



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
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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 WAL95H8
47-033-05896-00-00

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: WAL95H8
Farm Name: CONSOLIDATION COAL COMPANY
U.S. WELL NUMBER: 47-033-05896-00-00
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: WAL95H8 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

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: 13362

11) Proposed Horizontal Leg Length: 4755

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

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
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	13362	13362	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							

<u>TYPE</u>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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 4654'. 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 apparent hole 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.

4703305896

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

2/7/17

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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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

33-05896

Well **WAL95H8**
EQT Production
Wallace Quad
Harrison County, WV

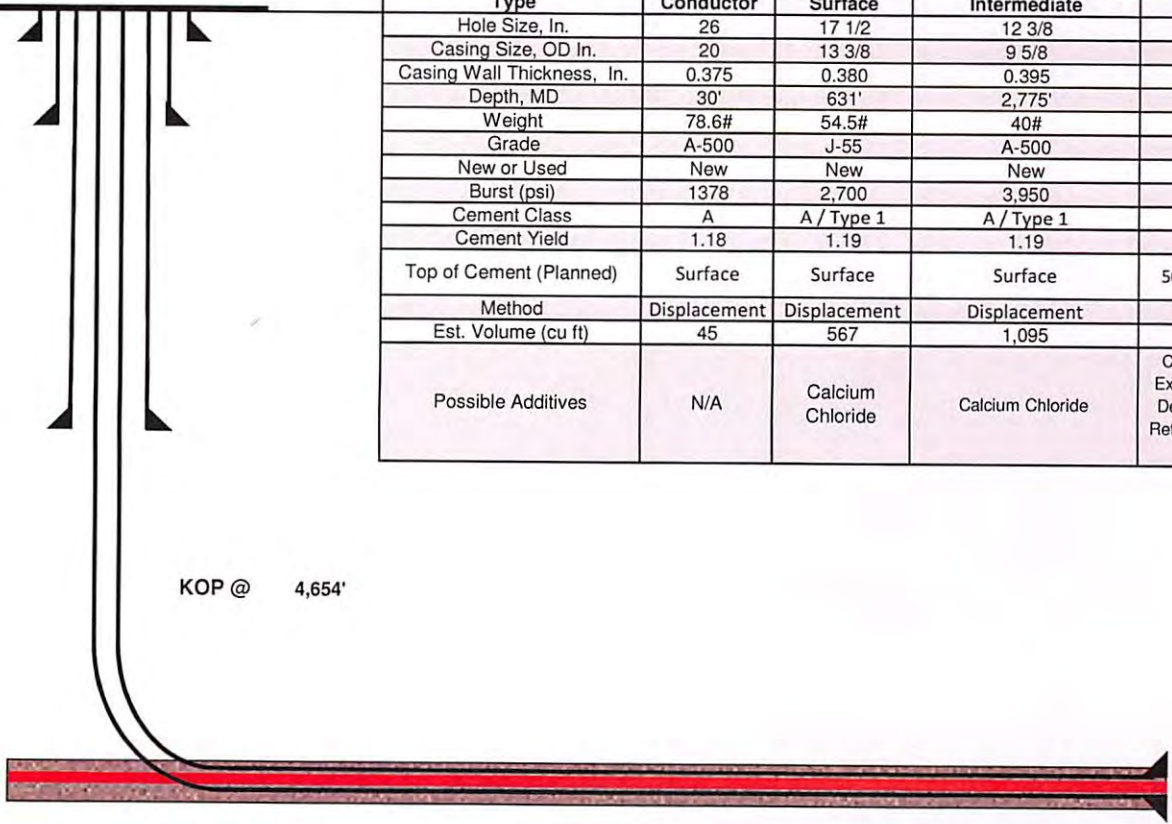
Azimuth 158
 Vertical Section 2775

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Note: Diagram is not to scale

Formations	Top TVD	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
Forth 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
Geneseo	7229	7254
Tully	7254	7309
Hamilton	7309	7439
Marcellus	7439	7536
Production Casing	13362	MD
Onondaga	7536	

Casing and Cementing				Deepest Fresh Water: 159'
Type	Conductor	Surface	Intermediate	Production
Hole Size, In.	26	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	20	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.375	0.380	0.395	0.361
Depth, MD	30'	631'	2,775'	13,362'
Weight	78.6#	54.5#	40#	20#
Grade	A-500	J-55	A-500	P-110
New or Used	New	New	New	New
Burst (psi)	1378	2,700	3,950	12,640
Cement Class	A	A / Type 1	A / Type 1	A / H
Cement Yield	1.18	1.19	1.19	1.123/2.098
Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Method	Displacement	Displacement	Displacement	Displacement
Est. Volume (cu ft)	45	567	1,095	2,561
Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent



Land curve @ 7,467' TVD Est. TD @ 7,467' TVD
 8,607' MD 13,362' MD

Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 4654'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

4,755' Lateral

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.

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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

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: _____

Comments: _____

Title: _____

Date: _____

Field Reviewed? () Yes () No

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EQT Production Water plan
Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

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

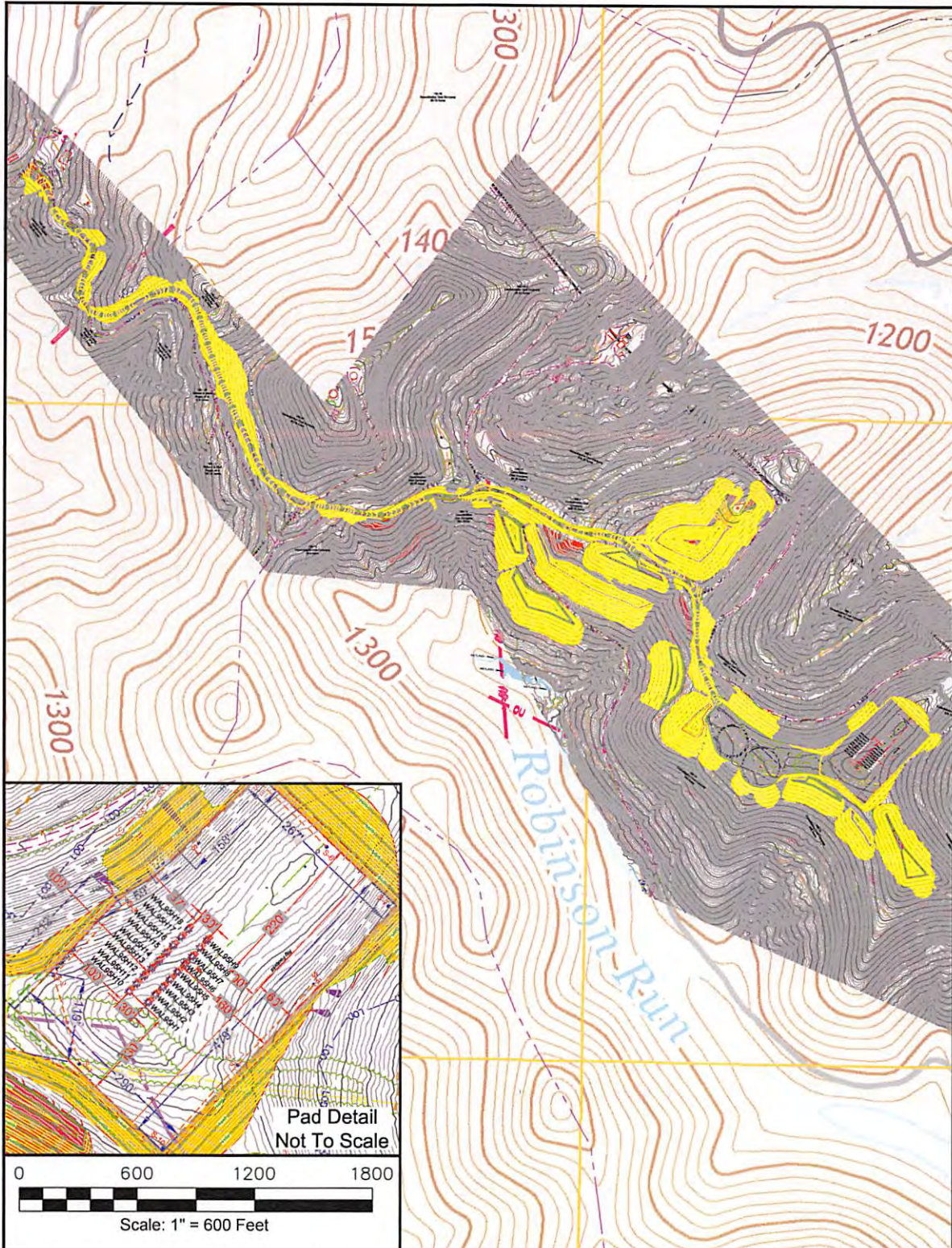
Rt. 2, Box 68 Dawson Drive
 Bridgeport, WV 26330
 304-326-6027
 Permit #SWF-1032-98
 Approval #100785WV

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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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.



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

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Where energy meets innovation.™

Site Specific Safety Plan

EQT
WAL95 Pad
Shinnston Township
Harrison County, WV

For Wells:

WAL95H1 WAL95H2 WAL95H3 WAL95H4 WAL95H6 WAL95H7 WAL95H8

WAL95H9 _____

Date Prepared: **December 29, 2016**

EQT Production

Title

Date

[Handwritten Signature]
 Permitting Supervisor
 3-22-17

WV Oil and Gas Inspector

Title

Date

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MAY 04 2017

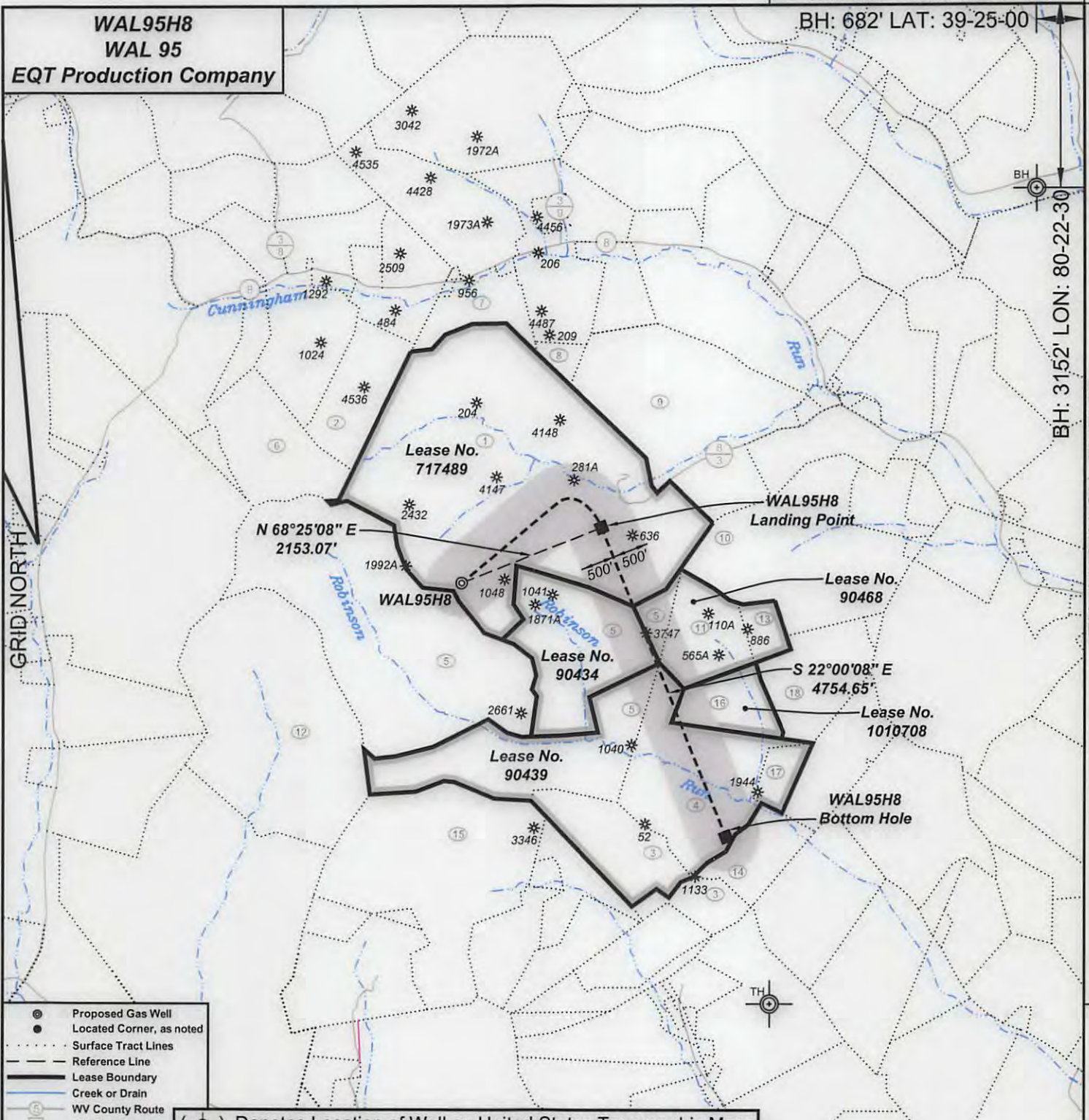
WV Department of
Environmental Protection

09/01/2017

TH: 4501' LAT: 39-27-30

BH: 682' LAT: 39-25-00

**WAL95H8
WAL 95
EQT Production Company**



BH: 3152' LON: 80-22-30

TH: 14209' LON: 80-22-30

- ⊙ 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: WAL95H8
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.: WAL95H8
API WELL NO *H6A*
47 - 33 - *05896*
STATE COUNTY PERMIT

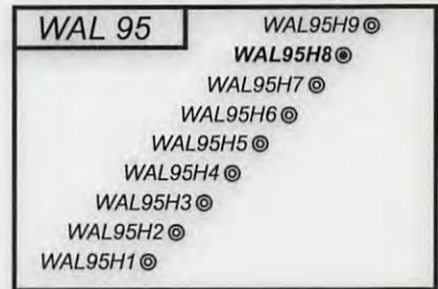
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: Existing 1468' Proposed 1428' WATERSHED: Robinson Run QUADRANGLE: Wallace
DISTRICT: Eagle COUNTY: Harrison
SURFACE OWNER: Consolidation Coal Company ACREAGE: *306.15* **09/01/2017**
ROYALTY 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

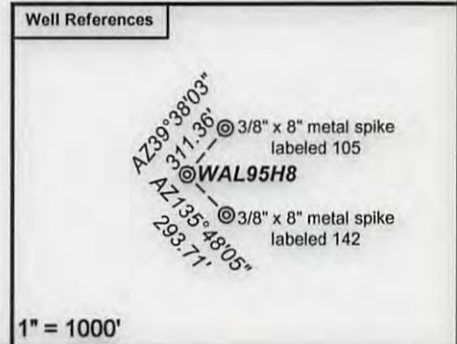
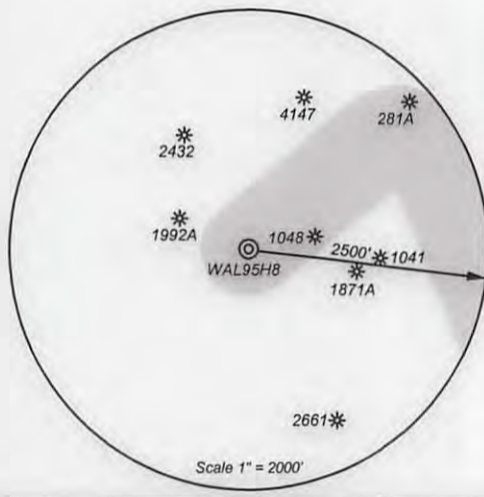
**WAL95H8
WAL 95
EQT Production Company**

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	166	37	Harrison	Eagle	Consolidation Coal Company	39.15
4	166	25	Harrison	Eagle	Consolidation Coal Company	90.87
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	165	25	Harrison	Eagle	Harrison County Coal Company	147.00
13	166	20	Harrison	Eagle	Consolidation Coal Company	10.00
14	166	38	Harrison	Eagle	Consolidation Coal Company	16.36
15	166	33	Harrison	Eagle	Consolidation Coal Company	127.38
16	166	19	Harrison	Eagle	Consolidation Coal Company	24.25
17	166	25.1	Harrison	Eagle	Consolidation Coal Company	10.25
18	166	21	Harrison	Eagle	Consolidation Coal Company	41.18

Notes:
WAL95H8 coordinates are
 NAD 27 N: 336,084.18 E: 1,748,303.77
 NAD 27 Lat: 39.419323 Long: -80.390930
 NAD 83 UTM N: 4,363,497.61 E: 552,444.07
WAL95H8 Landing Point coordinates are
 NAD 27 N: 336,876.12 E: 1,750,305.91
 NAD 27 Lat: 39.421552 Long: -80.383871
 NAD 83 UTM N: 4,363,749.05 E: 553,050.03
WAL95H8 Bottom Hole coordinates are
 NAD 27 N: 332,467.75 E: 1,752,087.21
 NAD 27 Lat: 39.409497 Long: -80.377414
 NAD 83 UTM N: 4,362,415.03 E: 553,615.11
 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.



Lease No.	Acres	Owner
90434	71.00	Clarissa Fornash, et al.
90439	214.00	Jane H. Tortorete, et al.
90468	41.00	Clarissa Fornash
1010708	24.25	Norma J. Burr



- ⊙ 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.

[Signature]
P.S. 2089SU



FILE NO: 149-36-E-15
 DRAWING NO: WAL95H8
 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.: WAL95H8
 API WELL NO: H6A
 47 - 33 - 05896
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Existing 1468' 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

33-05896

WW-6A1
(5/13)

Operator's Well No. WAL95H8

**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

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



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33-05896

WW-6A1 attachment

Operator's Well No.

WAL95H8

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>717489</u>	<u>Judith C. Asef, 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>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		51/796 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
<u>90439</u>	<u>Jane H. Tortorete, et al (current royalty owner)</u>		**	
	L H Coffman, et ux (original lessor)	Hope Natural Gas Company		149/332
	Hope Natural Gas Company	Consolidated Gas Supply Corporation		903/179
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation		1136/250
	Consolidated Gas Transmission Company	CNG Transmission Corporation		51/795 name change
	CNG Transmission Corporation	UMC Petroleum Corporation		1230/1194
	UMC Petroleum Corporation	Ashland Exploration, Inc.		1263/494
	Ashland Exploration, Inc.	Blazer Energy Corp		1294/299
	Blazer Energy Corp	Eastern States Oil & Gas, Inc.		58/93 name change
	Eastern States Oil & Gas, Inc.	EQT Production Company		59/854 name change
<u>90468</u>	<u>Clarissa Fornash (current royalty owner)</u>		**	
	Ruth Gains, et vir	Consolidated Gas Supply Corporation		1017/179
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation		1136/250
	Consolidated Gas Transmission Company	CNG Transmission Corporation		51/795 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
	Eastern States Oil & Gas, Inc.	EQT Production Company		59/854 name change
<u>1010708</u>			**	
	Norma Burr (original lessor)	EQT Production Company		1561/751

** 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 (or 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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33-05896

DEC 29 2000 2:01 PM FR EQT
200096 - 308

412 553 7781 TO 92815212

P. 15

DEC 29 2000

Microfilm Number _____
Entity Number 2719730

Filed with the Department of State on _____
[Signature]
Secretary of the Commonwealth

ARTICLES OF MERGER-DOMESTIC BUSINESS CORPORATION
DSC:15-1928 (Rev. 92)

In compliance with the requirements of 15 Pa.C.S. § 1928 (relating to articles of merger or consolidation), the undersigned business corporations, desiring to effect a merger, hereby state that:

1. The name of the corporation surviving the merger is: EQUITABLE PRODUCTION - EASTERN STATES, INC.

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):

(a) _____
Number and Street City State Zip County

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

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.

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):

(a) _____
Number and Street City State Zip County

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

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.

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 domiciliary jurisdiction is:

Number and Street City State Zip

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:

Name of Corporation	Address of Registered Office or Name of Commercial Registered Office Provider	County
<u>Carnegie Production Company</u>	<u>One Oxford Centre, Suite 3300, Pittsburgh, PA 15219-6401</u>	<u>Allegheny</u>

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FACES - 161499 C.T. System Online

PA. DEPT. OF STATE

WV Department of Environmental Protection

DEC 29 2000 15:00 CT CORPORATION SYSTEMS 2000 DEC 29 PM 4:06 412 281 5212 P. 15/22

09/01/2017

33-05896

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 S. O'Laughlin
(Signature)

TITLE: VP and Corporate Secretary

Carnegie Production Company
(Name of Corporation)

BY: [Signature]
(Signature)

TITLE: VP

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WV Department of
Environmental Protection 09/01/2017

33-05896

200096-310

**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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09/01/2017

33-05896

200096-311

- (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'Houghlin*
VP and Corporate Secretary

CARNEGIE PRODUCTION COMPANY

By: *Henry C. Paul*
VP

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Office of Oil and Gas

MAY 04 2017

09/01/2017



33-05896

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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WV Department of
Environmental Protection

09/01/2017

**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 - 05896
Operator's Well No. WAL95H8
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>552444.07</u>
County:	<u>Harrison</u>		Northing:	<u>4363497.61</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: 40px;"><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 *Victoria J Roark*, 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: EQT Production Company
By: Victoria J Roark
Its: Permitting Supervisor
Telephone: 304-848-0076

Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Facsimile: 304-848-0041
Email: vroark@eqt.com



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: _____

*Please attach additional forms if necessary

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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

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.**

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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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Environmental Protection
05/04/2017

WW-6A
(8-13)

API NO. 47- 033 - 05896
OPERATOR WELL NO. WAL95H8
Well Pad Name: WAL95

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 depprivacyofficer@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

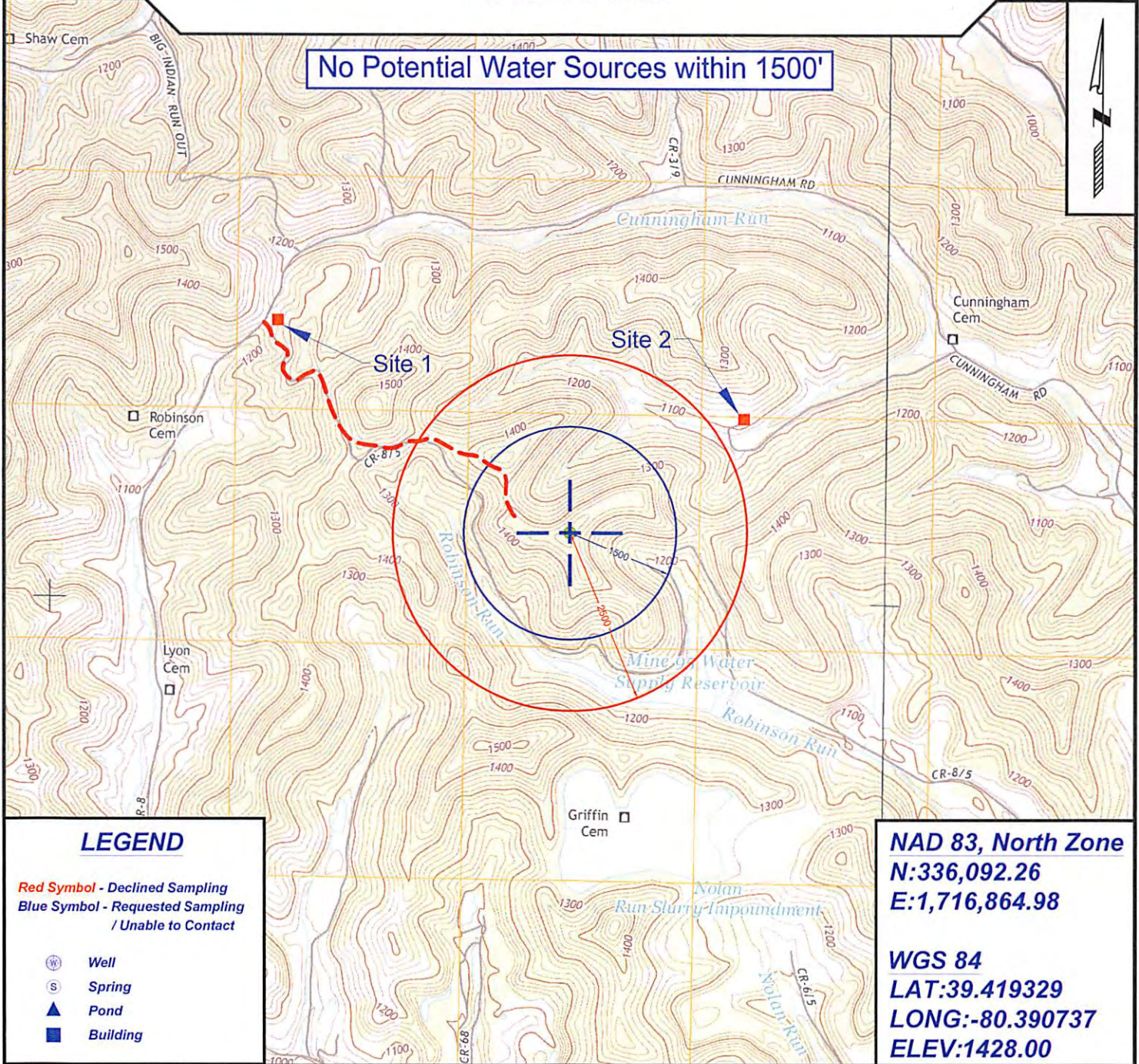
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Topo Quad: Wallace Scale: 1" = 2000'
 County: Harrison Date: August 5, 2016
 District: Eagle Project No: 149-36-E-15

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

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
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 WV Department of Environmental Protection

09/04/2017

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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CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Price \$ _____

Sent To _____

Street # _____

City, St _____

PS Form 3800, April 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
WAL95 Permit App and Planned Op

Instructions

7016 3560 0000 4644 1162

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CERTIFIED MAIL® RECEIPT**
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For delivery information, visit our website at www.usps.com®.

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Certified Mail Fee \$ _____

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total Price \$ _____

Sent To _____

Street # _____

City, St _____

PS Form 3800, April 2012

Postmark: BRIDGEPORT WV MAY 03 2013

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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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

7016 3560 0000 4644 1186

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<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	\$
Total P	\$
Sent To	
Street	
City, St	
PS Form	

BRIDGEPORT, WV
Postmark Here
MAY 03 2018

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

330-USPS

Instructions

7016 3560 0000 4644 1162

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
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<input type="checkbox"/> Adult Signature Required	\$
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BRIDGEPORT, WV
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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.

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Leonard O Harberbosch
1790 Cunningham Run
Lumberport WV 26386
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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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Consolidation Coal Co. (WV)
c/o Murray Energy Corp.
1 Bridge Street
Monongah WV 26554
Attn: Troy Freels
WAL95 Permit App and Planned Op.

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c/o Murray Energy Corp.
46226 National Road
St. Clairsville OH 43950
Attn: Alex O'Neill
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33-05896

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

Street
City, State

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Total P
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Sent To
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City, State

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Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
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Total Postage and Fees
\$ _____

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

Street and
City, State

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Postage
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Total Postage and Fees
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Sent To
CNX Gas Company
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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City, State

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Office of Oil and Gas

MAY 04 2017

WV Department of Environmental Protection

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)

MINERAL OWNER(S)

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

Name: _____
Address: _____

COAL OWNER(S) OR LESSEE(S)

COAL OWNER(S) OR LESSEE(S)

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

Name: Murray American Energy
Attn: Alex O'Neil
Address: 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*

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

33-05896

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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Consolidation Coal Co. (OH)
c/o Murray Energy Corp.
46226 National Road
St. Clairsville OH 43950
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Environmental Protection
09/01/2017

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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Leonard O Harberbosch
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WAL95 Permit App and Planned Op.

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09/01/2017

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Attn: Troy Freels

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09/01/2017



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	WAL95H4
WAL95H5	WAL95H6	WAL95H7	WAL95H8 33-05896
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

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		

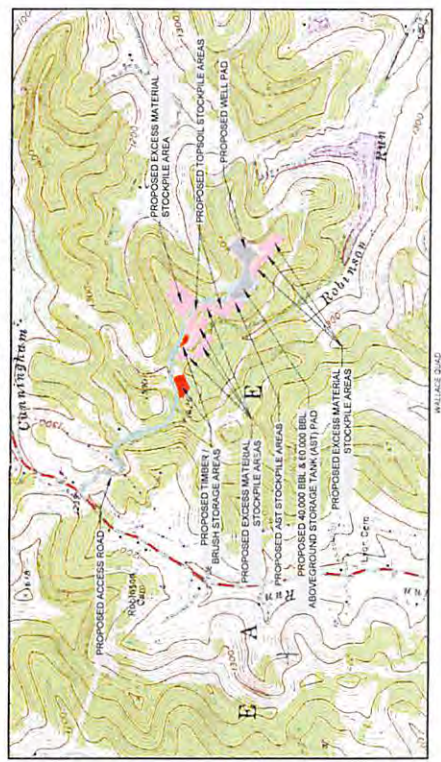
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Office of Oil and Gas
MAY 04 2017
Department of
Environmental Protection
09/01/2017

WAL 95 WELL PAD FINAL SITE DESIGN



WELL LEGEND

WAL 95111	LAT 39 419256 / LONG -80 386028
WAL 95112	LAT 39 419256 / LONG -80 386028
WAL 95113	LAT 39 419256 / LONG -80 386028
WAL 95114	LAT 39 419256 / LONG -80 386028
WAL 95115	LAT 39 419256 / LONG -80 386028
WAL 95116	LAT 39 419256 / LONG -80 386028
WAL 95117	LAT 39 419256 / LONG -80 386028
WAL 95118	LAT 39 419256 / LONG -80 386028
WAL 95119	LAT 39 419256 / LONG -80 386028
WAL 95120	LAT 39 419256 / LONG -80 386028
WAL 95121	LAT 39 419256 / LONG -80 386028
WAL 95122	LAT 39 419256 / LONG -80 386028
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WAL 95148	LAT 39 419256 / LONG -80 386028
WAL 95149	LAT 39 419256 / LONG -80 386028
WAL 95150	LAT 39 419256 / LONG -80 386028



WELL LOCATION SCHEDULE

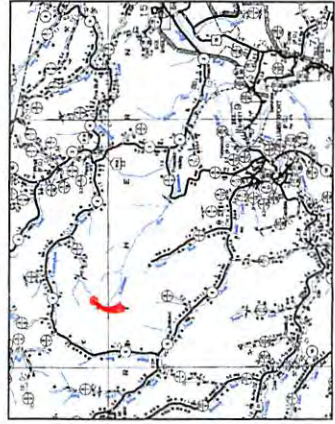
WELL ID	WELL TYPE	WELL DEPTH (FEET)	WELL DIAMETER (INCHES)	WELL STATUS
WAL 95111	Production	100	4	Active
WAL 95112	Production	100	4	Active
WAL 95113	Production	100	4	Active
WAL 95114	Production	100	4	Active
WAL 95115	Production	100	4	Active
WAL 95116	Production	100	4	Active
WAL 95117	Production	100	4	Active
WAL 95118	Production	100	4	Active
WAL 95119	Production	100	4	Active
WAL 95120	Production	100	4	Active
WAL 95121	Production	100	4	Active
WAL 95122	Production	100	4	Active
WAL 95123	Production	100	4	Active
WAL 95124	Production	100	4	Active
WAL 95125	Production	100	4	Active
WAL 95126	Production	100	4	Active
WAL 95127	Production	100	4	Active
WAL 95128	Production	100	4	Active
WAL 95129	Production	100	4	Active
WAL 95130	Production	100	4	Active
WAL 95131	Production	100	4	Active
WAL 95132	Production	100	4	Active
WAL 95133	Production	100	4	Active
WAL 95134	Production	100	4	Active
WAL 95135	Production	100	4	Active
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WAL 95146	Production	100	4	Active
WAL 95147	Production	100	4	Active
WAL 95148	Production	100	4	Active
WAL 95149	Production	100	4	Active
WAL 95150	Production	100	4	Active

5/18/2017
JDM

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	54033D094D
ACREAGES OF CONSTRUCTION IN FLOODPLAIN	N/A

811
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.



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 (2) years of design and construction materials associated with the Above Ground Storage Tanks (AGST).

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DATE REVISIONS

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

Hornor Bros. Engineers
1902
Civil, Mining, Environmental and
Surveying
Charmellee, West Virginia 26030
304-448-5018

EQIT
Environmental Quality Improvement Technology

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

Date: 12/20/2016
Scale: N.T.S.
Project No.: 16-00000000000000000000
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