

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

March 12, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706706, 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

Chie

Operator's Well No: 515939

Farm Name: COGAR, ARDEN & CAROL

API Well Number: 47-1706706

Permit Type: Horizontal 6A Well

Date Issued: 03/12/2015

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.
- 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.

4701706706 APINO. 47 - 017 - 06706

OPERATOR WELL NO.

Well Pad Name:

OXF44

STATE OF WEST VIRGINIA

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

1) Well Operator: EQT Prod	uction Company		306686	017		7
,	eeuen eempuny		Operator ID	County	District	526 Quadrangle
0.0				Journey	District	Quadrangle
2) Operator's Well Number:		515939		_Well Pad Name	0	XF44
3) Farm Name/Surface Owner	:Ard	en & Carol Co	ogar	Public Road Access: 52/3		
4) Elevation, current ground:	1,170.0	_ Elevati	ion, proposed p	ost-construction:	1,170.0	
5) Well Type: (a) Gas	Oil	Uno	derground Stora	nge		
Other						
(b) If Gas:	Shallow	•	Deep			
	Horizontal	•			ϱ	LW 3-2014
6) Existing Pad? Yes or No:	Yes				•	12-20
7) Proposed Target Formation(s), Depth(s), Antici	pated Thickne	esses and Asso	ciated Pressure/s	١٠	
Target formation is Marcellus	at a depth of 6579					e of 2951 PSI
8) Proposed Total Vertical Dep	th:			6579		
9) Formation at Total Vertical D				Marcellus		
10) Proposed Total Measured [Jamila.			10,647		
11) Proposed Horizontal Leg Le	ength			2,880		
12) Approximate Fresh Water S	Strata Depths:		4, 93, 130), 244, 285, 328, 5	96, 919, & 1139)
13) Method to Determine Fresh	Water Depth:			By offset wel	ls	
14) Approximate Saltwater Dep	ths:			1,821		
15) Approximate Coal Seam De	·			None Reported		
16) Approximate Depth to Poss					None report	ed
17)Does proposed well location		ns directly ove	rlying or			
adjacent to an active mine?			Ye	s	No	
(a) If Yes, provide Mine Info	: Name:					
	Depth:					
	Seam:					
	Owner:					

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OPERATOR WELL NO. Well Pad Name:

CASING AND TUBING PROGRAM

4701706706

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TYPE	Size	New	Grade	Weight per ft.	LEGOTAGE E	11/7777	
	(in)		Glade		FOOTAGE: For	INTERVALS:	· CEMENT:
	71111	<u>or</u> .		(lb/ft)	<u>Drilling (ft)</u>	Left in Well	Fill- up (Cu.Ft.)
		Used			<u>[</u>	<u>(ft)</u>	
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	MC-50	54	1,153	1,153	
01				 		1,100	996 C.T.S.
Coal				_	-	_	l <u>-</u>
Intermediate	9 5/8	New	MC-50	40	3,031	3,031	1,197 C.T.S.
Production	5 1/2	New	P-110	20	10,647	10,647	
	0.0/0				10,047	10,047	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		Ĭ					

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

12.23	_

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

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

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

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API NO.	<u>47</u>		017	
PERATO	R WE	LL NO		515939
Mall Par	1 Mar	na.		OXE

19) Describe proposed well work, including the drilling and plugging back of any pilot hole: 470 1 7 0 6 7 0 6
Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an approximte depth of 5026'. Then kick off
the horizontal leg into the Marcellus using a slick water frac.
CO) Describe freetry in glating matheds in detail in shulling action and any angular
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid,
gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum
anticipated treating pressures are expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sailo per stage.
21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): ±15.7 ac
22) Area to be disturbed for well pad only, less access road (acres): ±6.2 ac
23) Describe centralizer placement for each casing string.
Surface: Bow spring centralizers — One at the shoe and one spaced every 500'. Intermediate: Bow spring centralizers — One cent at the shoe and one spaced every 500'.
 Intermediate: Bow spring centralizers— One cent at the shoe and one spaced every 500'. Production: One spaced every 1000' from KOP to Int csg shoe
The second state of the se
24) Describe all cement additives associated with each cement type. Surface (Type 1 Cement): 0-3% Calcium Chloride
Used to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement
slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate)
to a thief zone.
Production:
Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.
0.3% CFR (dispersant). Makes cement easier to mix.
Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.
0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.
60 % Calcuim Carbonate. Acid solubility.
0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.
25) Proposed borehole conditioning procedures. Surface: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5
minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on
and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at
surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to enhance
hole cleaning use a soap sweep or increase injection rate & foam concentration.
<u>Production</u> : Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across
the shakers every 15 minutes.

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



December 10, 2014

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

Re: Casing plan on Wells (OXF44)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 1153' KB, below the Fresh Water zone. We will set the 9-5/8" intermediate string at 3031' KB, below the base of the Bayard formation. This casing plan is the same at the previous wells drilled by EQT on this pad.

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

Sincerely,

Vicki Roark

Permitting Supervisor

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DEC 1 8 2014



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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.

Iames Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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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.

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

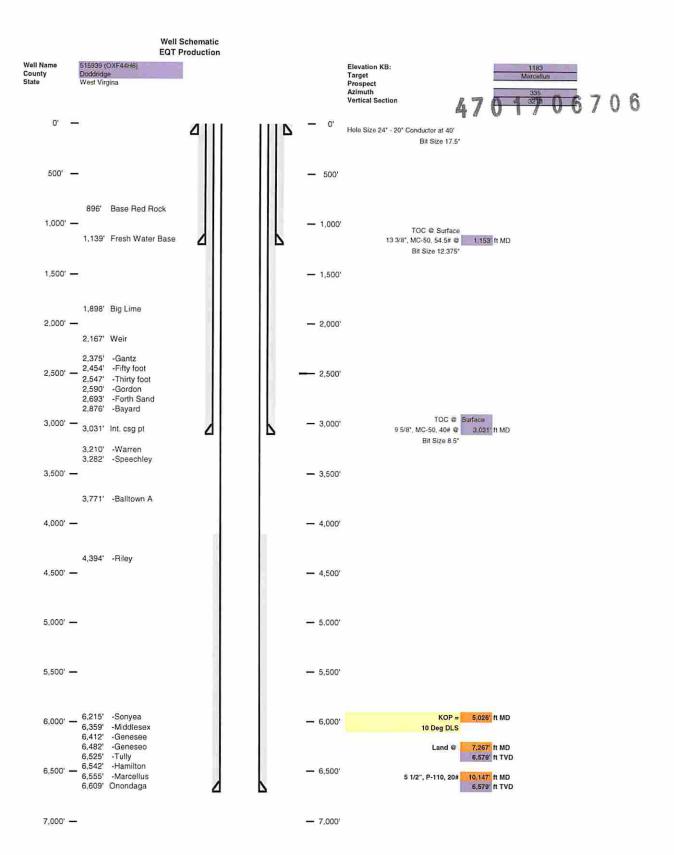
It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 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

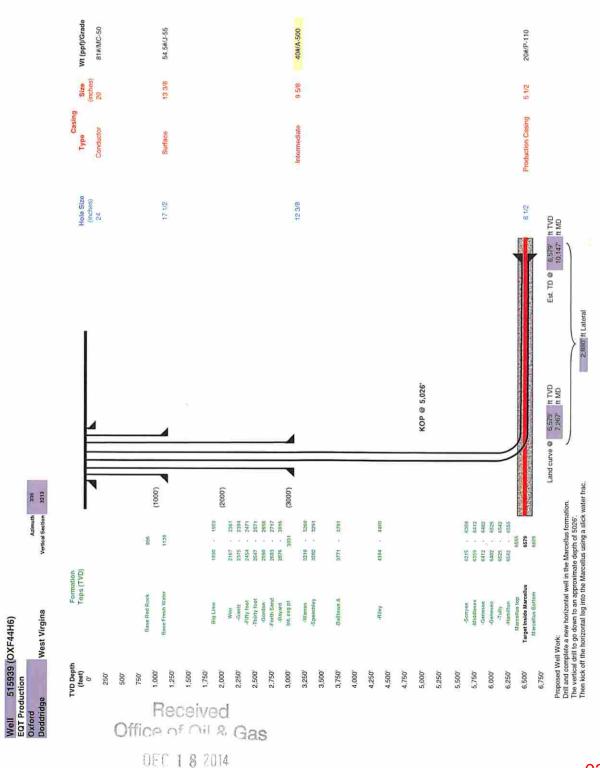
OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OF THE STATE OF WEST VIRGINIA

James Martin, Chief Office of Oil and Gas



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DEC 1 8 2014



03/13/2015

WW-9 (5/13)

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API No. 47	017				470Cp
Operator's \	Vell No.			515939	TO U

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name	EQT P	roduction Compa	ıny	OP Co	de	306686	
Watershed (HUC10) _	Tributa	ry of Straight Fork		Quadrangle _		ford 7.5	_
Elevation	1170.0	County		_	strict	Southwest	_
Do you anticipate using			to complet	e the proposed	well work?	Yes x No _	- -
Will a pit be used? Ye							
	scribe anticipated	· ·		flowback wat	er & residual	solids	_
Will a synthetic	liner be used in	the pit? Yes_	X	_No	If so, wha	t ml.?60	
Proposed Dis	Land Ap	For Treated Pit Woplication					DON 12.27-2014
		ound Injection (at API Number	(UIC Pe	ermit Number_		162, 4037	1/2.2
· · · · · · · · · · · · · · · · · · ·			only form \	Va VW-9 for dispo	rious		<u>)</u>
		(Explain	эрту тоттт т	- Tor dispos	sai location)		<u>.</u>
Will closed loop system		Yes, The closed lo	op system v	vill remove drill cu	uttings from the	e drillina	
fluid. The drill cuttings ar	e then prepared	for transportation to	o an off-site	disposal facility.			-
Drilling medium antic	ipated for this v	vell? Air, freshwat	er, oil bas	ed, etc. Air is use	d to drill the top-hole	sections of the wellbore,	-
				Surface,	Intermediate, and Pile	ot hole sections, water based	•
If oil based	what time? Su	nthetic, petroleum		mud is us	ed to drill the curve a	nd lateral.	-
Additives to be used in		_		Silin in Control of	•		-
Deflocculant, Lubricant, Dete	-		SCOSILET, AIKE	erra. Of the listed	Chloride Salts,	Rate Filtration Control,	•
generally used when drilling	on air: lubricant, d	etergent, defoaming	Water baser	fluids use the folia	chemicals the to	. All DAD	•
viscosifer, alkalinity control, li	me, chloride salts,	rate filtration control.	deflocculant	. lubricant deterne	ent defoaming	walnut sholl	•
x-cide, SOLTEX terra	_		=		m, coloaning, i	warrut siteli,	•
Drill cuttings disposal r	method? Leave	in pit, landfill, rer	noved offs	ite, etc.	Lan	dfill	
		hat medium will be us	ed? (Cemen	t, Line, sawdust)		n/a	•
- Landfill or off	site name/permit	number?		See Atta	ched List		
I certify that I understa	nd and agree to th	e terms and condition	s of the GEN	ERAL WATER PO	LLUTION PERM	AIT issued	
on August 1, 2005, by the Off	ice of Oil and Gas	of the West Virginia (Department o	f Environmental Pr	otection. I unde	rstand that the	
provisions of the permit are e or regulation can lead to enfo	riorceable by law.	violations of any tern	or condition	of the general per	mit and/or other	applicable law	
I certify under penalty		ersonally examined a	nd am familia	ar with the informat	ion submitted or	n thic	
application form and all attact	nments thereto and	that, based on my in	quiry of those	e individuals immed	diately responsit	ole for obtaining	
he information, I believe that	the information is t	rue, accurate, and co	mplete. I am	aware that there a	re significant pe	nalties for	leceived
submitting false information, i	ncluaing the possi	oility of fine or impriso	nment.	_/ /		Office	of Oil & Gas
Company Official Signa			In			۱۸	N 0 6 2015
Company Official (Type	d Name)			ictoria J. Roark		JA	14 00 2013
Company Official Title			Permittii	ng/Supervisor			
Subscribed and sworn b	efore me this		lay of	DELEMBER		, 20 <u>/4</u>	
	B				Nota	ry Public	
	T	1.1	-4	Sin	111111111111111111111111111111111111111		mme
My commission expires	/	7/24/20	918		OF THE PARTY OF TH	OFFICIAL SEAL STATE OF WEST VIR	GINIA 🚆
		•			The state of	NOTARY PUBL Nicholas L. Bumgar	
						Rt. 1, Box 4 Liberty, WV 251	03/13/2015
					CHICAL STREET	ly Commission Expires Jul ************************************	y 27, 2018 = ##########

Operator's Well No.

	47	017	7-1	56	70	06
47		7 0				

Proposed Revegetation T	reatment: Acres Disturbe	d ± 15.7	Prevegetation pH 6.5
Lime	3 Tons/acre or to correct to pH		6.5
Fertilize type			
Fertilizer Amount		bs/acre (500 lbs minimum)	
Mulch	2	Tons/acre	
		Seed Mixtures	
Temp	oorary		Permanent
Seed Type (Y-31	lbs/acre 40	Seed Type Orchard Grass	lbs/acre 15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
attach:			
Attach: Drawing(s) of road, location	n,pit and proposed area for	or land application.	
Photocopied section of invo			
	* -		
Plan Approved by:	Touglas Nearl		
omments: Prese	ed + Mulch	install Ets	TO WO Den
regulations			100/
·			
tle: Oil F Ga	5 Inspector	Date: 12-2	3-2014
eld Reviewed? ()	Yes () No

Office of Oil & Gas

JAN 06 2015

EQT Production Water plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

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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



47-017-06706 4701706706

Site Specific Safety Plan

EQT OXF 44 Pad

West Union Doddridge County, WV

_515939515940	For Wells:	
EQT Production Depenture Supercusor Title 116-14 Date	Title	
	Received	

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