

#### 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

June 12, 2014

#### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-10302990, 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: 513832

Farm Name: KILCOYNE, JOHN W. & FLOREN

API Well Number: 47-10302990

Permit Type: Horizontal 6A Well

Date Issued: 06/12/2014

#### **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**

- 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.

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

4710302990

	MI CAMIDAIIV			1 103				
Well Operator: <u>EQT Production</u>			Operator ID	County	District		Quadrangle	
2) Operator's Well Number:		513832		Well Pad Nam	ne	ВІ	G176	
3) Farm Name/Surface Owner :		Kilcoyne		_Public Road A	ccess:		CR 15	
Elevation, current ground:	860.0	Eleva	tion, proposed p	oost-construction	ı:	860.0		
5) Well Type: (a) Gas	Oil	Un	derground Stor	age				
Other								_
(b) If Gas:	Shallow	•	Deep					
H	dorizontal	•						D
5) Existing Pad? Yes or No:	Yes						,	V1
7) Proposed Target Formation(s), I	Depth(s), Anti	icipated Thic 49' with the anti	knesses and As	ssociated Pressu be 52 feet and antic	ire(s): cipated targe	et pressur		
7) Proposed Target Formation(s), I Target formation is Middlesex	Depth(s), Anti	icipated Thic 49' with the anti	knesses and As	be 52 feet and antic	ire(s): cipated targe	et pressur		
7) Proposed Target Formation(s), I  Target formation is Middlesex  3) Proposed Total Vertical Depth:	at a depth of 67	49' with the anti	cipaled thickness to	6,749	rre(s): cipated targe	et pressur		
7) Proposed Target Formation(s), I  Target formation is Middlesex 3) Proposed Total Vertical Depth: 9) Formation at Total Vertical Dept	at a depth of 67	49' with the anti	cipaled thickness to	6,749 Middlesex	rre(s): cipated targe	et pressur		
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7) Proposed Target Formation(s), I  Target formation is Middlesex 3) Proposed Total Vertical Depth: 9) Formation at Total Vertical Dept 10) Proposed Total Measured Dept 11) Proposed Horizontal Leg Leng 12) Approximate Fresh Water Stra 13) Method to Determine Fresh Water 14) Approximate Saltwater Depths 15) Approximate Coal Seam Depth 16) Approximate Depth to Possible 17)Does proposed well location adjacent to an active mine?	at a depth of 67.  h: th th ta Depths: ater Depth: : ss: void (coal m contain coal	ag with the anti	1457, 109 ther):	6,749 Middlesex 12,818 4,833 65 & 135 By offset w 1459, 1390, 152 1,174, 239, 495,	5 ells 21 602 Non	e report	e of 4342 PSI	
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JUN 1 1 2014

WV Department of Environmental Protection ww - 6B (3/13)

#### CASING AND TUBING PROGRAM

4710302990

TYPE	Size	New	Grade	Weight per	FOOTAGE:	INTERVALS:	CEMENT:
		<u>or</u> Used		<u>f1.</u>	for Drilling	Left in Well	Fill- up (Cu.Ft.)
Conductor	26	New	MC-50	77	80	80	98 C.T.S.
Surface	20	New	J-55	94	300	300	381 C.T.S.
Surface	13 3/8	New	MC-50	54	825	825	722 C.T.S.
Coal							
Intermediate	9 5/8	New	MC-50	40	3,072	3,072	1,206 C.T.S.
Production	5 1/2	New	P-110	20	12,818	12,818	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run id run will be set 100' less than TO
Liners				<u> </u>			(C)

Dard 6-5-14

						<b>U</b> / I
TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	 26	30	0.312	•	Construction	1,18
Surface	20	24	0.438	2,110	1	1.21
Surface	13 3/8	17 1/2	0.38	2,480	1	1.21
Coal	_					
Intermediate	9 5/8	12 3/8	0.395	3,590	1	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing		<u> </u>			<u> </u>	
Liners		1 1				

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

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.

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WV Department of Environmental Procession

06/13/2014

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19) Describe proposed well work, including the drilling and plugging back of any	
Drill and complete a new horizontal well in the Middlesex formation. The vertical drill to go dow	m to all approximate depit of 3071. Then see
off the horizontal leg into the Middlesex using a slick water frac.	
20) Describe fracturing/stimulating methods in detail, including anticipated max	pressure and max rate:
Hydroniic tracturing is completed in accordance with state regulations using water recycled from pro	eviously fractured wells and obtained from
freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of che-	micals (including 15% Hydrochloric acid,
gelling agent, get breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as anticipated treating pressures are expected to average approximately 8500 psi, maximum anticipat	ed treating rates are expected to average
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,00	D barrels 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):	No additional disturbance
22) Area to be disturbed for well pad only, less access road (acres):	No additional disturbance
23) Describe centralizer placement for each casing string.	
• Surface: Bow spring centralizers - One at the shoe and one spaced every 500	)'
<ul> <li>Intermediate: Bow spring centralizers—One cent at the shoe and one spaced</li> <li>Production: One spaced every 1000' from KOP to Int csg shoe</li> </ul>	24617 330 .
21/00001120 411 001111111111111111111111111	ce (Type 1 Cement): 0-3% Calcium Chloride
Used to speed the setting of cement slurries.	rry to a thief zone
0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slu Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low tempera	sture 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.	
Tall (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 (Appr	oximately 30-45 minutes) rotating & reciprocating
one full joint until cultings diminish at surface. When cultings returning to surface diminis	h, continue to circulate an additional 5
minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is	s fill, bring compressors back on
and circulate hole clean. A constant rate of higher than expected cuttings volume likely i	ndicates washouts that will not clean up.
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating on	e 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.	
Production: Pump marker sweep with out plug to determine actual hole washout. Calculate a	
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Chec	k volume of cuttings coming across
the shakers every 15 minutes.	

\*Note: Attach additional sheets as needed.

DMH 6-5-14

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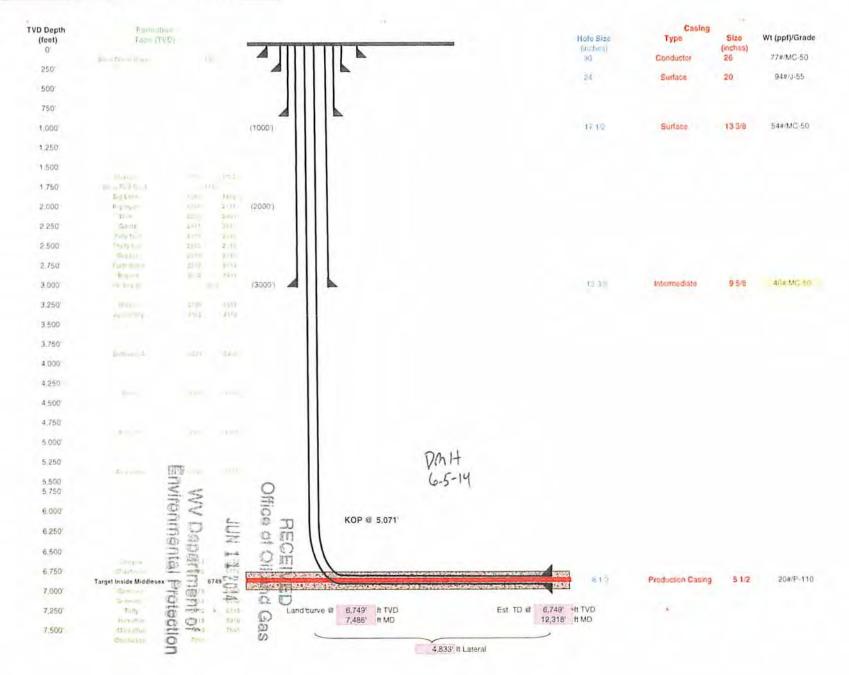
WV Department of Environmental Presental Presentation 06/13/2014

Elevation KB:

#### Well Schematic **EQT Production**

513832 (BIG176H15) Wetzel West Virgina Target
Prospect
Azimuth
Vertical Section County State Hole Size 30" - 26" Conductor at 80" Bit Size 24" 135 Fresh Water Base TOC @ Surface 20" 81.3#, MC-50, New @ 500 -Bit Size 17.5" TOC & Surface 13 3/8" MC-50, 54 5# @ 825" It MD 1 Bit Size 12.375\* - 1,000 1,000 -- 1,500 1,500 -1,706 Maxton 1,757 Base Red Flock 1,846 Big Lime 2,000 — 1,986 Big Injun 1,706' Maxton - 2,000 2,417 2,500 — 2,495 -Gantz -Fifty foot - 2,500 2.582' -Thirty foo 2,679' -Gordon -Thirty foot 2,745 -Forth Sand 2,882 -Bayard TOC & Surface 9.5/8", MC-50, 40# & 3,072" If MD - 3,000 3,000° - 3,072° Int. csg pt Δ Bit Size 8.5" 3,309 -Warren 3,500 - 3,462 -Speechley - 3,500 3,873 -Balltown A - 4,000° 4.000 --4,339' -Riley - 4,500 4,500" -5,000' - 4,985' -Benson - 5,000 Dm+ 5,325' -Alexander - 5,500 6-5-14 5,500' -- 6,000 6,000 -5.071 ft MD KOP = 10 Deg DLS 6,500 - 6,553 - 6,500 -Sonyea -Middlesex 7.486' ft MD Land @ 6,723 6,775 -Genesee -Geneseo -Tully 6,858 12.318 ft MD 5 1/2", P-110, 20#  $7.000' - \frac{6,892'}{6.915'}$ - 7,000 -Hamilton 7,010' -Marcellus 7,066' Onondaga - 7,500 7,500 -- 8,000 8,000 -

Big Run Azimuth 337
Wetzel West Virgina Vertical Section 4745



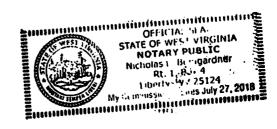
WW-9 (5/13)

Page	of	
API No. 47 - 1	03 -	0
Operator's Well N	0.	513832

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

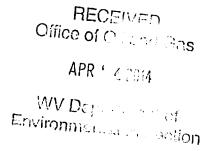
#### Fluids/Cuttings Disposal & Reclamation Plan

Operator Name	EQT Production Co.	OP Code	······
Watershed (HUC10)	North Fork Fishing Creek	Quadrangle	Big Run 7.5'
Elevation86	60.0 County	Wetzel District	Grant
Do you anticipate using mo	ore than 5,000 bbls of water to co	omplete the proposed well v	vork? Yes x No
Will a pit be used ? Yes: _	No:X		
If so please describ	oe anticipated pit waste:		
Will a synthetic line	or be used in the pit? Yes	No <u>X</u> If s	so, what ml.?60
Proposed Dispos	al Method For Treated Pit WasteLand ApplicationUnderground Injection (Reuse (at API NumberOff Site Disposal (Supply Other (Explain		)
Will closed loop system be fluid. The drill cuttings are t		ystem will remove drill cuttings n off-site disposal facility.	s from the drilling
Dullian madium astisiasi	ted for this well? Air, freshwater,	oil hased etc. Alcie year to chill	the top-hole sections at the wellbore,
Drilling medium anticipal	led for this well? All, heshwater,		iate, and Pilot hole sections, water based
			Il the curve and lateral.
If all become wh	at type? Synthetic, petroleum, et		The core and lateral.
Additives to be used in dri			ride Salts,Rate Filtration Control,
	ent, Defoaming, Walnut Sheil, X-Cide, St		
Deflocculant, Lubricant, Deterge	air: lubricant, detergent, defoaming. Wa	ter based fluids use the following	chemicals: MILBAR,
generally used when drainly on a	, chloride salts, rate filtration control, def	locculant, lubricant, detergent, de	loaming, walnut shell,
x-cide, SOLTEX terra	, chionas saits, rate interest save que		
	thod? Leave in pit, landfill, remov	ved offsite, etc.	Landfill
	lan to solidify what medium will be used		n/a
	e name/permit number?	See Attached	l List
on August 1, 2005, by the Office provisions of the permit are enforced as regulation can lead to enforce	and agree to the terms and conditions of Oil and Gas of the West Virginia Dep orceable by law. Violations of any term of ement action. law that I have personally examined and	partment of Environmental Protect condition of the general permit ar	ion. I undersland that the nd/or other applicable law
I certify under penalty of	ents thereto and that, based on my inqu	iry of those individuals immediatel	y responsible for obtaining
the information, I believe that the	e information is true, accurate, and compluding the possibility of line or imprison	olete. I am aware that there are sig	pnificant penalties for
Company Official Signatu	re	1/1/	
Company Official (Typed	Name)	Victoria J. Roark	
Company Official Title		Perrofiting Supervisor	
Subscriber and sworn be	fore me this 27 day	y of MARCH	, 20 14
b,			Notary Public
My commission expires	6/21/2018		06/13/2014



		Operato	r's Well No.	51383
Proposed Revegetation Tre	atment: Acres Disturb	ed No additional disturbance	Prevegetation	n pH5.9
Lime 3	e3 Tons/acre or to correct to pH		6.5	
Fertilize type				
Fertilizer Amount	1/3	lbs/acre (500 lbs minimum)		
Mulch	2	Tons/acre		
		Seed Mixtures		
Tempo Seed Type KY-31	orary Ibs/acre 40	Seed Type Orchard Grass	Permanent	lbs/acre 15
Alsike Clover	5	Alsike Clover		5
Annual Rye	15			
Attach: Drawing(s) of road, location Photocopied section of invo				
Plan Approved by:				
Comments:				
			-	
Title: 011 + 6<1	Inspects/	Date: <u>4-1-1</u>		
Field Reviewed? (		Yes (	) No	

06/13/2014



# 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.

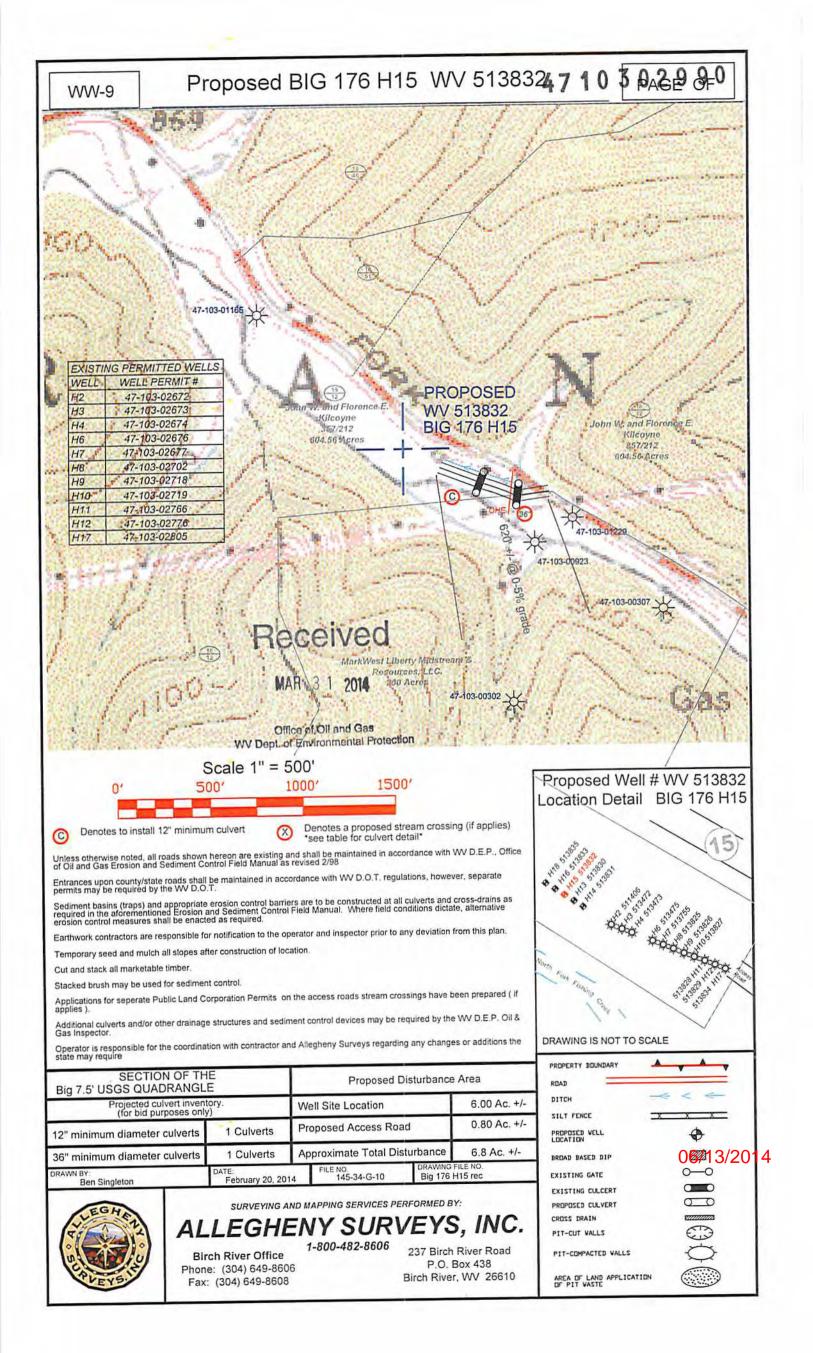
Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101 Facility Permit# PAR000029132

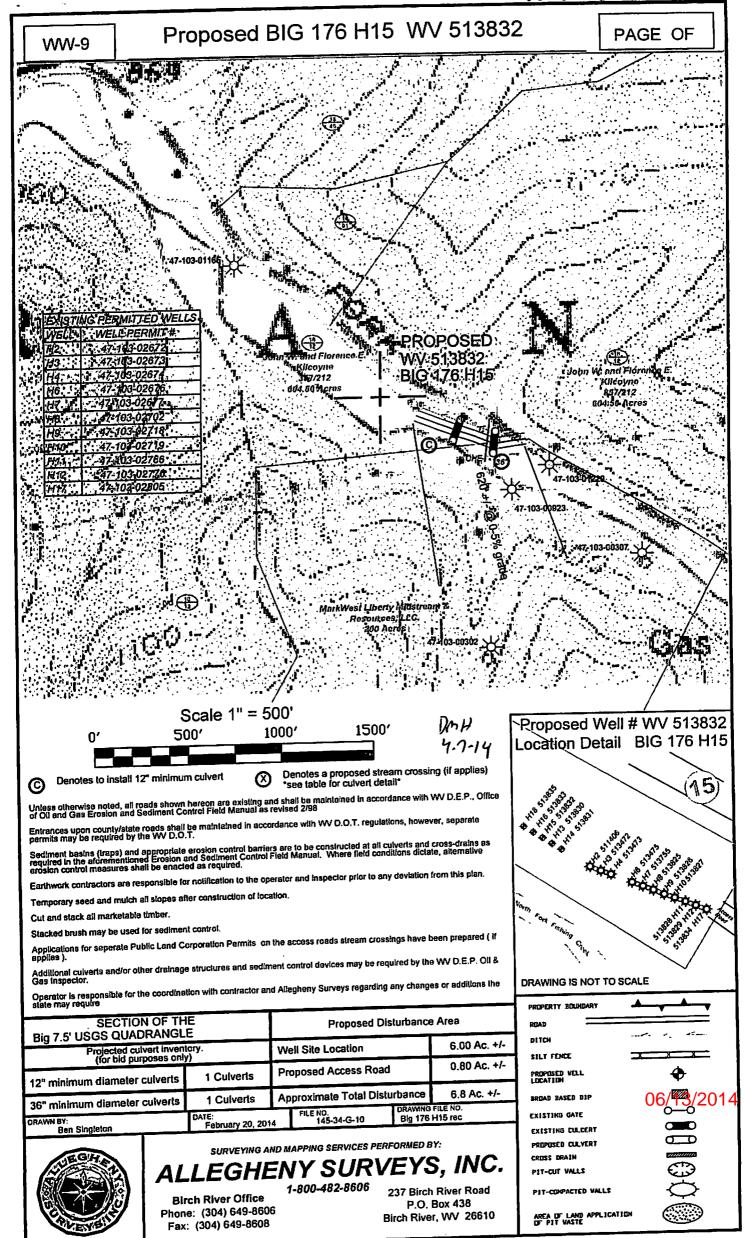
Dm H 4-7-11

FROSTED
Offer of Call and Gas

APR 3 4 2014

Marca pariment of Environmental Protection







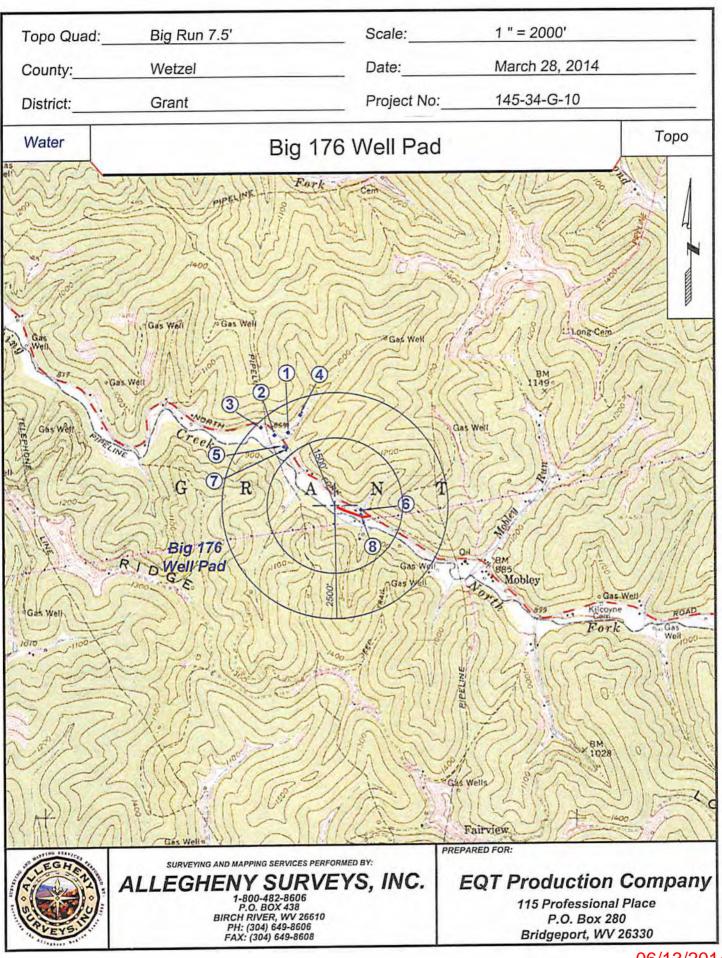
### Site Specific Safety Plan

### EQT BIG176 Pad

### <u>BIG RUN</u>

## Wetzel County, WV

513830513831 ·	For Wells: _513832513833	513835
Dennithe Spens Title 3-27-14 Date		February 25, 2014  WV Oil and Gas Inspector  Dil & Ger Inspector  Title  4-1-14  Date



06/13/2014



MAR 3 1 2014

