



west virginia department of environmental protection

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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Wednesday, August 30, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
120 PROFESSIONAL PLACE
BUILDING II
BRIDGEPORT, WV 26330

Re: Permit approval for WAL95H3
47-033-05892-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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- 0450.



James A. Martin
Chief

Operator's Well Number: WAL95H3
Farm Name: CONSOLIDATION COAL COMPANY
U.S. WELL NUMBER: 47-033-05892-00-00
Horizontal 6A / New Drill
Date Issued: 8/30/2017

Promoting a healthy environment.

09/01/2017

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 one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. 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.
10. 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.

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Production Company 306686 Harrison Eagle Wallace
Operator ID County District Quadrangle

2) Operator's Well Number: WAL95H3 Well Pad Name: WAL95

3) Farm Name/Surface Owner: Consolidation Coal Company Public Road Access: WV 20

4) Elevation, current ground: 1471 Elevation, proposed post-construction: 1428

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal _____

SDW
5/16/2017

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7467', 97', 2593 PSI

8) Proposed Total Vertical Depth: 7467'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 12433

11) Proposed Horizontal Leg Length: 4079

12) Approximate Fresh Water Strata Depths: 56, 159

13) Method to Determine Fresh Water Depths: By offset wells

14) Approximate Saltwater Depths: 1275

15) Approximate Coal Seam Depths: 423, 466, 511, 576, 1237

16) Approximate Depth to Possible Void (coal mine, karst, other): (423'- in un-mined portion of Harrison Co Mine)

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No _____

(a) If Yes, provide Mine Info: Name: Harrison County Mine
Depth: 411'
Seam: Pittsburgh
Owner: Murray Energy Corporation

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft./CTS)
Conductor	20	New	A-500	78.6	30	30	45 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	631	631	567 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2775	2775	1095 ft ³ / CTS
Production	5 1/2	New	P-110	20	12433	12433	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination	
Liners							

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TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance 2014-17	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance 2014-17	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 5356'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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 internal casing pressure is expected to be approximately 10000 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.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 57.77

22) Area to be disturbed for well pad only, less access road (acres): 41.07

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'.
- Production: One solid body cent spaced every joint from production casing shoe to KOP

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives
Surface (Type 1 Cement): 0-3% Calcium Chloride Used to speed the setting of cement slurries, .25% 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. 0.25% 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 H Cement): 0.2% CD-20 (dispersant makes cement easier to mix) .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss) .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation.
60 % Calcium Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Production: 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.

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*Note: Attach additional sheets as needed.

83-05892

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: WAL95
Harrison County, WV

2/7/17

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Harrison County, WV prior to hydraulic fracturing at the following EQT wells on WAL95 pad: WAL95H1, WAL95H2, WAL95H3, WAL95H4, WAL95H6, WAL95H7, WAL95H8, WAL95H9

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation. A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

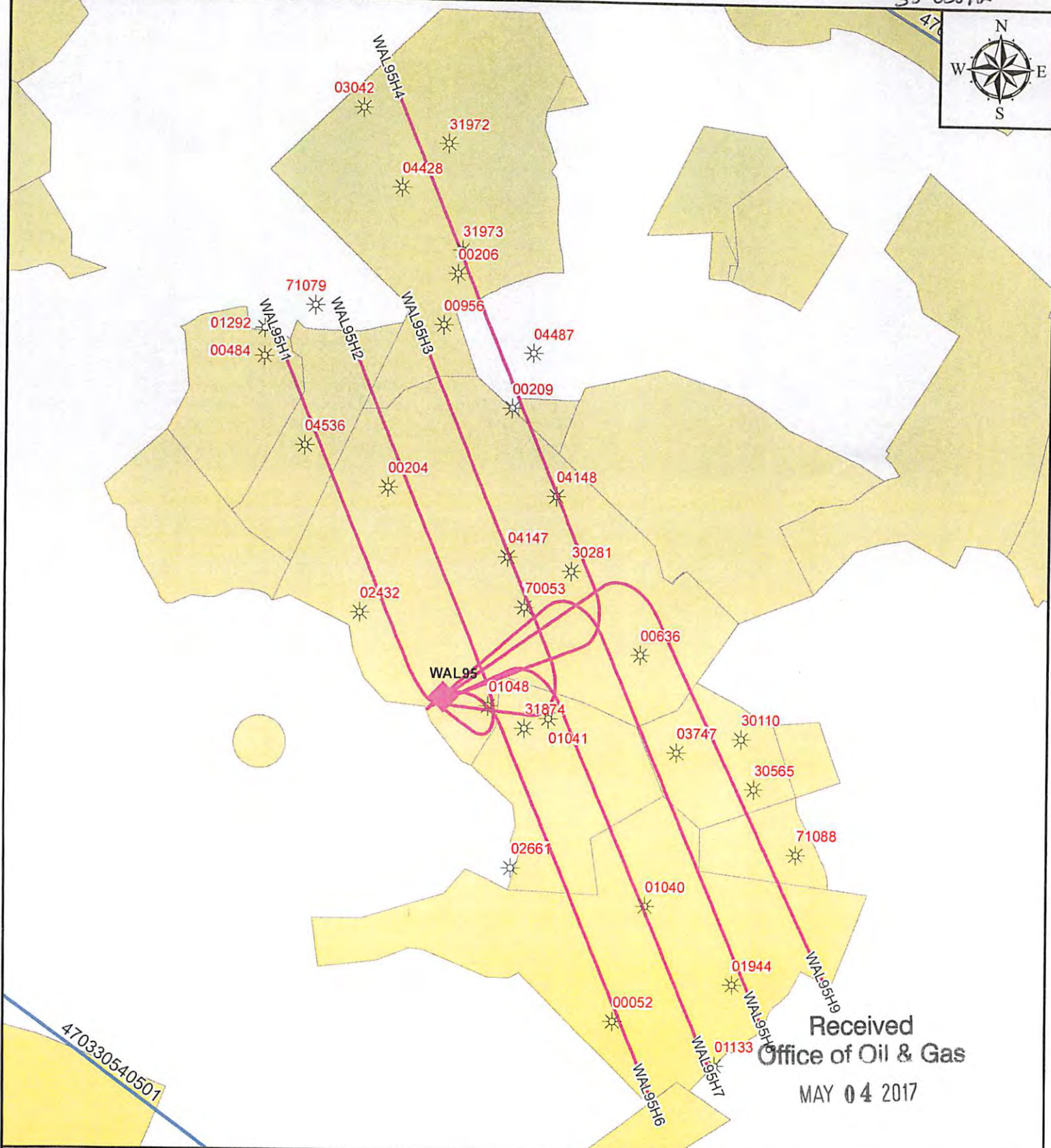
EQT will recommend to these operators at a minimum to:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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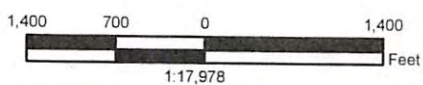
EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

WAL95 Pad

Vertical Offsets and
Foreign Laterals
within 500'

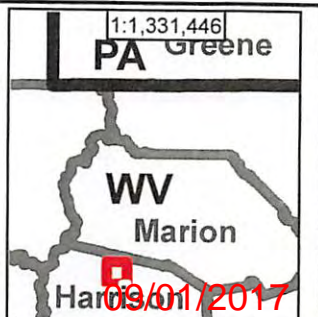
Created By: Ryan Mears Printed By: mearsR on 2/6/2017
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- Legend
- WAL95 Vertical Offsets
 - GENESEO
 - MARCELLUS
 - MIDDLESEX
 - POINT PLEASANT
 - UTICA
 - Prospect Wells



Disclaimer:

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.



UWI	ABAND_DATE	COMP_DATE	CURR_OPER	DATUM ELE	DATUM TYPE	FNL_STAT	LATITUDE	LONGITUDE	TD_FORM_NM	TOT_DEPTH	Permit
47033000520000		8/30/1937	EQT PRODUCTION COMPANY	1351	GR	GAS	39.4093	-80.3836	HAMPSHIRE		2244 00052
47033000520001		10/13/1939	EQT PRODUCTION COMPANY	1351	GR	GAS	39.4093	-80.3836	HAMPSHIRE		2750 00052
47033002040000		8/1/1958	EQT PRODUCTION COMPANY	1137	GR	GAS	39.4260	-80.3928	POCONO		1792 00204
47033002040001		10/3/1975	EQT PRODUCTION COMPANY	1137	GR	GAS-WO	39.4260	-80.3928	DEVONIAN /SD/		3554 00204
47033002060000		2/1/1959	XTO ENERGY INCORPORATED	1100	GR	GAS	39.4326	-80.3900	BIG INJUN /SD/		1620 00206
47033002090000		10/1/1959	EQT PRODUCTION COMPANY	1435	GR	GAS	39.4284	-80.3877	FIFTH SAND		2910 00209
47033004840000		9/1/1968	EQT PRODUCTION COMPANY	1172	GR	GAS	39.4300	-80.3978	BIG INJUN /SD/		1738 00484
47033006360000		7/29/1973	EQT PRODUCTION COMPANY	1138	GR	GAS	39.4207	-80.3825	BENSON /SD/		4713 00636
47033006360001		1/2/1974	EQT PRODUCTION COMPANY	1147	KB	GAS-WO	39.4207	-80.3825	DEVONIAN /SD/		4720 00636
47033009560000		7/15/1976	EQT PRODUCTION COMPANY	1087	GR	GAS	39.4310	-80.3905	DEVONIAN /SD/		3623 00956
47033010400000		6/3/1977	EQT PRODUCTION COMPANY	1107	KB	GAS	39.4129	-80.3823	DEVONIAN /SD/		4637 01040
47033010410000		6/8/1977	EQT PRODUCTION COMPANY	1237	KB	GAS	39.4187	-80.3862	DEVONIAN /SD/		4822 01041
47033010480000		5/20/1977	EQT PRODUCTION COMPANY	1327	GR	GAS	39.4191	-80.3887	DEVONIAN /SD/		3746 01048
47033011330000		1/7/1978	JACKSON FUEL CORPORATION	1247	KB	GAS	39.4079	-80.3794	DEVONIAN /SD/		3680 01133
47033012920000		5/26/1909	DOMINION TRANSMISSION	1155	GR	GAS	39.4309	-80.3978	HAMPSHIRE		2795 01292
47033019440000		10/30/1978	JACKSON FUEL CORPORATION	1092	KB	GAS	39.4104	-80.3787	DEVONIAN /SD/		3527 01944
47033024320000		10/7/1980	EQT PRODUCTION COMPANY	1437	KB	GAS	39.4220	-80.3939	DEVONIAN /SD/		3875 02432
47033026610000		9/20/1982	LINCOLN PROD	1232	KB	GAS	39.4141	-80.3877	DEVONIAN /SD/		4832 02661
47033030420000		11/16/1984	CONSOL GAS COMPANY	1375	KB	GAS	39.4378	-80.3938	DEVONIAN /SH/		4320 03042
47033037470000		9/14/1990	KRISCOTT INCORPORATED	1488	KB	GAS	39.4177	-80.3810	DEVONIAN /SD/		3950 03747
47033041470000		1/7/1997	EQT PRODUCTION COMPANY	1260	GR	GAS	39.4238	-80.3879	DEVONIAN /SD/		3675 04147
47033041480000		12/19/1996	EQT PRODUCTION COMPANY	1270	KB	GAS	39.4257	-80.3859	DEVONIAN /SD/		3825 04148
47033044280000		11/25/2003	LBJ ENERGY ASSOCIATES LLC	1223	GR	GAS	39.4353	-80.3923	BALLTOWN		3819 04428
47033044870000		7/24/2004	XTO ENERGY INCORPORATED	1280	GR	GAS	39.4302	-80.3869	BALLTOWN		3861 04487
47033045360000		12/17/2004	LBJ ENERGY ASSOCIATES LLC	1370	GR	GAS	39.4273	-80.3962	DEVONIAN		3886 04536
47033301100000	1/3/1932		HOPE NATURAL GAS	1253	GR	ABD-GW	39.4181	-80.3784	HAMPSHIRE		2637 30110
47033302810000	1/1/1935	1/20/1904	PITTSBURGH & W VA GAS	1081	GR	ABD-GW	39.4234	-80.3853	CHEMUNG		2808 30281
47033305650000	10/2/1940	9/11/1910	EAGLE GAS CORPORATION	1230	GR	ABD-GW	39.4165	-80.3778	HAMPSHIRE		2561 30565
47033318740000	5/21/1971		CONSOLIDATED GAS SUPPLY CORPORATION		GR	PSEUDO	39.4184	-80.3872	UNKNOWN		31874
47033319720000	9/2/1976		UNKNOWN		GR	PSEUDO	39.4367	-80.3904			31972
47033319730000	3/31/1976		UNKNOWN		GR	PSEUDO	39.4334	-80.3898			31973
47033700530000			UNKNOWN		GR	PSEUDO	39.4222	-80.3872			70053
47033710790000			HOPE NATURAL GAS		GR	UNKWN	39.4316	-80.3958			71079
47033710880000			UNKNOWN		GR	UNKWN	39.4145	-80.3761			71088

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UWI	Name	Depth Top	Base Depth
47033006360001	LITTLE LIME	1432	1447
47033006360001	BIG LIME	1470	1540
47033006360001	BIG INJUN /SD/	1540	1611
47033006360001	SQUAW /SD/	1650	1667
47033006360001	GANTZ /SD/	2095	2163
47033006360001	GORDON /SD/	2258	2420
47033006360001	FIFTY FOOT SD	2513	2527
47033006360001	BALLTOWN /SD/	3360	3454
47033006360001	BENSON /SD/	4432	4468
47033010480000	BALLTOWN /SD/	3608	3650
47033044280000	BIG LIME	1660	
47033044280000	BIG INJUN	1720	
47033044280000	GANTZ /SD/	2160	
47033044280000	FIFTY FOOT SD	2280	
47033044280000	GORDON	2560	
47033044280000	FIFTH SAND	2730	
47033044280000	ELIZABETH /SD/	3170	
47033045360000	BIG LIME	1740	1815
47033045360000	BIG INJUN	1815	
47033010400000	BALLTOWN /SD/	3247	
47033030420000	BIG LIME	1500	1560
47033030420000	BIG INJUN /SD/	1560	1650
47033030420000	BEREA	2035	2080
47033010410000	LITTLE LIME	1507	1523
47033010410000	BIG LIME	1553	1610
47033010410000	BIG INJUN /SD/	1610	1687
47033010410000	POCONO	1725	1744
47033010410000	FIFTY FOOT SD	2162	2237
47033010410000	THIRTY FOOT SD	2260	2285
47033010410000	GORDON STRAY /SD/	2310	
47033010410000	FOURTH SAND	2428	2491
47033010410000	SPEECHLEY	3174	3226
47033010410000	BALLTOWN /SD/	3423	3542
47033010410000	BRADFORD /SD/	3936	4056
47033010410000	RILEY /SD/	4325	4545
47033010410000	BENSON /SD/	4676	4683
47033010410000	GORDON /SD/		2419
47033037470000	LITTLE LIME	1680	1694
47033037470000	BIG LIME	1724	1800
47033037470000	BIG INJUN /SD/	1800	1858
47033037470000	FIFTH SAND	2757	2793
47033037470000	BALLTOWN /SD/	3608	3711
47033011330000	LITTLE LIME	1460	1470
47033011330000	BIG LIME	1485	1540
47033011330000	BIG INJUN /SD/	1540	1635
47033011330000	BALLTOWN /SD/	3340	3550

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47033041470000	LITTLE LIME	1485	1515
47033041470000	BIG LIME	1515	1601
47033041470000	BIG INJUN /SD/	1601	1696
47033041470000	SQUAW /SD/	1696	2224
47033041470000	FIFTY FOOT SD	2224	2290
47033041470000	THIRTY FOOT SD	2290	2558
47033041470000	FIFTH SAND	2558	3401
47033041470000	BALLTOWN /SD/	3401	
47033044870000	LITTLE LIME	1620	
47033044870000	BIG LIME	1654	
47033044870000	BIG INJUN	1726	
47033044870000	SPEECHLEY	3310	
47033044870000	BALLTOWN	3635	
47033019440000	BALLTOWN /SD/	3280	3425
47033019440000	BALLTOWN /SD/		3425
47033024320000	BIG LIME	1810	2240
47033024320000	BALLTOWN /SD/	3747	3836
47033041480000	LITTLE LIME	1555	1594
47033041480000	BIG LIME	1594	1672
47033041480000	BIG INJUN /SD/	1672	1766
47033041480000	SQUAW /SD/	1766	2296
47033041480000	FIFTY FOOT SD	2296	2360
47033041480000	THIRTY FOOT SD	2360	2636
47033041480000	FIFTH SAND	2636	3474
47033041480000	BALLTOWN /SD/	3474	
47033002040001	BALLTOWN /SD/	3390	3500
47033026610000	GREENBRIER /LM/	1492	1550
47033026610000	BIG INJUN /SD/	1550	1630
47033026610000	RILEY /SD/	4475	4600
47033026610000	BENSON /SD/	4600	4645
47033009560000	LITTLE LIME	1450	1464
47033009560000	PENCIL CAVE	1464	1483
47033009560000	BIG LIME	1483	1630
47033009560000	BALLTOWN /SD/	3264	3490

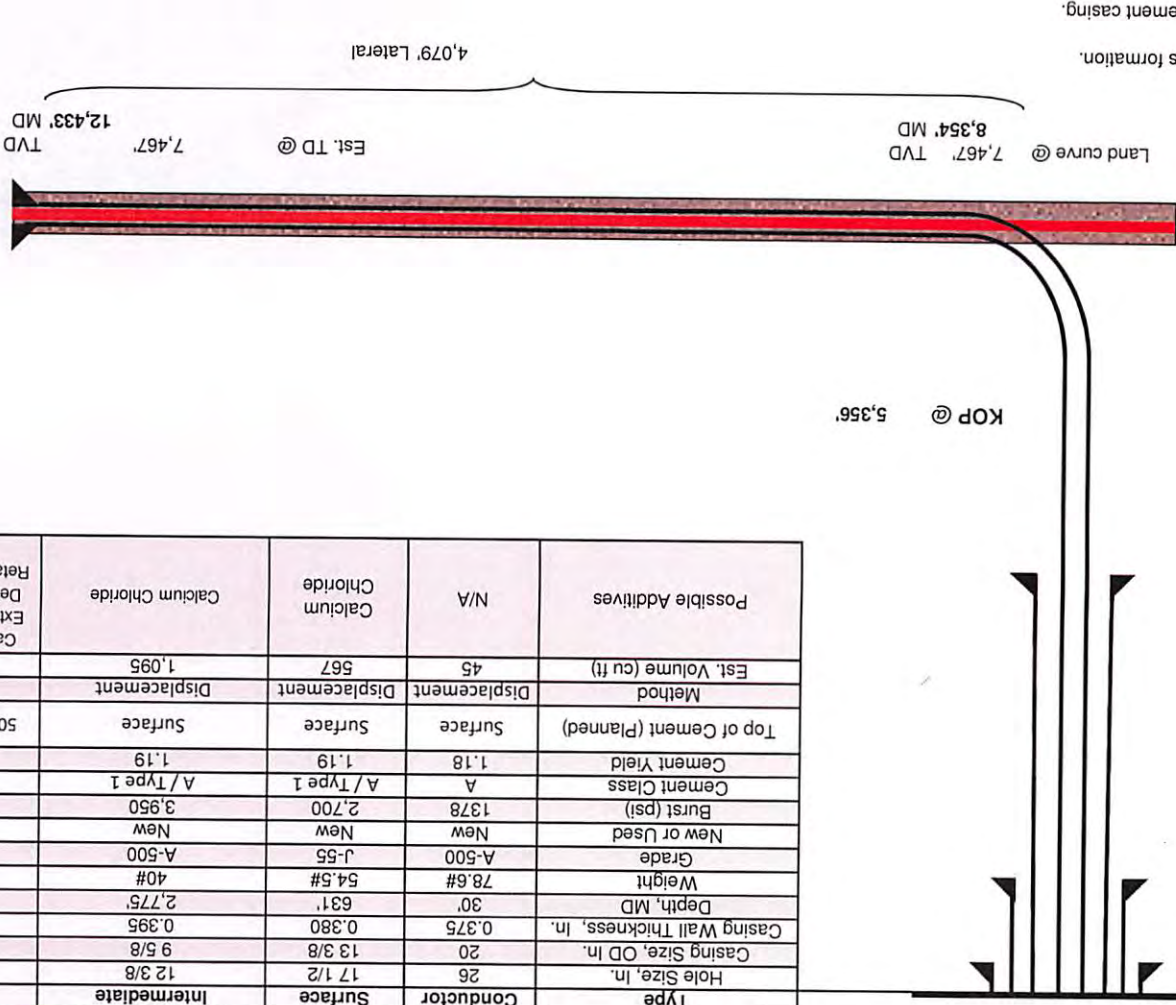
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Well
EQT Production
Wallace Quad
Harrison County, WV
WAL95H3

Azimuth 338.5
 Vertical Section 2775

Note: Diagram is not to scale

Formations	Top	Base	TVD
Conductor	30		
Base Fresh Water	159		
Surface Casing	631		
Maxton	1569	1609	
Big Lime	1725	1761	
Big Injun	1869	1975	
Weir	2147	2353	
Gantz	2406	2422	
Fifty foot	2457	2475	
Thirty foot	2492	2516	
Gordon	2543	2568	
Fourth Sand	2589	2651	
Bayard	2675	2725	
Intermediate Casing	2775		
Warren	3204	3232	
Speechley	3403	3449	
Base Red Rock	3706		
Balltown A	3647	4146	
Riley	4237	4266	
Benson	4899	4961	
Alexander	5445	5463	
Sonyea	6772	6984	
Middlesex	6984	7058	
Genesee	7058	7229	
Genesee	7229	7254	
Tully	7254	7309	
Hamilton	7309	7439	
Marcellus	7439	7536	
Production Casing	12433		MD
Onondaga	7536		



Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 5356'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

Casing and Cementing		Deepest Fresh Water: 159	
Type	Conductor	Surface	Intermediate
Hole Size, In.	26	17 1/2	12 3/8
Casing Size, OD In.	20	13 3/8	9 5/8
Casing Wall Thickness, In.	0.375	0.380	0.395
Casing Depth, MD	30'	631'	2,775'
Weight	78.6#	54.5#	40#
Grade	A-500	J-55	A-500
New or Used	New	New	New
Burst (psi)	1378	2,700	3,950
Cement Class	A	A / Type 1	A / Type 1
Cement Yield	1.18	1.19	1.19
Top of Cement (Planned)	Surface	Surface	Surface
Method	Displacement	Displacement	Displacement
Est. Volume (cu ft)	45	567	1,095
Possible Additives	N/A	Calcium Chloride	Calcium Chloride
			Retarder, Anti-Settling/Suspension Agent
			Defoamer, POZ, Bonding Agent, Extender, Dispersant, Viscosifier, Calcium Carbonate, Fluid Loss, Displacement
			2,327
			500' above top Producing Zone

Land curve @ 7,467' TVD
 8,354' MD
 Est. TD @ 7,467'
 12,433' MD
 TVD

Received
 Office of Oil & Gas
 MAY 04 2017



July 1, 2016

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 Well (WAL95)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 631' KB, 50' below a workable coal seam. We will set the 9-5/8" intermediate string at 2775' KB, 50' below the base of the Bayard formation.

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor

Enc.

Received
Office of Oil & Gas
MAY 04 2017

WW-9
(4/16)

API Number 47 - 033 - 05892
Operator's Well No. WAL95H3

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Robinson Run Quadrangle Wallace

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 0014, 8462, 4037)
- Reuse (at API Number Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached List

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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 thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Victoria J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

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Office of Oil & Gas
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Subscribed and sworn before me this 1 day of May, 2017

Rebecca L Wanstreet Notary Public

My commission expires 4-7-2020



WW-9 Attachment

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

- **Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.**

Additives to be used in drilling medium?

- **Air - biodegradable oil lubricant, detergent, defoaming, water. Water based mud – Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.**

**Received
Office of Oil & Gas
MAY 04 2017**

09/01/2017

WW-9
(4/16)

4703305892

API Number 47 - 033

Operator's Well No. WAL95H3

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Robinson Run Quadrangle Wallace

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 0014.8462.4037)
- Reuse (at API Number Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

*SDW
5/16/2017*

Will closed loop system be used? If so, describe: Yes. The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached List

RECEIVED
Office of Oil and Gas

MAY 22 2017

WV Department of
Environmental Protection

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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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 thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Victoria J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 1 day of May, 2017

Rebecca L. Wanstreet

Notary Public

My commission expires 4-7-2020



EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed 57.77 Prevegetation pH 6.1

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

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MAY 22 2017

WV Department of Environmental Protection

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible per regulation. Upgrade ETS per WV DEP ETS manual as needed

Title: OOG Inspector Date: 5/18/2017

Field Reviewed? (X) Yes () No

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

BROAD STREET ENERGY LLC

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

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

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

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

KING EXCAVATING CO.

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

Waste Management - Meadowfill Landfill

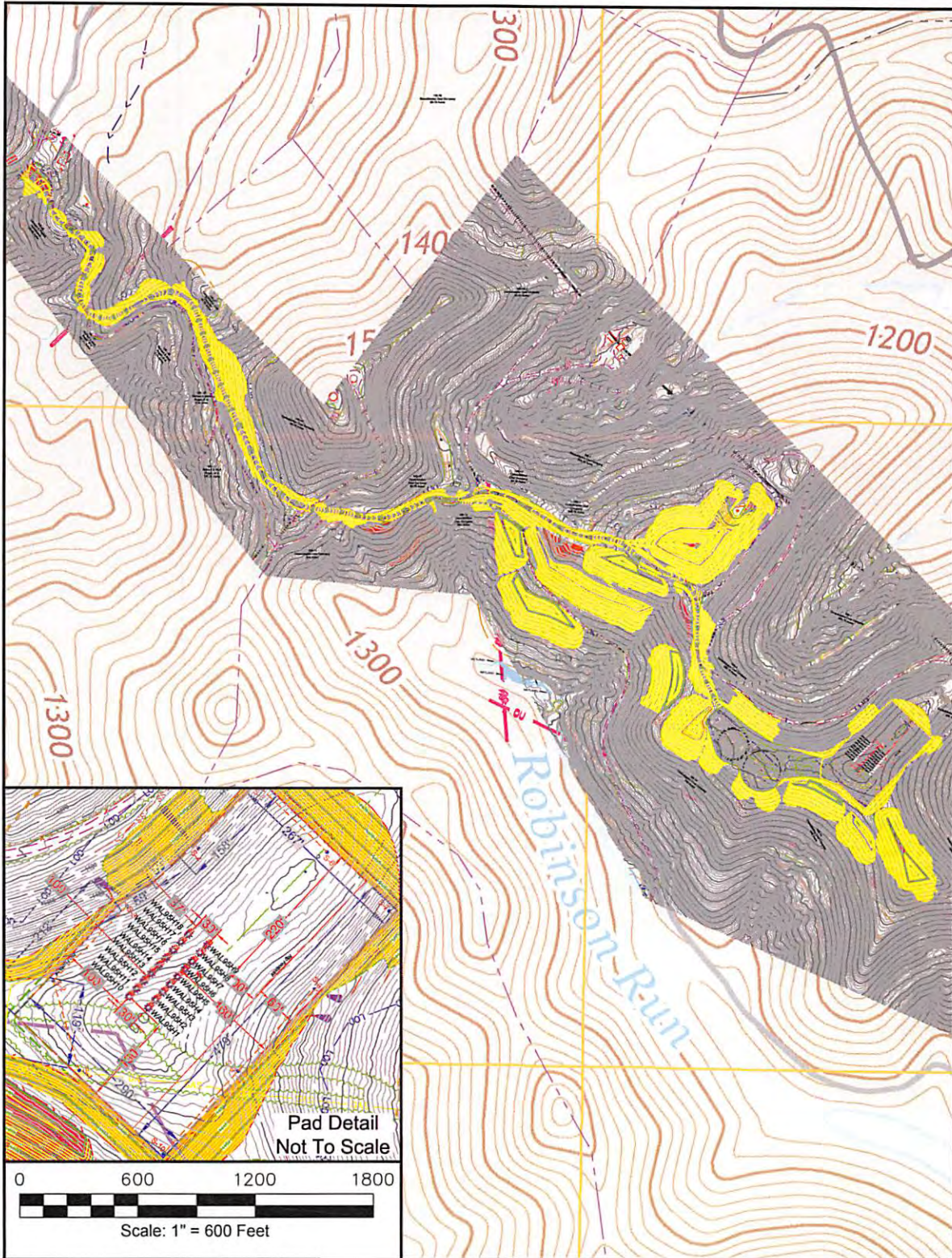
Rt. 2, Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98
Approval #100785WV

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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MAY 04 2017

09/01/2017



Wallace 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)		Well Site Location	See Site Plan
15" minimum diameter culverts	See Site Plan	Proposed Access Road	See Site Plan
24" minimum diameter culverts	See Site Plan	Approximate Total Disturbance	See Site Plan
DRAWN BY: Scott Brown	DATE: January 23, 2017	FILE NO. 149-15	DRAWING FILE NO. 149-15 WAL 95 Rec Plan

Note: SEE SITE PLAN OF WAL 95 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC.

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Office of Oil & Gas
MAY 04 2017



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-482-8606
Birch River Office
Phone: (304) 649-8606
Fax: (304) 649-8608
237 Birch River Road
P.O. Box 438
Birch River, WV 26610

09/01/2017



4703305892

Where energy meets innovation.™

Site Specific Safety Plan

EQT
WAL95 Pad

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MAY 22 2017

WV Department of
Environmental Protection

Shinnston Township

Harrison County, WV

For Wells:

WAL95H1 WAL95H2 WAL95H3 WAL95H4 WAL95H6 WAL95H7 WAL95H8

WAL95H9

SDew
5/16/2017

Date Prepared: December 29, 2016

[Signature]
EQT Production

WV Oil and Gas Inspector

Title

Title

Date

3-24-17

Date

09/01/2017

**WAL95H3
WAL 95
EQT Production Company**

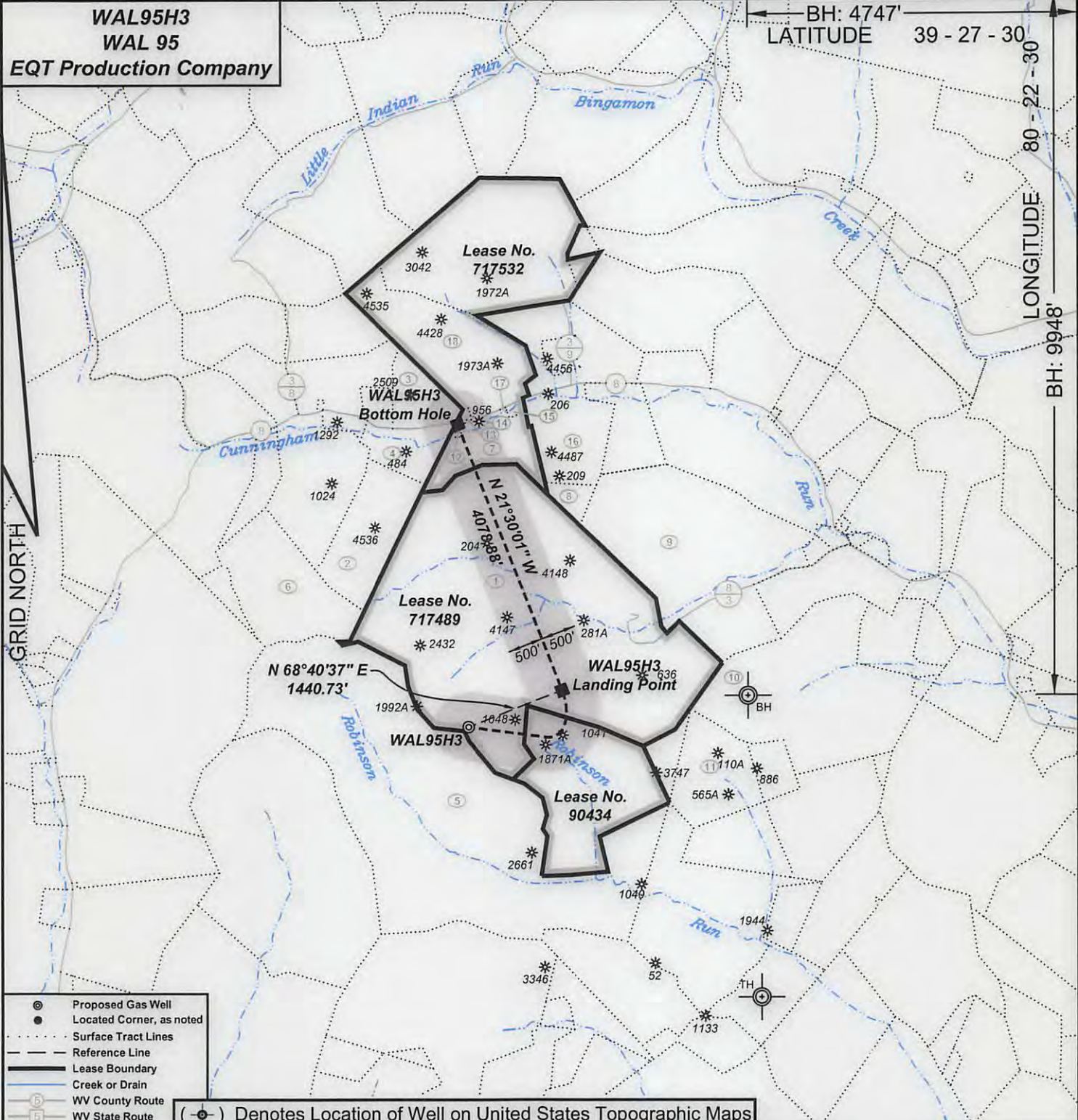
TH: 4553'

BH: 4747'
LATITUDE 39 - 27 - 30

LONGITUDE 80 - 22 - 30

TH: 14265'

GRID NORTH



- ⊙ Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- - - Reference Line
- Lease Boundary
- Creek or Drain
- Ⓟ WV County Route
- Ⓠ WV State Route

(⊙) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Dwayne A. Hall
P.S. 2089SU



SEAL

FILE NO: 149-36-E-15
DRAWING NO: WAL95H3
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: January 23 20 17
OPERATOR'S WELL NO.: WAL95H3
API WELL NO: H6A
47 - 33 - 05892
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: Existing 1476' Proposed 1428' WATERSHED Robinson Run QUADRANGLE: Wallace
DISTRICT: Eagle COUNTY: Harrison
SURFACE OWNER: Consolidation Coal Company ACREAGE: 306.15
ROYALTY OWNER: Judith C. Asel, et al. LEASE NO: 717489 ACREAGE: 305.00
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,467

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
Bridgeport, WV 26330 Bridgeport, WV 26330

09/01/2017

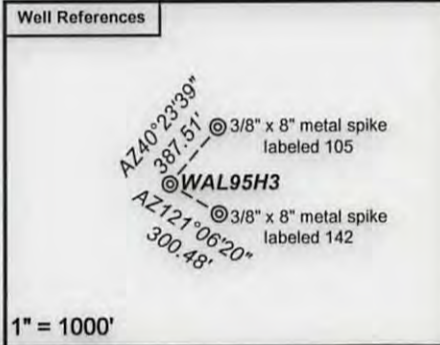
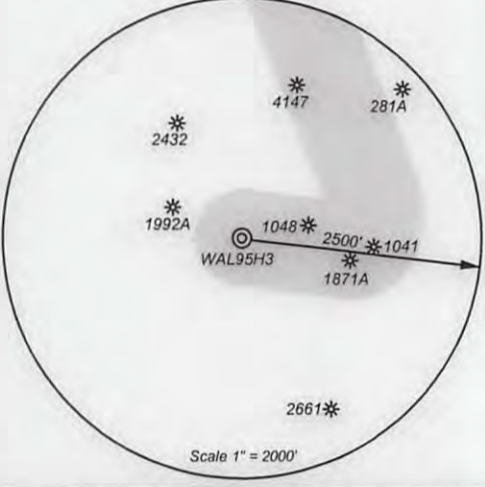
**WAL95H3
WAL 95
EQT Production Company**

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	166	1	Harrison	Eagle	Consolidation Coal Company	306.15
2	145	49.3	Harrison	Eagle	Consolidation Coal Company	37.61
3	145	35	Harrison	Eagle	John & Teresa Bush	17.22
4	145	49	Harrison	Eagle	David E. & Suzanne Swiger	14.87
5	166	13	Harrison	Eagle	Consolidation Coal Company	345.00
6	145	47	Harrison	Eagle	Consolidation Coal Company	50.78
7	146	33	Harrison	Eagle	Joseph & Jody Sheme	24.53
8	146	34	Harrison	Eagle	Consolidation Coal Company	5.80
9	146	36.1	Harrison	Eagle	Michael & Linda Wable	124.13
10	166	2	Harrison	Eagle	Carolyn Sloan	107.93
11	166	18	Harrison	Eagle	Consolidation Coal Company	41.50
12	146	32	Harrison	Eagle	Carl E. Barker Jr. & Kathy A. Barker	0.41
13	146	21.1	Harrison	Eagle	Samuel Gene Barker	0.54
14	146	21.2	Harrison	Eagle	Samuel Gene Barker	0.05
15	146	33.1	Harrison	Eagle	Joseph N. Sheme Jr. & Jody Sheme	1.33
16	146	22	Harrison	Eagle	Robert E. Cornell II & Patricia R. Cornell	69.20
17	146	33.2	Harrison	Eagle	Joseph N. Sheme Jr. & Jody Sheme	0.07
18	146	21	Harrison	Eagle	Alice Gwynn	60.91

Notes:
 WAL95H3 coordinates are
 NAD 27 N: 336,028.84 E: 1,748,251.26
 NAD 27 Lat: 39.419170 Long: -80.391114
 NAD 83 UTM N: 4,363,480.48 E: 552,428.35
 WAL95H3 Landing Point coordinates are
 NAD 27 N: 336,552.73 E: 1,749,593.36
 NAD 27 Lat: 39.420644 Long: -80.386382
 NAD 83 UTM N: 4,363,646.91 E: 552,834.59
 WAL95H3 Bottom Hole coordinates are
 NAD 27 N: 340,347.79 E: 1,748,098.44
 NAD 27 Lat: 39.431023 Long: -80.391807
 NAD 83 UTM N: 4,364,795.52 E: 552,359.87
 West Virginia Coordinate system of 1927 (North Zone)
 based upon Differential GPS Measurements.
 Plat orientation, corner and well ties are based upon
 the grid north meridian.
 Well location references are based upon the grid north
 meridian.
 UTM coordinates are NAD83, Zone 17, Meters.

WAL 95 **WAL95H9**Ⓞ
 WAL95H8Ⓞ
 WAL95H7Ⓞ
 WAL95H6Ⓞ
 WAL95H5Ⓞ
 WAL95H4Ⓞ
 WAL95H3Ⓞ
 WAL95H2Ⓞ
 WAL95H1Ⓞ

Lease No.	Acres	Owner
90434	71	Clarissa Fornash, et al.
717532	182.39	Elizabeth H. Cavallaro



- Ⓞ Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Dwayne A. Hall
 P.S. 2089SU



FILE NO: 149-36-E-15
 DRAWING NO: WAL95H3
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: January 23 20 17
 OPERATOR'S WELL NO.: WAL95H3
 API WELL NO: 47-33-05892
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Existing 1476' Proposed 1428' WATERSHED: Robinson Run QUADRANGLE: Wallace
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 SURFACE OWNER: Consolidation Coal Company ACREAGE: 306.15
 ROYALTY OWNER: Judith C. Asel, et al. LEASE NO: 717489 ACREAGE: 305.00
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,467

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
 Bridgeport, WV 26330 Bridgeport, WV 26330

09/01/2017

WW-6A1
(5/13)

Operator's Well No. WAL95H3

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Attached				

**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

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

Well Operator: EQT Production Company

By: Victoria J Roark

Its: Permitting Supervisor

WW-6A1 attachment

Operator's Well No.

WAL95H3

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>717489</u>	<u>Judith C. Asei, et al (current royalty owner)</u>			
	James T. Coffman, et ux (original lessor)	W.J. Rowland and Co.	✖	110/118
	W.J. Rowland and Co.	Shinnston Gas Company		112/533
	Shinnston Gas Company	Fairmont & Grafton Gas Company (Pittsburgh and West Virginia Gas Company)		148/103
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		714/159
	Equitable Gas Company	Carnegie Natural Gas Company		773/42
	Carnegie Natural Gas Co	Carnegie Production Company		1315/552
	Carnegie Production Company	Equitable Production - Eastern States, Inc		see attached
	Equitable Production-Eastern States, Inc.	EQT Production Company		59/854
	Wayne R. Cunningham Jr., et ux (original lessor)	Carnegie Natural Gas Company		891/331
	Carnegie Natural Gas Co	Carnegie Production Company		1315/552
	Carnegie Production Company	Equitable Production - Eastern States, Inc		see attached
	Equitable Production-Eastern States, Inc.	EQT Production Company		59/854
<u>717532</u>	<u>Elizabeth H. Cavallaro (current royalty owner)</u>		**	
	D.A. Cavallaro, et ux (original lessor)	Carnegie Natural Gas Company		815/101
	Carnegie Natural Gas Company	Carnegie Production Company		1315/552
	Carnegie Production Company	Equitable Production - Eastern States, Inc		see attached
	Equitable Production - Eastern States, Inc	EQT Production Company		59/854
<u>90434</u>	<u>Clarissa Fornash, et al (current royalty owner)</u>		**	
	Ralph W. McCarty, et al (original lessor)	Consolidated Gas Supply Corporation		998/337
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Company		1136/250
	Consolidated Gas Transmission Company	CNG Transmission Corporation		51796 name change
	CNG Transmission Corporation	UMC Petroleum Corporation		1230/1194
	UMC Petroleum Corporation	Ashland Exploration, Inc. (Blazer Energy Corp)		1263/494
	Blazer Energy Corp	Eastern States Oil & Gas, Inc.		58/93 name change
	Equitable Production - Eastern States, Inc	EQT Production Company		59/854 name change

** We will pay a minimum one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced, or marketed from the well.

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Office of Oil & Gas
MAY 04 2017

09/01/2017

PA. DEPT. OF STATE

MAY 04 2017

PAOS - 151998 C T Form 500

Office of Oil & Gas

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Carnegie Production Company
One Oxford Centre, Suite 3300, Pittsburgh, PA 15219-6401
Allegheny County

3. The name and the address of the registered office in this Commonwealth or name of its commercial registered office provider and the county of venue of each other domestic business corporation and qualified foreign business corporation which is a party to the plan of merger are as follows:

Number and Street City State Zip

The surviving corporation is a nonqualified foreign business corporation incorporated under the laws of _____ and the address of its principal office under the laws of such foreign jurisdiction is: _____

For a corporation represented by a commercial registered office provider, the county in (b) shall be deemed the county in which the corporation is located for venue and official publication purposes.

(b) c/o: CT Corporation System
Name of Commercial Registered Office Provider

Allegheny County
Number and Street City State Zip

* The surviving corporation is a qualified foreign business corporation incorporated under the laws of _____ and the (a) address of its current registered office in this Commonwealth or (b) name of its commercial registered office provider and the county of venue is (the Department is hereby authorized to correct the following information to conform to the records of the Department):

For a corporation represented by a commercial registered office provider, the county in (b) shall be deemed the county in which the corporation is located for venue and official publication purposes.

(b) c/o: _____
Name of Commercial Registered Office Provider

_____ County
Number and Street City State Zip

2. (Check and complete one of the following):
The surviving corporation is a domestic business corporation and the (a) address of its current registered office in this Commonwealth or (b) name of its commercial registered office provider and the county of venue is (the Department is hereby authorized to correct the following information to conform to the records of the Department):

1. The name of the corporation surviving the merger is: EQUITABLE PRODUCTION - EASTERN STATES, INC.
In compliance with the requirements of 15 Pa.C.S. § 1926 (relating to articles of merger or consolidation), the undersigned business corporations, desiring to effect a merger, hereby state that:

ARTICLES OF MERGER-DOMESTIC BUSINESS CORPORATION

DATE: 12-15-1926 (REVISED)

Secretary of the Corporation

[Signature]

Filed with the Department of State on

DEC 29 2008

Entity Number: 2719730

Microfilm Number:

200096 - 308

DEC 29 2000 2:21 PM FR EQT
200096 309

412 553 7781 TO 92815212

P.03

DSCB:15-1926 (Rev 90)-2

4. (Check, and if appropriate complete, one of the following):

The plan of merger shall be effective upon filing these Articles of Merger in the Department of State,

The plan of merger shall be effective on: December 31, 2000 at 12:15 a.m.
Date Hour

5. The manner in which the plan of merger was adopted by each domestic corporation is as follows:

Name of Corporation	Manner of Adoption
<u>Carnegie Production Company</u>	<u>Adopted by action of the board of directors of the corporation pursuant to 15 Pa. C. S. Section 1924(b)(2)</u>

6. (Strike out this paragraph if no foreign corporation is a party to the merger). The plan was authorized, adopted or approved, as the case may be, by the foreign business corporation (or each of the foreign business corporations) party to the plan in accordance with the laws of the jurisdiction in which it is incorporated.

7. (Check, and if appropriate complete, one of the following):

The plan of merger is set forth in full in Exhibit A attached hereto and made a part hereof.

Pursuant to 15 Pa.C.S. § 1901 (relating to omission of certain provisions from filed plans) the provisions, if any, of the plan of merger that amend or constitute the operative Articles of Incorporation of the surviving corporation as in effect subsequent to the effective date of the plan are set forth in full in Exhibit A attached hereto and made a part hereof. The full text of the plan of merger is on file at the principal place of business of the surviving corporation, the address of which is:

Number and Street City State Zip County

IN TESTIMONY WHEREOF, the undersigned corporation or each undersigned corporation has caused these Articles of Merger to be signed by a duly authorized officer thereof this 29th day of December, 2000.

Equitable Production - Eastern States, Inc.
(Name of Corporation)

BY: Johanna G. O'Laughlin
(Signature)

TITLE: VP and Corporate Secretary

Carnegie Production Company **Received**
(Name of Corporation)

BY: [Signature] **Office of Oil & Gas**
(Signature) **MAY 04 2017**

TITLE: VP

**AGREEMENT AND PLAN OF MERGER
BETWEEN
EQUITABLE PRODUCTION - EASTERN STATES, INC.
AND
CARNEGIE PRODUCTION COMPANY**

AGREEMENT AND PLAN OF MERGER, dated this 29th day of December, 2000, pursuant to Section 252 of the General Corporation Law of the State of Delaware and Section 1926 of the Pennsylvania Business Corporation Law of 1988 between Equitable Production - Eastern States, Inc., a Delaware corporation and Carnegie Production Company, a Pennsylvania corporation.

WHEREAS, the constituent corporations desire to merge into a single corporation.

NOW, THEREFORE, the corporations, parties to this Agreement, in consideration of the mutual covenants, agreements and provisions hereinafter contained and intending to be legally bound, do hereby prescribe the terms and conditions of said merger and mode of carrying the same into effect as follows:

FIRST: Effective December 31, 2000, Carnegie Production Company hereby merges into Equitable Production - Eastern States, Inc. and Equitable Production - Eastern States, Inc. shall be the surviving corporation.

SECOND: The Certificate of Incorporation of Equitable Production - Eastern States, Inc. as heretofore amended and is in effect on the date of the merger provided in this Agreement, shall continue in full force and effect as the Certificate of Incorporation of the corporation surviving this merger.

THIRD: The manner of converting the outstanding shares of the common stock of each of the constituent corporations into shares or other securities of the surviving corporation shall be as follows: Each share of common stock of the surviving corporation, Equitable Production - Eastern States, Inc., which is issued and outstanding on the effective date of this Agreement, shall remain issued and outstanding. Each share of common stock of the merged corporation, Carnegie Production Company, shall be cancelled.

FOURTH: The terms and conditions of the merger are as follows:

- (a) The by-laws of the surviving corporation as they shall exist on the effective date of this Agreement shall be and remain the by-laws of the surviving corporation until the same shall be altered, amended and repealed as therein provided.

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- (b) The directors and officers of the surviving corporation shall continue in office until the next annual meeting of stockholders and until their successors shall have been elected and qualified.
- (c) Upon the merger becoming effective, all the property, rights, privileges, franchises, patents, trademarks, licenses, registrations and other assets of every kind and description of the merged corporation shall be transferred to, vested in and devolved upon the surviving corporation without further act or deed and all property, rights, and every other interest of the surviving corporation and the merged corporation shall be effectively the property of the surviving corporations as they were of the surviving corporation and the merged corporation respectively. The merged corporation hereby agrees from time to time, as and when requested by the surviving corporation or by its successors or assigns, to execute and deliver or cause to be executed and delivered all such deeds and instruments and to take or cause to be taken such further or other action as the surviving corporation and may deem to be necessary or desirable in order to vest in and confirm to the surviving corporation title to and possession of any property of the merged corporation acquired or to be acquired by reason of or as a result of the merger herein provided for and otherwise to carry out the intent and purposes hereof and the proper officers and directors of the merged corporation and the proper officers and directors of the surviving corporation are fully authorized in the name of the merged corporation or otherwise to take any and all such action.

IN WITNESS WHEREOF, the parties to this agreement, pursuant to the approval and authority duly given by resolutions adopted by their respective Board of Directors and stockholders have caused these presents to be executed by the officers of each party hereto as the respective act, deed and agreement of said corporations on this 29th day of December 2000.

EQUITABLE PRODUCTION -
EASTERN STATES, INC.

By: *Johanna B O'Keefe*
VP and Corporate Secretary

CARNEGIE PRODUCTION COMPANY

By: *Henry C. Paul* Received
VP Office of Oil & Gas

MAY 04 2017



February 2, 2017

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

Re: WAL95 well pad, wells WAL95H1, WAL95H2, **WAL95H3**, WAL95H4, WAL95H6,
WAL95H7, WAL95H8, WAL95H9
Eagle District, Harrison County

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. 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.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

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

Date of Notice Certification: 5/2/17

API No. 47- 033 -
Operator's Well No. WAL95H3
Well Pad Name: WAL95

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>552428.35</u>
County:	<u>Harrison</u>		Northing:	<u>4363480.48</u>
District:	<u>Eagle</u>	Public Road Access:		<u>WV 20</u>
Quadrangle:	<u>Wallace</u>	Generally used farm name:		<u>Consolidation Coal Company</u>
Watershed:	<u>Robinson Run</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

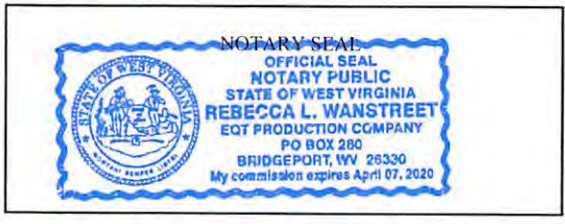
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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 service, the return receipt card or other postal receipt for certified mailing.

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Certification of Notice is hereby given:

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

Well Operator:	<u>EQT Production Company</u>	Address:	<u>115 Professional Place PO Box 280</u>
By:	<u>Victoria J Roark</u>		<u>Bridgeport WV 26330</u>
Its:	<u>Permitting Supervisor</u>	Facsimile:	<u>304-848-0041</u>
Telephone:	<u>304-848-0076</u>	Email:	<u>vroark@eqt.com</u>



Subscribed and sworn before me this 1 day of May 2017.
Rebecca L Wanstreet Notary Public
 My Commission Expires 4-7-2020

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.

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 5/2/17 **Date Permit Application Filed:** 5/2/17

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

- SURFACE OWNER(s)
Name: See Attached
Address: _____
Name: _____
Address: _____
- SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached
Address: _____
Name: _____
Address: _____
- SURFACE OWNER(s) (Impoundments or Pits)
Name: See Attached
Address: _____

- COAL OWNER OR LESSEE
Name: See Attached
Address: _____
- COAL OPERATOR
Name: _____
Address: _____
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

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*Please attach additional forms if necessary

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

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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

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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.**

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.

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09/01/2017

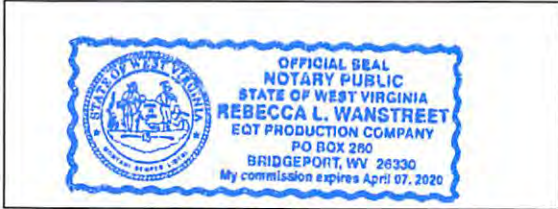
Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0076
Email: vroark@eqt.com

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041

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 deprivacyofficer@wv.gov.



[Handwritten Signature]

Subscribed and sworn before me this 1 day of May 2017.

Rebecca L. Wanstreet Notary Public

My Commission Expires 4-7-2020

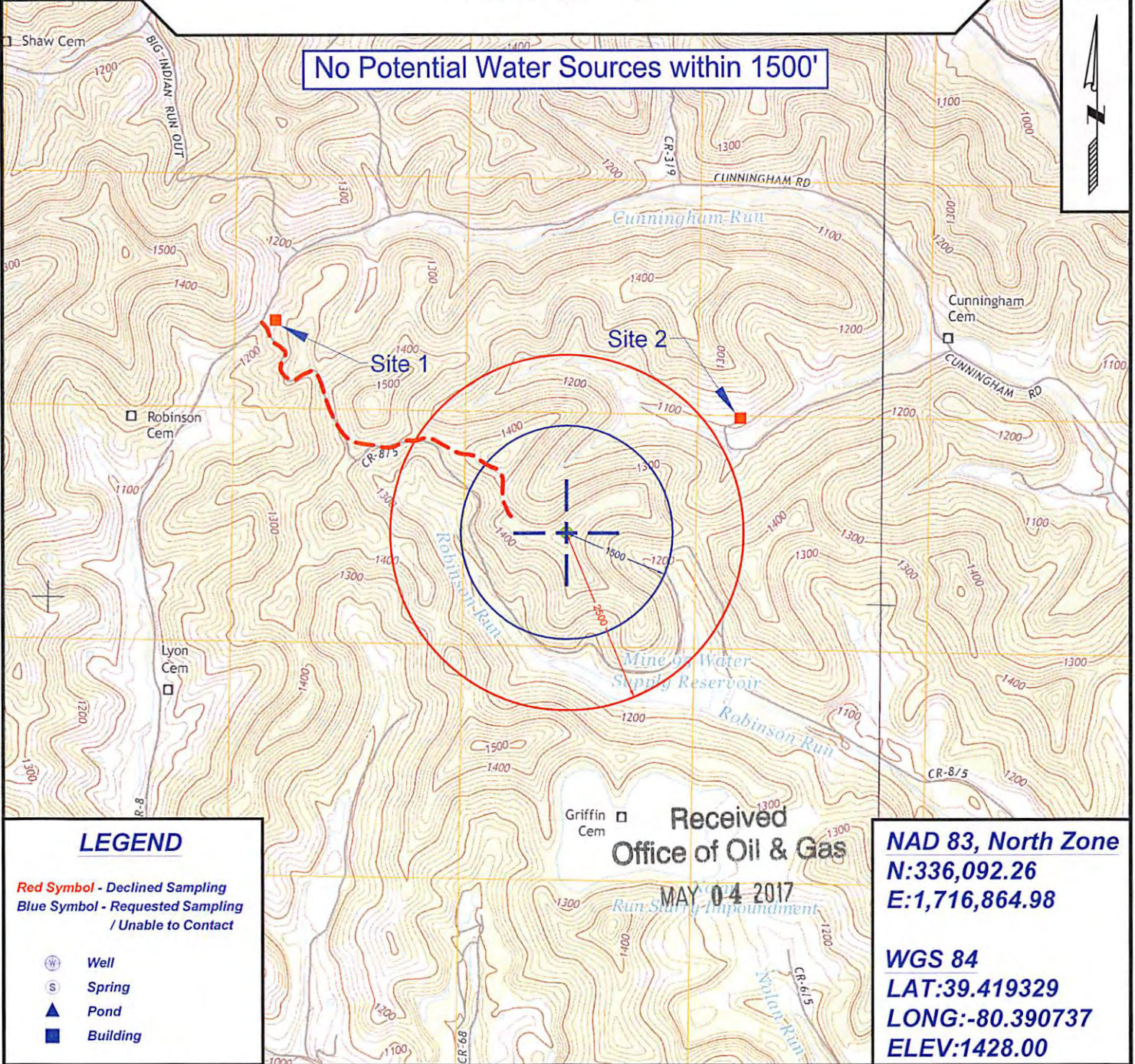
Received
Office of Oil & Gas
MAY 04 2017

Topo Quad: Wallace Scale: 1" = 2000'
 County: Harrison Date: August 5, 2016
 District: Eagle Project No: 149-36-E-15

Water

WAL 95 Pad

No Potential Water Sources within 1500'



LEGEND

Red Symbol - Declined Sampling
 Blue Symbol - Requested Sampling / Unable to Contact

- Well
- Spring
- Pond
- Building

Received
 Office of Oil & Gas

MAY 04 2017

NAD 83, North Zone
 N:336,092.26
 E:1,716,864.98

WGS 84
 LAT:39.419329
 LONG:-80.390737
 ELEV:1428.00



SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

Surface Owners:

Consolidation Coal Co.
 c/o Murray American Energy Corp.
 1 Bridge Street
 Monongah WV 26554
 Attn: Troy Freels

Consolidation Coal Co.
 c/o Murray American Energy Corp.
 46226 National Road
 St. Clairsville OH 43950
 Attn: Alex O'Neill

7016 3560 0000 4644 1162

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Total P \$

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Street #

City, St

PS Form 3800, October 2012

Postmark
 BRIDGEPORT WV
 MAY 03 2013

Consolidation Coal Co. (OH)
 c/o Murray Energy Corp.
 46226 National Road
 St. Clairsville OH 43950
 Attn: Alex O'Neill
 W/AL95 Permit App and Planned Op

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 c/o Murray Energy Corp.
 1 Bridge Street
 Monongah WV 26554
 Attn: Troy Freels
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Surface Owners (road or other disturbance):

Consolidation Coal Co.
c/o Murray American Energy Corp.
1 Bridge Street
Monongah WV 26554
Attn: Troy Freels

Consolidation Coal Co.
c/o Murray American Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill

Leonard O Harberbosch
1790 Cunningham Run
Lumberport WV 26386

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Street \$

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BRIDGEPORT, WV
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MAY 03 2018
330-USPS

Consolidation Coal Co. (WV)
c/o Murray Energy Corp.
1 Bridge Street
Monongah WV 26554
Attn: Troy Freels
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City, St \$

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Consolidation Coal Co. (OH)
c/o Murray Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill
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Adult Signature Required \$

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City, State \$

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Leonard O Harberbosch
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Lumberport WV 26386
WAL95 Permit App and Planned Op.

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Surface Owners (Pits or impoundments):

Consolidation Coal Co.
 c/o Murray American Energy Corp.
 1 Bridge Street
 Monongah WV 26554
 Attn: Troy Freels

Consolidation Coal Co.
 c/o Murray American Energy Corp.
 46226 National Road
 St. Clairsville OH 43950
 Attn: Alex O'Neill

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
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Consolidation Coal Co. (WV)
 c/o Murray Energy Corp.
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Consolidation Coal Co. (OH)
 c/o Murray Energy Corp.
 46226 National Road
 St. Clairsville OH 43950
 Attn: Alex O'Neill
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330-11SPS

Instructions

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Received
 Office of Oil & Gas
 MAY 04 2017

33-05872

Coal Owner

Consolidation Coal Co.
c/o Murray American Energy Corp.
1 Bridge Street
Monongah WV 26554
Attn: Troy Freels

Consolidation Coal Co.
c/o Murray American Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill

Consol Mining Co
Engineers Operations Support Dept. Coal
CNX Center
1000 Consol Energy Drive
Canonsburg PA 15317-6506
Attn: Casey Saunders

CNX Gas Company
Engineers Operations Support Dept. Coal
CNX Center
1000 Consol Energy Drive
Canonsburg PA 15317-6506
Attn: Casey Saunders

Wayne Cunningham Jr.
4747 Cunningham Run Road
Shinnston WV 26431

Judith C Asel
23 Roosevelt St.
Shinnston WV 26431

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Total P
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Sent To
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Street
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City, St
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BRIDGEPORT MO
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MAY 03 2018
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Consolidation Coal Co. (WV)
c/o Murray Energy Corp.
1 Bridge Street
Monongah WV 26554
Attn: Troy Freels
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City, St
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Consolidation Coal Co. (OH)
c/o Murray Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill
WAL95 Permit App and Planned Op.

Instructions

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\$ _____

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\$ _____

Street and
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City, State,
\$ _____

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BRIDGEPORT MO
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MAY 03 2018
330-115PS

Consol Mining Co
Engineers Operations Support Dept. Coal
CNX Center
1000 Consol Energy Drive
Canonsburg PA 15317-6506
Attn: Casey Saunders
WAL95 Permit App

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Postage
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Total Postage and Fees
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Sent To
\$ _____

Street and
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City, State,
\$ _____

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BRIDGEPORT MO
Postmark Here
MAY 03 2018
330-USPS

CNX Gas Company
Engineers Operations Support Dept. Coal
CNX Center
1000 Consol Energy Drive
Canonsburg PA 15317-6506
Attn: Casey Saunders
WAL95 Permit App

Received
Office of Oil & Gas

Instructions

MAY 04 2017

09/01/2017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry.

Date of Notice: 6/9/2015

Date of Planned Entry: 6/17/2015

Delivery method pursuant to West Virginia Code § 22-6A-10(a):

PERSONAL SERVICE CERTIFIED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(S)

Name: Murray American Energy
Address: Attn: Troy Freels
1 Bridge Street, Monongah, WV 26554

COAL OWNER(S) OR LESSEE(S)

Name: Murray American Energy
Address: Attn: Troy Freels
1 Bridge Street, Monongah, WV 26554

MINERAL OWNER(S)

Name: _____
Address: _____

COAL OWNER(S) OR LESSEE(S)

Name: Murray American Energy
Address: Attn: Alex O'Neil
46226 National Rd., St. Clairsville, OH 43950

*Please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.420636/-80.393775 & 39.419261/-80.390606</u>
County: <u>Harrison</u>	Public Road Access: <u>CR8/5</u>
Dist/Map/Par: <u>D9/Map 166/Parcel 1</u>	Watershed: <u>Tygart Valley</u>
Quadrangle: <u>Wallace</u>	Generally Used Farm Name: <u>Coffman</u>

Copies of the state Erosion and Sediment Control Manual and the statues and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 304-848-0099
Facsimile: 304-848-0040
Email: eqtlandentrynotice@eqt.com

Address: 115 Professional Place, Bridgeport, WV 26330
EQT Representative: Kathy Kugel

Signature: *Kathy Kugel*
Received
Office of Oil & Gas

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as part of 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

09/01/2017

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 5/2/17 Date Permit Application Filed: 5/2/17

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

HAND
DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: see attached
Address: _____

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>WV</u>	UTM NAD 83	Easting:	<u>552428.35</u>
County:	<u>Harrison</u>		Northing:	<u>4363480.48</u>
District:	<u>Eagle</u>	Public Road Access:	<u>WV 20</u>	
Quadrangle:	<u>Wallace</u>	Generally used farm name:	<u>Consolidation Coal Company</u>	
Watershed:	<u>Robinson Run</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: EQT Production Company
Telephone: 304-848-0076
Email: vroark@eqt.com

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

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

Received
Office of Oil & Gas
MAY 04 2017

~~33-0582~~
33-05892

Surface Owners:

Consolidation Coal Co.
c/o Murray American Energy Corp.
1 Bridge Street
Monongah WV 26554
Attn: Troy Freels

Consolidation Coal Co.
c/o Murray American Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage
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Total P
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Street
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City, St
\$

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Postmark
BRIDGEPORT WV
MAY 03 2013

Consolidation Coal Co. (OH)
c/o Murray Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill
WAL95 Permit App and Planned Op

Instructions

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1 Bridge Street
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Received
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MAY 04 2017

33-058 92

Surface Owners (road or other disturbance):

Consolidation Coal Co.
c/o Murray American Energy Corp.
1 Bridge Street
Monongah WV 26554
Attn: Troy Freels

Consolidation Coal Co.
c/o Murray American Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill

Leonard O Harberbosch
1790 Cunningham Run
Lumberport WV 26386

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Adult Signature Required \$

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City, St \$

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BRIDGEPORT, WV
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MAY 03 2013

Consolidation Coal Co. (WV)
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Monongah WV 26554
Attn: Troy Freels
WAL95 Permit App and Planned Op.

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St. Clairsville OH 43950
Attn: Alex O'Neill
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Adult Signature Required \$

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Leonard O Harberbosch
1790 Cunningham Run
Lumberport WV 26386
WAL95 Permit App and Planned Op.

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MAY 04 2017

09/01/2017

Surface Owners (Pits or impoundments):

Consolidation Coal Co.
c/o Murray American Energy Corp.
1 Bridge Street
Monongah WV 26554
Attn: Troy Freels

Consolidation Coal Co.
c/o Murray American Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill

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Street	
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MAY 03 2013
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RW

Consolidation Coal Co. (WV)
c/o Murray Energy Corp.
1 Bridge Street
Monongah WV 26554
Attn: Troy Freels
WAL95 Permit App and Planned Op.

Instructions

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City, St	
PS Form	

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MAY 03 2013
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RW

Consolidation Coal Co. (OH)
c/o Murray Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill
WAL95 Permit App and Planned Op.

Instructions

Received
Office of Oil & Gas
MAY 04 2017

33-05892



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Jim Justice
Governor

Thomas J. Smith, P. E.
Secretary of Transportation/
Commissioner of Highways

March 16, 2017

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the WAL 95 Pad Site, Harrison County

WAL95H1	WAL95H2	WAL95H3 33-05892	WAL95H4
WAL95H5	WAL95H6	WAL95H7	WAL95H8
WAL95H9	WAL95H10	WAL95H11	WAL95H12
WAL95H13	WAL95H14	WAL95H15	WAL95H16
WAL95H17	WAL95H18		

Dear Mr. Martin,

This well site will be accessed from Permit # 04-2017-0147 issued to EQT Production Company for access to the State Road. The well site is located off of Harrison County Route 8 SLS.

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

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-4, File

Received
Office of Oil & Gas
MAY 04 2017

33-05892

Anticipated Frac Additives
Chemical Names and CAS numbers

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

Received
Office of Oil & Gas
MAY 04 2017

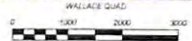
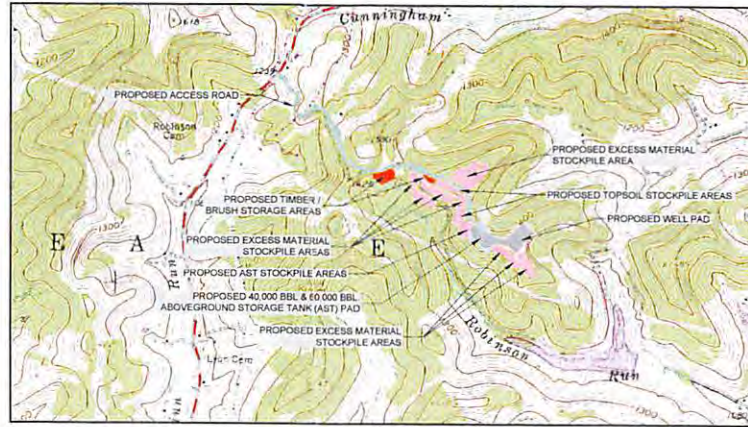
09/01/2017

WAL 95 WELL PAD FINAL SITE DESIGN



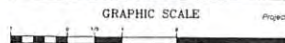
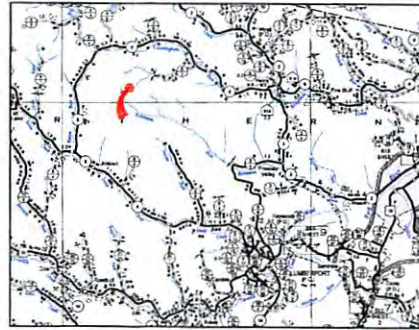
WELL LEGEND

WAL 95 H1 - LAT 39 419156 / LONG -80 390598
WAL 95 H2 - LAT 39 419226 / LONG -80 390562
WAL 95 H3 - LAT 39 419258 / LONG -80 390626
WAL 95 H4 - LAT 39 419286 / LONG -80 390559
WAL 95 H5 - LAT 39 419316 / LONG -80 390653
WAL 95 H6 - LAT 39 419346 / LONG -80 390816
WAL 95 H7 - LAT 39 419376 / LONG -80 390780
WAL 95 H8 - LAT 39 419409 / LONG -80 390742
WAL 95 H9 - LAT 39 419439 / LONG -80 390705
WAL 95 H10 - LAT 39 419237 / LONG -80 391094
WAL 95 H11 - LAT 39 419267 / LONG -80 391057
WAL 95 H12 - LAT 39 419297 / LONG -80 391021
WAL 95 H13 - LAT 39 419327 / LONG -80 390985
WAL 95 H14 - LAT 39 419357 / LONG -80 390948
WAL 95 H15 - LAT 39 419387 / LONG -80 390912
WAL 95 H16 - LAT 39 419417 / LONG -80 390876
WAL 95 H17 - LAT 39 419451 / LONG -80 390837
WAL 95 H18 - LAT 39 419481 / LONG -80 390801



SITE LOCATIONS
WGS 84 (WY NORTH ZONE)

DESCRIPTION	EASTING	NORTHING
Proposed Well Pad	19 419 29	80 390 77
Proposed 40,000 BBL AST	19 419 59	80 391 07
Proposed 60,000 BBL AST	19 419 51	80 391 17
Proposed Access Road (24' WIDE)	19 419 19	80 390 99



West Virginia Coordinate System of 1983
State Plane Gnd North
All height and/or distance shown herein
is based on data received from EQT
Production Company

AFFECTED PROPERTIES

<p>TM 18 PCL 48 LEONARD & PATRICIA HABERBUGH 12.8 ACRES SITE DISTURBANCE MAIN ACCESS ROAD AREA + 13 ACRES TIMBER REMOVAL + 1.81 ACRES</p> <p>TM 18 PCL 47 CONSOLIDATION EQUAL COMPANY 80.78 ACRES SITE DISTURBANCE MAIN ACCESS ROAD AREA + 7.38 ACRES EXCESS MATERIAL STOCKPILE AREA + 0.19 ACRES TIMBER REMOVAL + 5.81 ACRES</p>	<p>TM 18 PCL 13 CONSOLIDATION EQUAL COMPANY 27.8 ACRES SITE DISTURBANCE MAIN ACCESS ROAD AREA + 1.87 ACRES ABOVEGROUND STORAGE TANKS (AST) PAD + 3.86 ACRES WELL PAD + 1.31 ACRES AST PAD STOCKPILE AREA + 1.59 ACRES EXCESS MATERIAL STOCKPILE AREA + 13.10 ACRES TOPSOIL STOCKPILE AREA + 3.34 ACRES TIMBER (BRUSH) STORAGE AREAS + 2.23 ACRES TIMBER REMOVAL + 31.58 ACRES</p> <p>TM 18 PCL 1 CONSOLIDATION EQUAL COMPANY 308.18 ACRES SITE DISTURBANCE MAIN ACCESS ROAD AREA + 2.84 ACRES ABOVEGROUND STORAGE TANKS (AST) PAD + 2.00 ACRES WELL PAD + 8.07 ACRES TOPSOIL STOCKPILE AREA + 12.08 ACRES EXCESS MATERIAL STOCKPILE AREA + 1.47 ACRES TIMBER REMOVAL + 14.20 ACRES</p>
---	--

Project Contacts

Mark Nealey - EQT Production Company
304-848-0018 Office

Surveyor & Engineer

Ben Singleton - PE, PS - Allegheny Surveys Inc.
304-649-8606 Office

Tom Corathers - PE, PS - Hornor Brothers Engineers
304-624-6445 Office

- WELL LOCATION RESTRICTIONS**
- Well Pad complies with the Well Location Restrictions of WV code 22-5A-12
- * 250' from an existing well or deviated boring used for human or domestic purposes
 - * 625' to occupied dwelling of said greater 2500 SF used for poultry or dairy measured from the center of the pad
 - * 100' from edge of disturbance to wetlands, perennial streams, natural or artificial lake, pond or reservoir
 - * 300' from edge of disturbance to naturally reproducing trout streams
 - * 1000' of surface or ground water intake to a public water supply

FLOODPLAIN CONDITIONS

DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	NO
HEC-RAS STUDY COMPLETED	N/A
FLOODPLAIN SHOWN ON DRAWINGS	N/A
FIRM MAP NUMBER(S) FOR SITE	54033C0045D
ACREAGES OF CONSTRUCTION IN FLOODPLAIN	N/A

SHEET INDEX

COVER SHEET / LOCATION MAP	1
EXISTING CONDITIONS PLAN	2
SCHEDULE AND QUANTITIES PLAN	3
CONSTRUCTION, GENERAL AND E&S NOTES	4
OVERVIEW PLAN	5
FINAL SITE DESIGN PLANS	6-10
WELL PAD PROFILE & SECTIONS	11-12
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AST STOCKPILE PROFILE & SECTIONS	15
EXCESS MATERIAL STOCKPILES PROFILE & SECTIONS	16-25
TOPSOIL STOCKPILES PROFILE & SECTIONS	26-27
MAIN ACCESS ROAD PROFILE & SECTIONS	28-31
CONSTRUCTION DETAILS	36-38
RECLAMATION PLANS	39-43

MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV, Chapter 24-C)
Requires that you call two business
days before you dig in the state of
West Virginia
IT'S THE LAW!!

**Know what's below.
Call before you dig.**

Allegheny Surveys Inc.
P.O. Box 438
237 Birch River Road
Birch River, WV 26610
304-649-8606

Hornor Bros. Engineers
1902
304-624-6445
Civil, Mining, Environmental and
Soils Engineering
140 South State Street, Suite 200, Charleston, West Virginia, 25301

EQT
Energy Production Company

THIS DOCUMENT
PREPARED FOR
EQT PRODUCTION
COMPANY

FINAL SITE DESIGN
WAL 95
WELL PAD SITE
LAGLE DISTRICT
HARRISON COUNTY, WV

Date 12/20/2016
Scale N.T.S.

DATE	REVISIONS

RECEIVED
Office of Oil and Gas

MAY 22 2017

WV Department of
Environmental Protection

4703305892



Proposed Location

WELL LEGEND

- WAL 95 H1 - LAT 39 419196 / LONG -80 390998
- WAL 95 H2 - LAT 39 419226 / LONG -80 390962
- WAL 95 H3 - LAT 39 419256 / LONG -80 390926
- WAL 95 H4 - LAT 39 419286 / LONG -80 390890
- WAL 95 H5 - LAT 39 419316 / LONG -80 390853
- WAL 95 H6 - LAT 39 419346 / LONG -80 390816
- WAL 95 H7 - LAT 39 419376 / LONG -80 390780
- WAL 95 H8 - LAT 39 419409 / LONG -80 390742
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FLOODPLAIN CONDITIONS

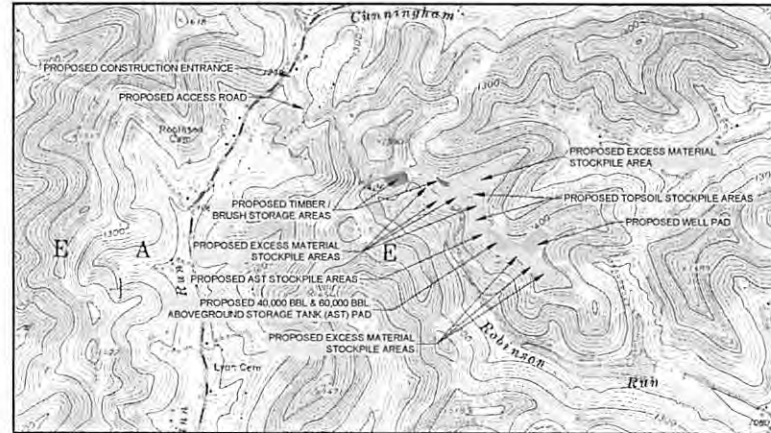
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	NO
HEC RAS STUDY COMPLETED	N/A
FLOODPLAIN SHOWN ON DRAWINGS	N/A
FIRM MAP NUMBER(S) FOR SITE	54033C0045D
ACREAGES OF CONSTRUCTION IN FLOODPLAIN	N/A

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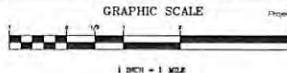
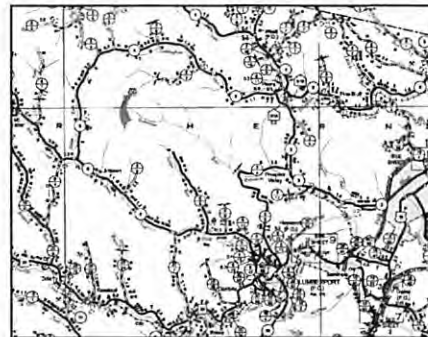
WAL 95 WELL PAD FINAL SITE DESIGN



WALLACE QUAD

0 1000 2000 3000

PROPOSED WELL PAD	EASTING	NORTHING	COORDINATE
Proposed Well Pad	78 412225	80 390757	
Proposed 80,000 BBL AST	78 412488	80 391007	
Proposed 80,000 BBL AST	78 412173	80 390771	
Proposed Access Road 80' (AST)	78 412392	80 390595	



GRAPHIC SCALE

1 INCH = 1 MILE



West Virginia Coordinate System of 1983
State Plane Grid North
All geographic information shown herein
is based on data received from EQT
Production Company.

AFFECTED PROPERTIES

- TM 186 PCL 86
LEONARD & PATRICIA HAERBROSCHE
129 ACRES
SITE DISTURBANCE
MAIN ACCESS ROAD AREA + 11 ACRES
TIMBER REMOVAL + 81 ACRES
- TM 186 PCL 87
CONSOLIDATION COAL COMPANY
50.78 ACRES
SITE DISTURBANCE
MAIN ACCESS ROAD AREA + 19 ACRES
EXCESS MATERIAL STOCKPILES AREA + 8.9 ACRES
TIMBER REMOVAL + 97 ACRES
- TM 186 PCL 11
CONSOLIDATION COAL COMPANY
175 ACRES
SITE DISTURBANCE
MAIN ACCESS ROAD AREA + 17 ACRES
ABOVEGROUND STORAGE TANK (AST) PAD + 9.38 ACRES
WELL PAD + 1.00 ACRES
AST PAD STOCKPILE + 1.88 ACRES
EXCESS MATERIAL STOCKPILES AREA + 13.10 ACRES
TOPSOIL STOCKPILES AREA + 2.38 ACRES
TIMBER REMOVAL STORAGE AREAS + 2.23 ACRES
TIMBER REMOVAL + 21.58 ACRES
- TM 186 PCL 1
CONSOLIDATION COAL COMPANY
38.15 ACRES
SITE DISTURBANCE
MAIN ACCESS ROAD AREA + 2.68 ACRES
ABOVEGROUND STORAGE TANK (AST) PAD + 2.30 ACRES
WELL PAD + 8.87 ACRES
EXCESS MATERIAL STOCKPILES AREA + 10.00 ACRES
EXCESS MATERIAL STOCKPILES AREA + 7.87 ACRES
TIMBER REMOVAL + 14.20 ACRES

Project Contacts

- Mark Newley - EQT Production Company
304-645-0018 Office
- Surveyor & Engineer
Ben Singleton - P.S. - Allegheny Surveys Inc.
304-649-8606 Office
- Tom Cornehan - PE, P.S. - Hornor Brothers Engineers
304-624-6445 Office

WELL LOCATION RESTRICTIONS

- Well Pad complies with the Well Location Restrictions of WV Code 20-6A-12
- * 250' from an existing well or developed spring used for human or domestic animals
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- * 300' from edge of disturbance to naturally reproducing trout streams
- * 1000' of surface or ground water intake to a public water supply

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RECLAMATION PLANS	39-43

The drawings, construction notes, and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas §35-4-21. The information reflects two AST pads.

Hornor Brothers Engineers make no certifications relating to the design, construction or materials associated with the Above Ground Storage Tanks (AST).

DATE	REVISIONS
8/22/2017	ADDED CONSTRUCTION ENTRANCE NOTE



Allegheny Surveys Inc.
P.O. Box 438
237 Birch River Road
Birch River, WV 26610
304-649-8606



Hornor Brothers Engineers
1800 State Street, Suite 200
Martinsburg, WV 26150
304-624-6445



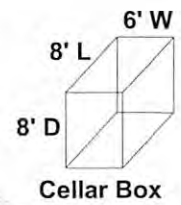
THIS DOCUMENT
PREPARED FOR
EQT PRODUCTION
COMPANY

FINAL SITE DESIGN
WAL 95
WELL PAD SITE
EAGLE DISTRICT
HARRISON COUNTY, WV

Date: 12/20/2016
Scale: N.T.S.
Drawn by: TTK
File No.: 16070001-0001.dwg
Page: 1 of 1

33-05892

WAL 95 WELL PAD FINAL SITE DESIGN



All geographic information shown herein is based on aerial photography provided by Blue Mountain Aerial Mapping with a flight date of Fall 2006



Allegghy Surveys, Inc.
P.O. Box 438
237 Birch River Road
Birch River, WV 26610
304-649-8606



Horror Engineering and Consulting, Inc.
1906
Civil, Mining, Environmental and
Surveying Engineering
1400 New York Avenue, Suite 400
Washington, DC 20004



THIS DOCUMENT
PREPARED FOR
EQT PRODUCTION
GUARANTY

FINAL SITE DESIGN
**WAL 95
WELL PAD SITE**
EAGLE DISTRICT
HARRISON COUNTY, WV

Date: 12/20/2016

Scale: 1" = 50'

Drawn by: JHC

Page: 10 of 43

