

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

November 13, 2014

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10303031, 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: 515109

Farm Name: COASTAL FOREST RESOURCES

API Well Number: 47-10303031

Permit Type: Horizontal 6A Well

Date Issued: 11/13/2014

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.

11/14/2014

4710303031

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 Production	on Company		0===1==10	103	4	254
				Operator ID	County	District	Quadrangle
2) Operator's Well	Number:		515109		Well Pad Nam	e:	BIG360
3) Farm Name/Sur	face Owner :	Coa	stal Forest Res	rest Resources Public Road Access: Rt			Rt 76
4) Elevation, curre	nt ground:	1,008.0	Eleva	tion, proposed p	ost-construction:	998.0	
5) Well Type: (a) G	ias <u> </u>	Oil	Un	derground Store	age		
c	Other			_			
(b)) If Gas:	Shallow _		Deep			
	H	lorizontal _	8				
6) Existing Pad? Ye	es or No:	No					
7) Proposed Targe	t Formation(s), I	Depth(s), An	ticipated Thickr	nesses and Asso	ociated Pressure	(s):	
Target formation is	Marcellus at a	depth of 7	085 with the antici	pated thickness to b	e 63 feet and antic	pated target pressi	ure of 4482 PSI
					7.005		
8) Proposed Total					7,085		
9) Formation at Total	•	-			Marcellus 12,142		
10) Proposed Tota	•				3,600		
11) Proposed Horiz12) Approximate Fi					none reprt		
13) Method to Dete					By offset w		
14) Approximate S		-			1,961	<u> </u>	
15) Approximate C	=				9, 650, 752, 784	& 935	
16) Approximate D			mine, karst, oth			None repo	orted
	sed well location						
(a) If Yes, prov		Name:					
(a) ii tes, piuv	ide Mille IIIIo.	Depth:					
		Seam:					
		Owner:					
				T)	LII		
				Vij	ላ <i>ነ</i> ¦-ና-1ሣ		
				C	i-5~14		Page 1 of 3

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WW - 6B' (3/13)

CASING AND TUBING PROGRAM

18)

TYPE	Size	New	Grade	Weight per	FOOTAGE:	INTERVALS:	CEMENT:
	<u>Oize</u>	or Used	aidoo	ft.	for Drilling	Left in Well	Fill- up (Cu.Ft.)
Conductor	26	New	MC-50	77	80	80	98 C.T.S.
Fresh Water	13 3/8	New	MC-50	54	885	885	772 C.T.S.
Coal	_	-	-		_	-	
Intermediate	9 5/8	New	MC-50	40	3,117	3,117	1,222 C.T.S.
Production	5 1/2	New	P-110	20	12,142	12,142	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	<u>Wellbore</u> <u>Diameter</u>	<u>Wall</u> <u>Thickness</u>	<u>Burst</u> <u>Pressure</u>	<u>Cement</u> <u>Type</u>	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	•	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,480	* See Note 2	1.21
Coal						
Intermediate	9 5/8	12 3/8	0.395	3,590	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing						
Liners						

Packers

	T T	
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

DM4 5-5-19

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August 22, 2014

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

Re: Casing on BIG360 Wells

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 885' KB, below the deepest red rock formation without setting below elevation. This will cover up red rock formations that have given EQT drilling issues in the past. We will set the 9-5/8" intermediate string at 3117' KB, approximately 50' below the Bayard formation.

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

Sincerely

Vicki Roark

Permitting Supervisor

Enc.

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WV Department of

(3/13)

19) Describe proposed well work, including the drilling and plugging back of any pile	ot hole:
Ortil and complete a new horizontal well in the Marcellus Formation. The vertical drill to go down to	an approximate depth of 4,485'. Then kick
off the horizontal leg into the marcellus using a slick water frac.	
20) Describe fracturing/stimulating methods in detail, including anticipated max pre	
Hydraulic fracturing is completed in accordance with state regulations using water recycled from previous freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals	ty tractured wells and obtained from
gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "si	ickwater completion. Maximum
anticipated treating pressures are expected to average approximately 8500 psi, maximum anticipated treapproximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barro	ating rates are expected to average els of water per stage. Sand sizes
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.	
21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres):	± 16.03 AC
22) Area to be disturbed for well pad only, less access road (acres):	± 5.02 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 eve 	ry 500'.
Production: One spaced every 1000' from KOP to Int csg shoe	
24) Describe all cement additives associated with each cement type. Surface Used to speed the setting of cement slurries.	(Type 1 Cement): 0-3% Calcium Chloride
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 slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole dri	formations to speed the setting of cement
to a thief zone.	ining india or content corry (instances)
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 % Calculm 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 (Appro	ximately 30-45 minutes) rotating & reciprocating
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish,	
minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is f	III. bring compressors back on
minutes. To ensure that there is no till, short trip two stands with to croditation if the increased cuttings volume likely increased	licates washouts that will not clean up.
and circulate hole clean. A constant rate of higher than expected cuttings volume likely inc	all joint until cuttings diminish at
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one for	minutes If from drilling to enhance
surface. When cuttings returning to surface diminish, continue to circulate an additional 5	minutes. Il loan drilling, to enhance
hole cleaning use a soap sweep or increase injection rate & foam concentration.	
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a ga	uge 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 D
the shakers every 15 minutes.	Office of Oil and Gas
	SEP 10 2014
*Note: Attach additional sheets as needed.	••
4.57	W// Department or
	Environmental Protagetions

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Casing TVD Dopth Formation Size Wt (ppf)/Grade Holo Sizo Тури (feat) Tops (TVD) (inches) (inches) 77#/MC-50 Conductor 30 25 250 500 750 17 1/2 Surface 13 3/8 54#/MC-50 (1000) 1,000 1,250 1,500 1,750 1000 - 1935 Big Lime 2010 - 2003 2,000 Olg lojun 2131 - 2335 (2000) Wetr 2005 - 2402 2540 - 2590 2,250 -Ganta -Filty foot 2520 - 2630 2693 - 2723 2,500 -Thirty foot 2721 Daso Red Rock 2750 - 2012 2,750 -Gordon 2029 - 2076 Forth Gand (30007 3,000 3020 - 3067 -Bayard 9 5/8 40#/MC-50 12 3/8 Intermediate Int. cag pl 2117 3,250 3453 - 3560 Avanten 3,500 3507 - 3054 3,750 4,000 4059 - 4383 4.250 · Ritoy 4442 - 4024 KOP @ 4,485' 4,500 4,750 5,000 -Denson 5103 - 5299 5.250 \$143 · \$555 5,500 5,750 6,000 6630 - 6702 ·Sonyea 6,250 -talddleson C792 . C031 6001 Genoseo 6020 6929 6959 6,500 denesed -Tully 6959 - 6932 6,750 -Hamilton 6002 - 7050 7053 Uarcellus top 201/2-110 8 1/2 Production Casing 5 1/2 Target Inside Marcellus 7085 7,000 Marcellus Bottom 7115 7,250 Est. TO 8 7,089 II TVD Land curve © 7,085 It TVD B,042 It MD 7,500

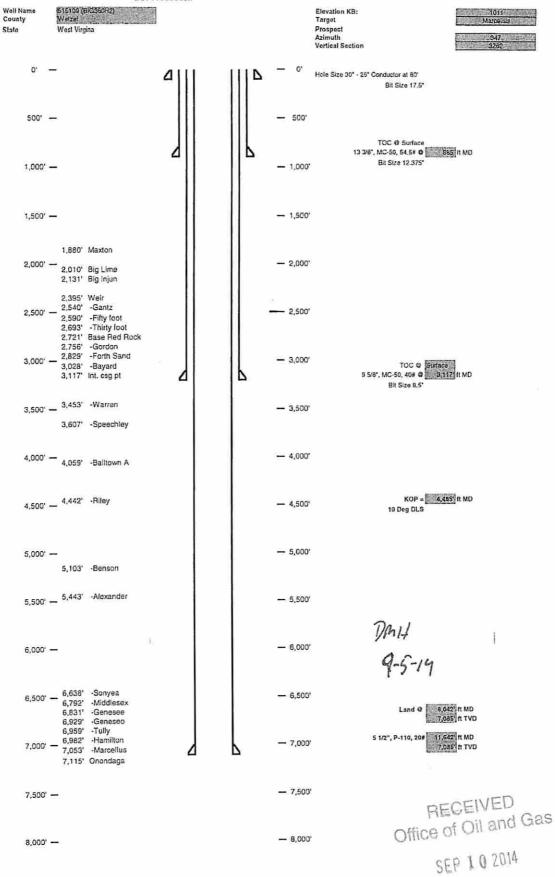
0,000 ft Lateral

Proposed Wall Work: Drill and complete a new horizental well in the Marcellus formation. The vertical drill to go down to an approximate depth of 4485'.

Then kick off the horizontal leg into the Marcallus using a slick water free.

7,750

Well Schematic EQT Production





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.

1

James 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.

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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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WW-9 (5/13)

Page	of
API No. 47 - 103	03031
Operator's Well No.	515109

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

Fluids/Cuttings Disposal & Reclamation Plan

	r laids/Outlings Disp	Josai & necianiau	on Plan		
	EQT Production Co.		OP Code		
Watershed (HUC10)	Richwood Run	Quadra	angle	Big Run 7.5'	
Elevation	998.0 County	Wetzel	_ District_	Grant	> <u></u> -
Do you anticipate using n	nore than 5,000 bbls of water	to complete the pro	posed well w	ork? Yes	x No
Will a pit be used ? Yes:	x No:				
If so please descr	be anticipated pit waste:	Flowbac	k water and	residual solids	
	er be used in the pit? Yes		lf so		60
Proposed Dispo	sal Method For Treated Pit W Land Application Underground Injection Reuse (at API Number Off Site Disposal (Su	Vastes: (UIC Permit Nur	nber 00	14, 8462, 4037	
	Other (Explain)
Will closed loop system b		oop system will remove	e drill cuttings f	rom the drilling	
fluid. The drill cuttings are t	hen prepared for transportation	to an off-site disposal	facility.		
Drilling medium anticipa	ted for this well? Air, freshwa	iter, oil based, etc.	Air is used to drill the	top halo sections of the	
			Manager and Services and Services	a. and Pilot hale sections	
			mud is used to doll to		, waith buses
If oil based, wh	nat type? Synthetic, petroleur	n, etc			
	lling medium? MILBAR. V		ol, Lime, Chloride	Salts Rate Filtration	on Control
Deflocculant, Lubricant, Deterge	ent, Defoaming, Walnut Shell, X-Cid	fe, SOLTEX Terra. Of th	e listed chemica	Is the following are	
generally used when drilling on a	air: lubricant, detergent, defoaming	Water based fluids use	the following ch	emicals: MILBAR.	\$
scosifer, alkalinity control, lime	, chloride salts, rate filtration contro	l, deflocculant, lubricant,	detergent, defor	aming, walnut sheil	
x-cide, SOLTEX terra				31	
Drill cuttings disposal me	thod? Leave in pit, landfill, re	moved offsite, etc.		Landfill	
 If left in pit and p 	an to solidify what medium will be u	ised? (Cement, Line, say	vdust)	n/a	
 Landfill or offsite 	name/permit number?	Se	e Attached L	ist	
on August 1, 2005, by the Office provisions of the permit are enfo- or regulation can lead to enforce I certify under penalty of to application form and all attachme the information, I believe that the	aw that I have personally examined ents thereto and that, based on my in Information is true, accurate, and country the possibility of fine or imprise	Department of Environment or condition of the general and am familiar with the inquiry of those individuation piete. I am aware that	ental Protection. eral permit and/o information subn is immediately re	I understand that or other applicable nitted on this appointable for obtain	law
Company Official (Typed N	Jame)	Victoria J.	Doorte		
Company Official Title		Permitting Super			
)
Subscribed and swoon before	ore me this 5	day of Novem	he p	, 20	14
				Notary Public	
My commission expires	_ 7-27-2018	1		STATE OF MICHORAN RL. Liberty My Commission of State of S	ERREIGHE MARKET VIRGINIA WEST VIRGINIA RET VIRGINIA L. Bumpardner 1, 80x 4 , WV 25124 Expires July 27, 2018

WW-9

*****		Operato	r's Well No.	51510
Proposed Revegetation Trea	tment: Acres Disturbed	±16.03 AC	Prevegetation pH	6.3
Lime3	Tons/acre or	to correct to pH	6.5	
Fertilize type				
Fertilizer Amount	1/3lbs	s/acre (500 lbs minimum)		
Mulch	2	Tons/acre		
		Seed Mixtures		
Tempor			Permanent	
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/acr	е
Alsike Clover	5	Alsike Clover		
Annual Rye				
Attach: Drawing(s) of road, location,p Photocopied section of invol				
Plan Approved by:				
Comments:				
Title: 01 + Gas	Trepechor		-14	
Field Reviewed? (-/-	Yes () No	

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EQT Production Water plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

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Site Specific Safety Plan

EQT BIG 360 Pad

<u>Jacksonburg</u>

Wetzel County, WV

	_515109	515110	515111	For Wells: 515112	515113		
[-		:					
EST	Production /	12	Date Pre	epared:	August 7, 2014 WV Öil and Ga	as Inspector	
Title	enmitti	ng Sipeni	sodo -		Oi' / /	Gar Inspe	No
Date	8.25-	14			9-5-/- Date Of	RECEIVE	D nd Gas
						SEP 102	014

