS NOTES

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Talling the the state of the st

EQT OXF 153 ASSOCIATED FLOWBACK PIT CENTER LATITUDE: 38 1909/ LONGITUDE, ROILINGS (NAD

SENERAL DESCRIPTION

OCATION COORDINATES

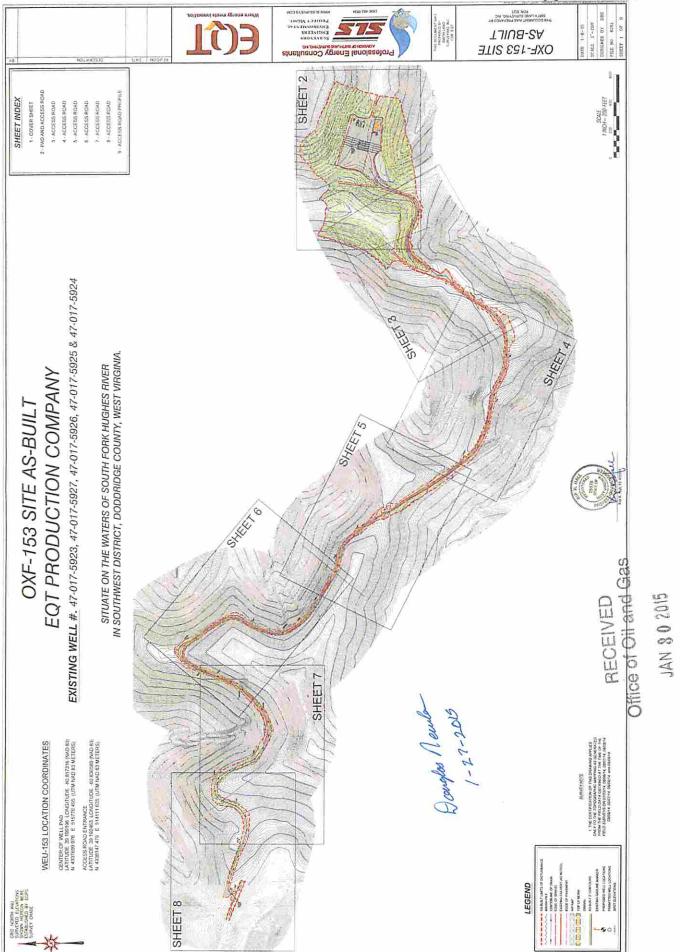
# RECEIVED Office of Oil and Gas

WV Department of Environmental Protection

PROJECT INFORMATION

EST DISTRICT, DODG

NAMP OF PARCES.
TOTAL DISTURBANCE AREA. TO A ACRES
TOTAL DISTURBANCE AREA. TO A ACRES
IS AND OAG ROYALY OWNER.
WE MAN TOTAL DISTURBANCE AREA. TO CHARLE ACRES
COLORAGE TO WINGT.



04/24/2015

Environmental Protection

WV Department of

A STATE

IGP. COMPOST FILTERSOCK PROP. ROCK CONSTRUCTION SHTRANCE

SECTION GRID INDEX

HOP, CONTAINMENT BERN

ENVIRONMENTAL ASSE AREA OF DELINEATION

PROP. WELL HEAD

ROP, ROAD CENTERLINE

¢

EX, OVERHEAD UTILITY EX, OVERHEAD UTILITY RAW

EX. FENGELINE EX. CATE

EX. GUY WIRE EX. TELEPHONE LINE

X UTILITY POLE

EX. GASLINE EX. GASLINE HW EX. WATERLINE

EX. WATER WELL EX. CAS WELL EX, TREELINE

SOP. CULVERT

PROP. CUT LIVE PROP. FILL LINE PROP. LIMITS OF DISTURBANCE

EX. BOUNDARY LINE EX. EDGE OF ROAD PAVENENT

EGEND

ROP, PERIMETER SAFETY FENCI SECTION GRID INTERMEDIATE SECTION EXISTING GRADE ROP, ACCESS GATE WITH MERGENCY LIFELINE

B.A. W. W.

EX. DELINEATED STREAM

EX, REFERENCE TREE

EX. BUILDING

волинител різтікст волинител різтікст

таана алгп

EQT FRODUCTION COMPANY OPERATOR ID: 306685 P.O. BOX 250 BRIDGEPORT, WV 26630 PHONE; (304) 345-3970 OPERATOR

ENGINEER

SMITH LAVID SURVEYING, INC. 12 VANHORN DRIVE PO BOX 110 GLEVILLE WY 26351 PHONE: (304) 422-5531

SURVEYOR

APPROVED 3:31:15

WVDEP OOG

EQT OXF 153 MODIFICATION SITE PLAN

EQT PRODUCTION COMPANY (PROPOSED WELL NO. WV515969 (H6), WV515970 (H7), WV516239 (H8), AND WV516251 (H9)))

IOMESTICAN ONDER PLEIX AND PROPERTY LEGISLA SPENCE LLE Stantec

SITUATE ON THE WATERS OF UNNAMED TRIBUTARIES TO SOUTH FORK HUGHES RIVER; TRAP RUN, AND CHAPMAN RUN IN SOUTHWEST DISTRICT, DODDRIDGE COUNTY, WV

ACCESS ROAD AND WELL SITE LAYOUT

2

OVERALL PLAN SHEET INDEX

GENERAL NOTES

TITLE SHEET

LIST OF DRAWINGS

SHEET NO.

WELL PAD AND FLOWBACK PIT SECT

ACCESS ROAD PROFILES AND TYPICAL SECTIONS
AND TYPICAL SECTION CONSTRUCTION DETAILS RECLAMATION PLAN

9-14 15-17 18-22 23-27

SITE LOCATION:
THE LOCATION:
THE LINCTION OF RESIDE EVIRANCE BLOCATED 2.6 M \*\*/ NORTH OF
THE JUNCTION OF OR 19 AND CR 52. THE WELL PAD IS LOCATED 4.7
MLES -4. NORTH OF THE SAME, JUNCTION.

EGIT OXF 153 WELL PAD CENTER
ATTITUDE: 39.190105 LONGITUDE: 80.817504 (NAD 83)

LOCATION COORDINATES

OIL AND GAS ROYALTY GWYEEL
WASH HERIS PROPERTIES, LLC (1.991+/- ACRES)
SOUTHWEST DISTRICT
GODDHOLE COLNTY, WY

DODGRIDGE COUNTY, WY

TAX MAP 10 PARCEL 2

TOTAL PROFERTY AREA 6,600.75 +1- ACRES

TOTAL DISTURBANCE AREA: 11.0 +4 ACRES

UTHWEST DISTRICT DORIDGE COUNTY, WV X MAP 10 PARCEL 2

SURFACE CHANGES: IL. MORRIS

TAX PARCEL: SOUTHWEST DISTRICT, DODDRIDGE: TAX MAP 10

PROJECT INFORMATION

PROJECT NAME: EQT OXF 153

# EGF OXF 153 ASSOCIATED FLOWINGER PT CENTER. LANTIQUES 10099T LONGITUDES 80,419101 (NAD.8.1) EGT OXF 153 ACCESS ROAD AT CR 19 LANTIQUES 92 120491 LONGITUDE 80,89641 (NAD.8.3) LANTIQUES 92 120491 LONGITUDE 80,89641 (NAD.8.3)

THE WELL PAD, ACCESS ROAD, AND FLOWBACK I'M ARE HEING CONTHE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS GENERAL DESCRIPTION

# SITE DISTURBANCE COMPUTATIONS

WELL PADELOWBACK PIT AREA = 11.9 +> ACRES ACCESS ROAD = 6.7 +> ACRES TOTAL SHE DISTURBANCE AREA = 18.6 +> ACRES

## ENTRANCE PERMIT

MISS UTILITY STATEMENT

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## GEOTECHNICAL NOTES

## RESTRICTIONS NOTES

A PERENAM, STREAMS, LAKES, POWDS, OR RESERVORS WITHIN 100 PEET OF THE AMOS WITHIN 100 PEET OF THE LOD.

15 TROUT STREAMS WITHIN 300 FEET OF THE PAD AND LOD.

COR PUBLIC WATER SUPPLY PACKINGS WITHIN 1000 FEET OF THE PAD AND LOD.

COR PUBLIC SOR DEVICE OPED SPRINGS WITHIN 230 FEET OF THE WELL(S) BEING MARKEYING ARE NOT HE WELL(S) BEING MARKEYING ARE NOT RESPONSIBLE FOR ANY EXIST HOW WATER WELL OR

WITHIN 625 FEET OF THE CENTER OF THE PAD.
THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE

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