



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

June 26, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10303103, issued to AMERICAN ENERGY-MARCELLUS, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: WILEY S GRN WZ 6H
Farm Name: COASTAL LUMBER COMPANY
API Well Number: 47-10303103
Permit Type: Horizontal 6A Well
Date Issued: 06/26/2015

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE) and WV DEP Department of Water and Waste Management (DWWM). No activity authorized under this permit shall be commenced until all necessary permits from USACE and DWWM are obtained.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.



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Earl Ray Tomblin, Governor
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**ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: American Energy Marcellus, LLC
3501 NW 63rd Street
Oklahoma City, OK 73116

DATE: June 25, 2015
ORDER NO.: 2015-W-6

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to American Energy Marcellus, LLC. (hereinafter "AEM" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. AEM is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 3501 NW 63rd Street Oklahoma City, Oklahoma.
3. On March 12, 2015, AEM submitted well work permit applications identified as API#s 47-103-03098, 47-103-03099, 47-103-03100, 47-103-03101, 47-103-03102, 47-103-03103, 47-103-03104 and 47-103-03105 located on the Wiley GRN WZ Pad in Green District of Wetzel County, West Virginia.
4. On March 12, 2015, AEM requested a waiver for Wetland #1 outlined in Exhibit B, from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as 47-103-03098, 47-103-03099, 47-103-03100, 47-103-03101, 47-103-03102, 47-103-03103, 47-103-03104 and 47-103-03105 located on the Wiley GRN WZ Pad in Green District of Wetzel County, West Virginia.

06/26/2015

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “[n]o 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 Office of Oil and Gas 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 Office of Oil and Gas 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.”

ORDER

Therefore, the Office of Oil and Gas grants AEM a waiver for Wetland #1 from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as API#s 47-103-03098, 47-103-03099, 47-103-03100, 47-103-03101, 47-103-03102, 47-103-03103, 47-103-03104 and 47-103-03105 located on the Wiley GRN WZ Pad in Green District of Wetzel County, West Virginia. The Office of Oil and Gas hereby **ORDERS** that AEM shall meet the following site construction and operational requirements for the Wiley GRN WZ well pad:

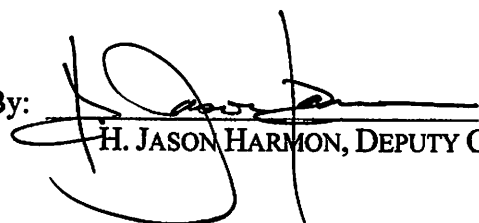
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least two feet (2') in height;
- b. Filter/silt socks and erosion control blankets shall be installed on all slopes and down gradient locations of the pad and topsoil pile areas as erosion and sediment controlling BMPs;
- c. Wetland #1 shall have a double compost filter sock stack and super silt fencing installed adjacent to the wetland;
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 25th day of June, 2015.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:


H. JASON HARMON, DEPUTY CHIEF

Wetland Waiver Request

API Number 10303103 Well Number Wiley S GRN WZ 6H
Operator American Energy Marcellus, LLC Pad Name Wiley GRN WZ Well Pad

Submit a conclusive demonstration to justify the proposed activity by addressing the following:

- 1. Demonstrate that there is not a practical alternative to impact the Waters of the U.S. by including other alternatives that were considered but eliminated.**
 - a. Include a No-Action Alternative as to show "the future without the project
 - b. Location Alternatives must be shown
 - c. Must demonstrate why a 100' buffer cannot be maintained

a. A No-action alternative would result in the inability to extract any gas from this unit. The only available area for pad construction would be in the proposed location as shown in the attached drawing. Within this unit boundary there are no other viable pad locations, due to steepness of slope and impacts to waters of the U.S. In essence, the land surface and gas below would be unable to be developed in the Unit Boundary as shown.

b. See Exhibit "B" for overview of elimination of alternatives.

East and West: Pad was unable to be shifted East or West 100' away of the proposed pad location because of impacts to Waters of the U.S. and steep terrain.

North West: Pad was unable to be shifted North West of the proposed pad location without affecting waters of the U.S. because of the steepness of terrain. Refer to Exhibit "A".

South East: Pad was unable to be shifted South East of the proposed location without affecting water of the U.S. because of steepness of terrain. In addition, other areas that are more flat in nature are located on the banks of major watercourses where dwellings are located.

c. Steep terrain and other environmental features prohibit any other location within the area to be utilized. Specifically, an odd shaped pad has been utilized to prevent encroachments into the wetlands themselves and encroachment into the 100' buffer of other wetlands.

Wetland #1-> The majority of the well pad proposed above wetland #1 is in cut. This maximizes the distance from the wetland. However, shifting the pad away from the wetland anymore to avoid the 100' setback requirement would make the pad too small for drilling operations and encroach into another wetlands 100' buffer.

- 2. Show that treatment facilities (Erosion and Sediment Control Features) will be located as close as practical to the source(s) with which it is associated.**

Erosion and Sedimentation Controls have been located as practicably possible to earth disturbance. Erosion & Sediment Control and Site Plan display the location of these controls. These controls are unable to be any closer to the proposed well pad as area needed to construct toe benches and fill slopes is already squeezed as tightly as possible for safe construction practices to be met. Exhibits for the wetland show the location of erosion and sediment controls in relation to the associated wetland.

06/26/2015

Wetland Waiver Request

- 3. Demonstrate that all proposed activity will not impact Waters of the U.S. more than is necessary to accommodate the proper construction and operation of the facility.**
- a. Specify and identify wetlands using unique identification and/or perennial streams located within 100' of the pad's limit of disturbance (including erosion and sediment controls).
 - b. Is the proposed project the least environmentally damaging practicable alternative to the waters of the United States, so long as the alternative does not have other environmental consequences

No proposed activity will impact waters of the U.S.

- a. One wetland is located within the 100' of the pad's limit of disturbance.

Wetland #1 is located overtop an existing gasline. It is 14,623 SF in size. Based on it's location and long and slender shape, this wetland appears to have been created as a result of the previous gas line installation. The closest distance to the LOD is 7 feet.

Super Silt Fence and 24" Compost filter sock will be utilized in areas within the 100' buffer for the wetland. Orange fencing will also be installed on the Project boundary to ensure no accidental encroachment happens.

- b. Yes, this project avoids being 100' from all perennial streams. In addition, the majority of the pad proposed above Wetland #1 is cut. This maximizes the distance from the wetland. Fill slope heights in this area have been minimized to stay maximum distance away from wetlands.

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.**
- a. Specify in writing what additional controls, measures, devices, monitoring, etc will be utilized to protect these wetlands and/or perennial streams.

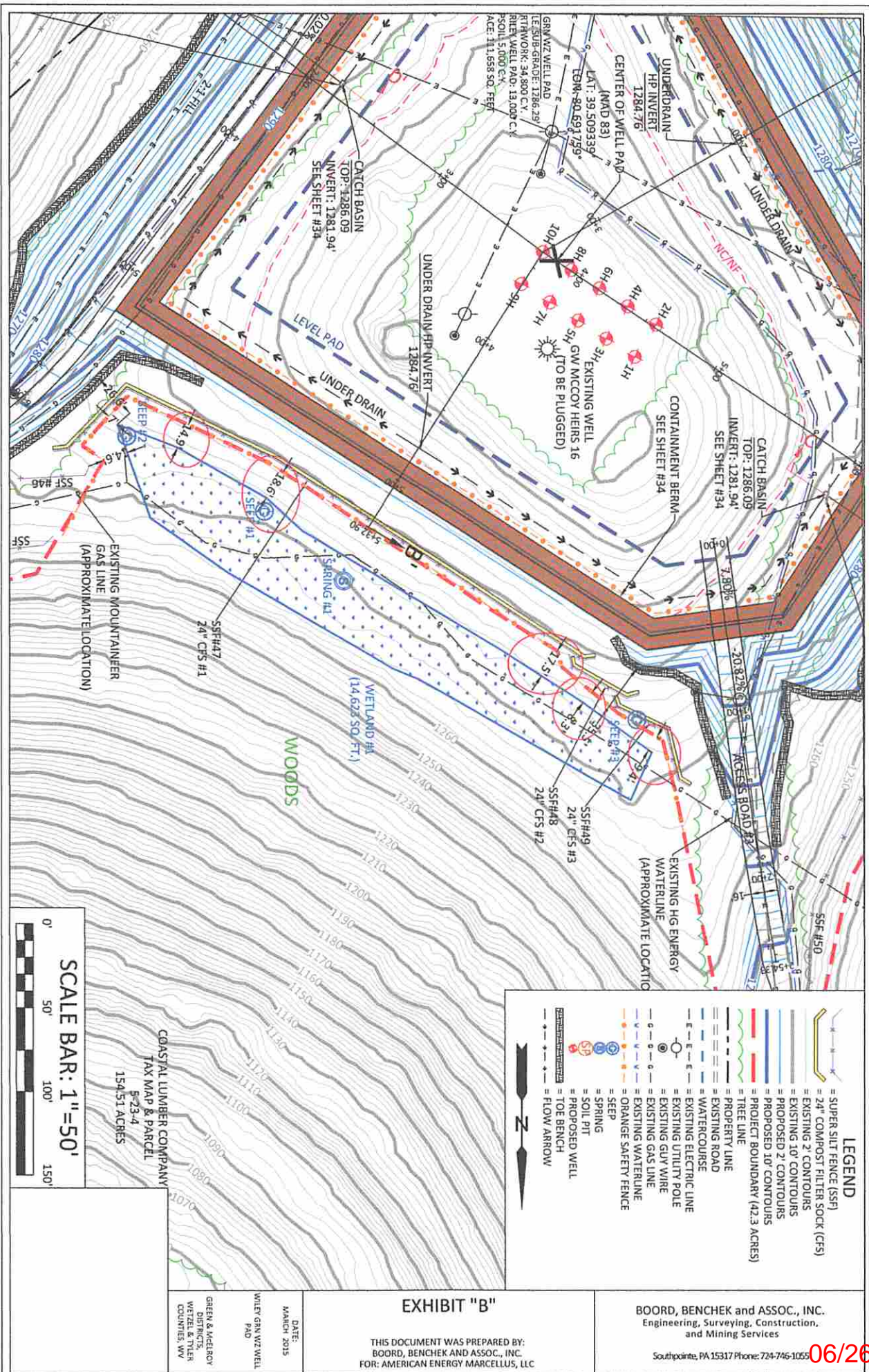
Erosion and Sediment Control and Site Plan has already been provided. Overviews of these impact areas are attached showing E&S Controls.

Wetland #1

In addition to the Super Silt Fence typically used on sites we have placed 24" compost filter sock in front of the SSF. The majority of the proposed well pad above Wetland #1 is constructed in cut.

A geotechnical inspector will be on-site to ensure the recommended construction techniques are followed. An earthen berm is proposed to be placed on the perimeter of the pad. It is 3.3 feet in height with a top width of 2 feet and 2:1 slopes with a base of 15.2 feet.

This provides for more than adequate containment during and after drilling activities. While the distance from the LOD is only 7 feet in the closest area the distance from the fill slope itself is 35.5 feet in its closest spot.



COASTAL LUMBER COMPANY
TAX MAP & PARCEL
5-23-4
154.51 ACRES

LEGEND

- = SUPER SILT FENCE (SSF)
- = 24" COMPOST FILTER SOCK (CFS)
- = EXISTING 2" CONTOURS
- = EXISTING 10" CONTOURS
- = PROPOSED 2" CONTOURS
- = PROPOSED 10" CONTOURS
- = PROJECT BOUNDARY (42.3 ACRES)
- = FREE LINE
- = PROPERTY LINE
- = EXISTING ROAD
- = WATERCOURSE
- = EXISTING ELECTRIC LINE
- = EXISTING UTILITY POLE
- = EXISTING GAS LINE
- = EXISTING WATERLINE
- = ORANGE SAFETY FENCE
- = SEEP
- = SPRING
- = SOIL PIT
- = PROPOSED WELL
- = TOE BENCH
- = FLOW ARROW

10303103

EXHIBIT "B"

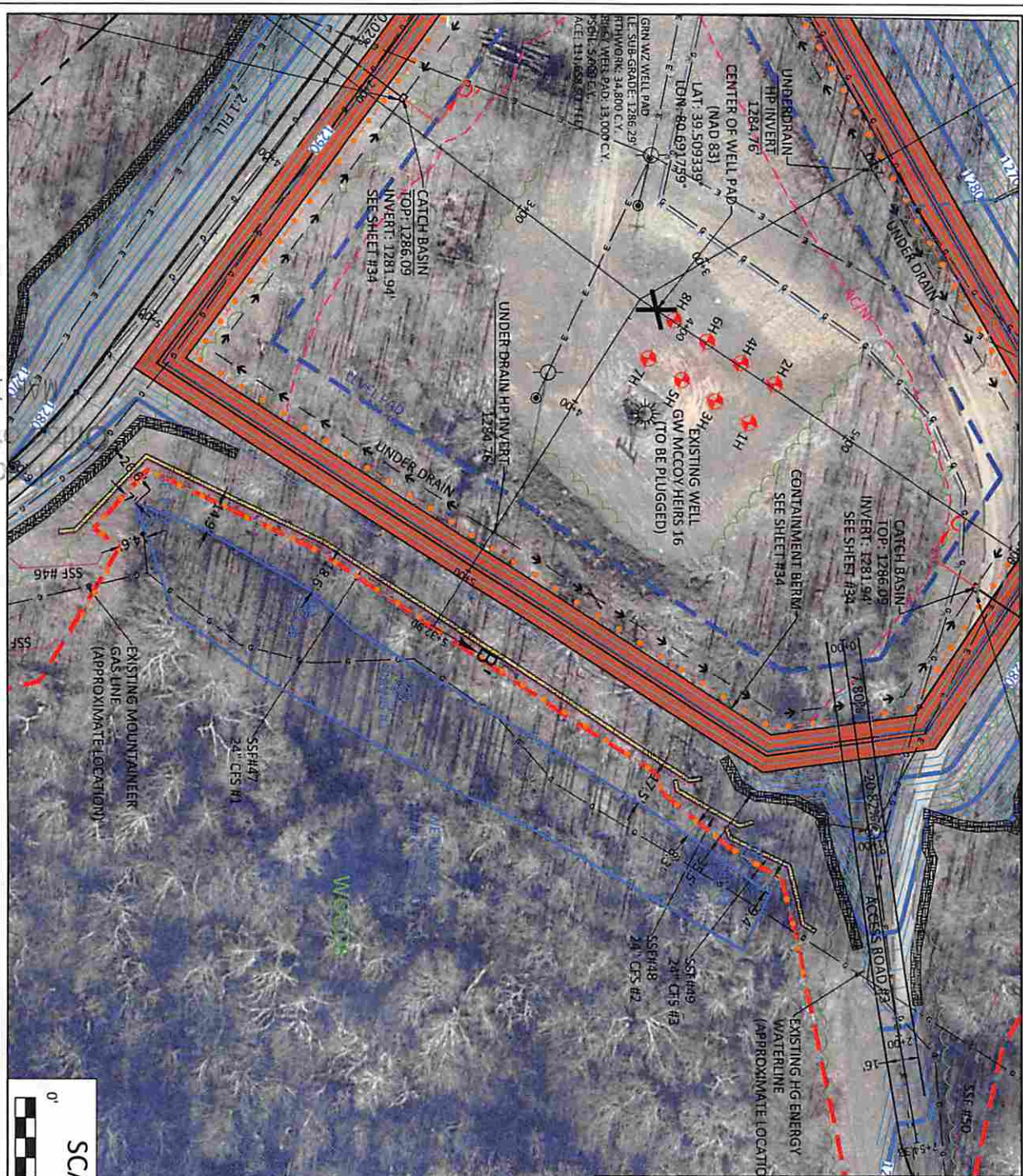
THIS DOCUMENT WAS PREPARED BY:
BOORD, BENCHEK AND ASSOC., INC.
FOR: AMERICAN ENERGY MARCELLUS, LLC

BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services

Southpointe, PA 15317 Phone: 724-746-1055

06/26/2015

SHEET #1



LEGEND

- = SUPER SILT FENCE (SSF)
- = 24" COMPOST FILTER SOCK (CFS)
- = EXISTING 2' CONTOURS
- = EXISTING 10' CONTOURS
- = PROPOSED 2' CONTOURS
- = PROPOSED 10' CONTOURS
- = PROJECT BOUNDARY (42.3 ACRES)
- = TREE LINE
- = PROPERTY LINE
- = EXISTING ROAD
- = WATERCOURSE
- = EXISTING ELECTRIC LINE
- = EXISTING UTILITY POLE
- = EXISTING GUY WIRE
- = EXISTING GAS LINE
- = EXISTING WATERLINE
- = ORANGE SAFETY FENCE
- = SEEP
- = SPRING
- = SOIL PIT
- = PROPOSED WELL
- = TOE BENCH
- = FLOW ARROW



COASTAL LUMBER COMPANY
 TAX MAP & PARCEL
 5-23-4
 15A-51 ACRES

DATE:
 MARCH 2015
 WILEY GRN WZ WELL
 PAD

EXHIBIT "C"

THIS DOCUMENT WAS PREPARED BY:
 BOORD, BENCHEK AND ASSOC., INC.
 FOR: AMERICAN ENERGY MARCELLUS, LLC

BOORD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services

Southpointe, PA 15317 Phone: 724-746-1055

Received
 Oil & Gas
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06/26/2015

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

1) Well Operator: American Energy-Marcellus

<u>494510050</u>	<u>Wetzel</u>	<u>Green</u>	<u>Center Point</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: Wiley S GRN WZ 6H Well Pad Name: Wiley GRN WZ

3) Farm Name/Surface Owner: Coastal Lumber Co. Public Road Access: CR 13. CR 13/3 and CR 13/8

4) Elevation, current ground: 1315' Elevation, proposed post-construction: 1286.29'

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 Associated Pressure(s):
Marcellus, Approximate TVD 7277', approximate thickness 50', +/- 4600 psi

8) Proposed Total Vertical Depth: 7277'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15650'

11) Proposed Horizontal Leg Length: 7805'

12) Approximate Fresh Water Strata Depths: 535'

13) Method to Determine Fresh Water Depths: Based on drilling history in nearby wells

14) Approximate Saltwater Depths: 1315'

15) Approximate Coal Seam Depths: 1065'

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated

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: _____
Depth: _____
Seam: _____
Owner: _____

GC
6/25/15

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	330, CTS
Fresh Water	13-3/8"	New	J-55	54.5#	1105'	1105'	320, CTS
Coal							
Intermediate	9-5/8"	New	J-55	40#	3400'	3400'	1650, CTS
Production	5-1/2"	New	P-110	20#	15650'	15650'	4375
Tubing	2-7/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438	2110	50	Class A	1.2
Fresh Water	13-3/8"	17-1/2"	0.38	2740	600	Class A	1.2
Coal							
Intermediate	9-5/8"	12-1/4"	0.395	3520	1500	Premium H50-50 Poz H	Tail 1.27, Lead 1.51
Production	5-1/2"	8-3/4"	0.361	12640	5000	Premium H50-50 Poz H	Tail 1.27, Lead 1.51
Tubing	2-7/8"	4.778"	0.19	11100			
Liners							

*GCS
6/25/15*

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

The well will be spud using a conductor rig. It will drill down 100' per the casing program. It will set 20" casing and circulate cement back to surface. The conductor rig will move off location, a rig capable of drilling to TD will move on and finish drilling the well. We will drill on air with a tri-cone bit to 1105' and set freshwater casing. We will then continue drilling vertically and setting casing per the attached casing program to TD.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

We plan to hydraulically fracture/stimulate the well utilizing the "slickwater" frac technique. We will plug and perforate through cased hole and frac with an anticipated max pressure that will not exceed 10,000 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 42.3

22) Area to be disturbed for well pad only, less access road (acres): 6.8

23) Describe centralizer placement for each casing string:

Conductor: N/A
Surface: Centralizer every 3 joints or 120'
Intermediate: Centralizer every 3 joints or 120'
Production: Run 1 spiral centralizer every 120' from the first 5.5" long joint to the top of the curve
Run 1 spiral centralizer every 200' from the top of the curve to surface

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

Conductor: Class A Cement (see attachment for complete description)
Surface: Class A Cement (see attachment for complete description)
Intermediate: Premium H/50-50 Poz H Cement (see attachment for complete description)
Productions: Premium H/50-50 Poz H Cement (see attachment for complete description)

25) Proposed borehole conditioning procedures:

The wellbore will be properly circulated at TD of each section until as much of the residual drill cuttings have been removed from the wellbore as possible, residual drilling gas has been circulated out and until the mud and wellbore are both constant and stable. Mud properties will be adjusted if needed. Hole cleaning times may vary from well to well, hole section to hole section.

*Note: Attach additional sheets as needed.

GES 6/25/14

Cement Additives for WW-6B

Class A – Neat + 2% BWOC Calcium + Chloride + .25% BWOC Flo-Seal Additives are Polyflake LCM

Class H Premium + 0.75% FI 17 + 0.1% C41P + 0.15%C45 +3pps gilsonite + 0.2% C20 Additives are FL-17, C41-P, C-45, Gilsoite, and C-20

50/50 Poz H + 0.5 %FL 17 +5% Gyp + 0.1%C41P + 0.15% C51 + 0.1% C20 Additives are FL-17, Gypsum, C41-P, C-51, and C-20

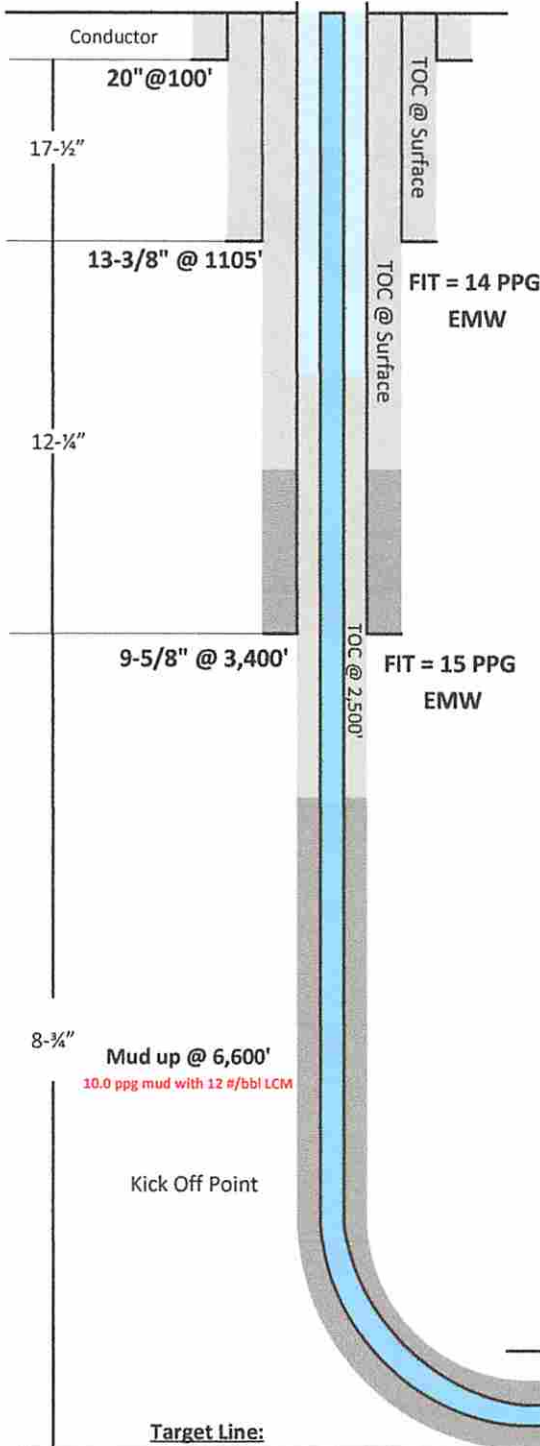
10 303 103

Wiley S GRN WZ 6H



AMERICAN ENERGY APPALACHIA

County, State:	Wetzel, West Virginia	Township:	Grant	Location:		Formation:	Marcellus
Coordinates:	SHL Lat/Long: 39.509301 N, 80.692027 W			RKB / Elevation:		AFE DC/CWC:	
NAD 27	BHL Lat/Long:					USDW:	Property #:
Rig:	Target Line: 7,277' TVD @ 0° VS, 89.5° Inc, 150 Azi				535'		AFE #:



Interval	Hole size (in)	Size (in)	Weight #/ft	Grade	Conn.	Collapse (PSI)	Burst (PSI)	Depth (ft)	Cost \$/ft
Conductor	26"	20"	-	-	-	-	-	100	-
Surface	17-1/2"	13-3/8"	54.5	J-55	BTC	1,130	2,740	1,105	36
Intermediate	12-1/4"	9-5/8"	36	J-55	LTC	2,020	3,520	3,400	22
Production	8-3/4"	5-1/2"	20	P-110	ULT-DQX	11,110	12,640	15,650	22

Interval	Slurry	Weight	Ft ³	Yeild	Excess	Cement Top
Conductor	Tail	15.6 ppg	330	1.20 cuft/sk	50%	Surface
	Lead	15.6 ppg	330	1.20 cuft/sk	50%	Surface
Surface	Tail	15.6 ppg	320	1.20 cuft/sk	50%	Surface
	Lead	15.6 ppg	320	1.20 cuft/sk	50%	Surface
Intermediate	Lead	13.5 ppg	250	1.51 cuft/sk	30%	Surface
	Tail	15.3 ppg	1150	1.27 cuft/sk	30%	700
Production	Lead	13.5 ppg	1000	1.51 cuft/sk	10%	2500
	Tail	15.3 ppg	1760	1.27 cuft/sk	10%	6300

Formation	TVD	Sub Sea
Freshwater	535'	653'
Pittsburgh Coal	1,065'	123'
Saltwater	1,315'	-127'
Big Injun	2,355'	-1,167'
Big Injun Base	2,555'	-1,367'
Berea	2,915'	-1,727'
Gordon	3,135'	-1,947'
Gordon Base	3,220'	-2,032'
Middlesex	6,852'	-5,664'
Geneseo	7,095'	-5,907'
Tully	7,123'	-5,935'
Hamilton	7,147'	-5,959'
Marcellus	7,235'	-6,047'
Purcell	7,242'	-6,054'
Lower Marcellus	7,244'	-6,056'
Basal Marcellus	7,267'	-6,079'
Onondaga	7,285'	-6,097'

8-3/4" Curve and Lateral | 5-1/2" Casing @ 15,650'

Target Line:

7,277' TVD @ 0° VS, 89.5° Inc, 150° Azi

AIR INTERVALS					SYNTHETIC OIL BASED MUD INTERVAL									
Interval	Depth (MD)	Rate (cfpm)	Water (bbl/hr)	Foamer (gal/hr)	Interval	Depth (MD)	Weight (#/gal)	Viscosity (sec/qt)	HTHP (ml/30min)	PV (cps)	YP (#/100 ft ²)	6 RPM	WPS ppm	OWR % by vol
Surface	0' - 1105'	>5000	30-50	1/2 - 3/4	Vertical	6,600' - 6,650'	10.0 - 10.5	50 - 60	4 - 6	18 - 24	10 - 12	6-9	150K - 200K	75:25 - 4:36
Intermediate	1105' - 3,400'	>5000	30-50	1/2 - 3/4	Curve	6,650' - 7,950'	10.5 - 13.5	50 - 60	4 - 6	18 - 24	10 - 12	6-9	150K - 200K	75:25 - 4:36
Vert/Nudge	3,400' - 6,600'	>5000	40-60	3/4 - 1	Lateral	7,950' - 15,650'	13.5 - 13.7	50 - 60	4 - 6	18 - 24	10 - 12	6-9	150K - 200K	75:25 - 4:36

06/20/2015

WW-9
(9/13)

10303103

API Number 47 - _____
Operator's Well No. Way S GRN WZ 6H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name American Energy - Marcellus, LLC OP Code 4945100500

Watershed (HUC 10) Fishing Creek Quadrangle Center Point

Elevation 1315' County Wetzel District Green

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Closed loop system no pits will be used

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number see attached sheet titled UIC Wells and Landfills)
- Reuse (at API Number next anticipated well)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: yes; see attached sheet titled Closed loop typical description

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

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

Additives to be used in drilling medium? see attached sheet titled drilling additives

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

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

-Landfill or offsite name/permit number? see attached sheet titled UIC Wells and Landfills

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

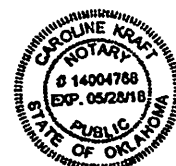
Company Official (Typed Name) American Energy - Marcellus, LLC

Company Official Title Regulatory Technician

Subscribed and sworn before me this 17TH day of February, 2015

Caroline Kraft Notary Public

My commission expires 05/29/2018



06/26/2015

UIC WELLS and Landfills

<u>Disposal Location</u>	<u>Type</u>	<u>Permit No.</u>
Wetzel County Landfill –	Landfill	SWF-1021/WV010985
Short Creek Landfill –	Landfill	SWP-1034/WV0109517
Brooke County –	Landfill	SWF-1013/WV0109029
Kemble -	UIC Well	34-119-2-8780-00-00
Elkhead-	UIC Well	34-157-2-5511-00-00
Kent Injection Well	UIC Well	34-119-2-7350-00-00
Moran Well	UIC Well	34-089-2-4412-00-00

Closed Loop Typical Description

A series of storage tanks that separate liquids and solids along with screen shakers, hydro cyclones, centrifuges and collection equipment (e.g., vacuum trucks, shale barges) may be on site. The wastes created are minimized and transferred off-site for disposal.

Drilling Additives

Air mist system additives are commonly; Drilling Foam, Drilling Soap, and occasionally Shale Stabilizer (KCI).

Synthetic Oil Based Additives

The base oil is the main ingredient, and it will run approx. 70% of the fluid volume, water will make up about 25%, the remaining 5% by volume will include a mixture of the following:

ANCO Gel

Cottonseed Hulls	Base Oil	Anco Thunder Plug
D294	Anco Mud Mod	Calcium Carbonate M
Anco Bar	Anco Mul OW	Cedar Fiber
Clayton	Anco Mul P	LCF Blend
Lime	Anco Mul S	Walnut Shell Med
Calcium Chloride	Anco Mul Thin	Anco Drill A
Anco Trol		

4710303103

WW-9
(9/13)

API Number 47 - _____
Operator's Well No. Wiley S GRN WZ 6H

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

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*DmH
3-14-15*

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

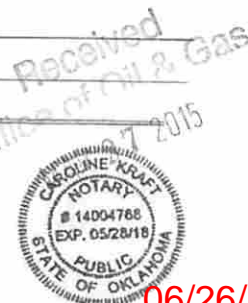
Company Official (Typed Name) American Energy - Marcellus, LLC

Company Official Title Regulatory Technician

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Caroline Kraft Notary Public

My commission expires 05/29/2018



06/26/2015

10 303 103

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Received
Office of Oil & Gas
MAR 12 2015

06/26/2015

UIC WELLS and Landfills

10303103

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Moran Well	UIC Well	34-089-2-4412-00-00

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Office of Oil & Gas
MAR 12 2015

06/26/2015

Form WW-9

Operator's Well No. Wiley S GRN WZ 6H

American Energy - Marcellus, LLC

Proposed Revegetation Treatment: Acres Disturbed 19.02 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch minimum of 2-3 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

See attached

See attached

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: Oil + Gas Inspector

Date: 3-19-15

Field Reviewed? Yes No

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Office of Oil & Gas
MAR 27 2015

Temporary and Permanent Seed Mix

250 lbs. /acre

Mix Details

Medium red clover	4%
Alsike clover	4%
Birds foot trefoil	5%
Forage tall fescue	45%
Forage perineal rye	20%
Annual rye	11%
Winter wheat	10%

Straw

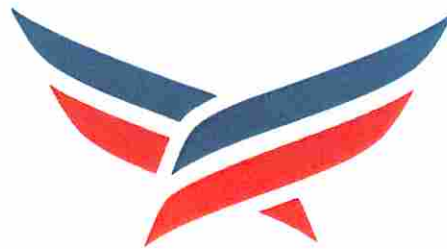
Winter – 3 ton per acre

Summer – 2 ton per acre

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Office of Oil & Gas
MAR 12 2015

Wiley N GRN WZ 1H, 3H, 5H & 7H

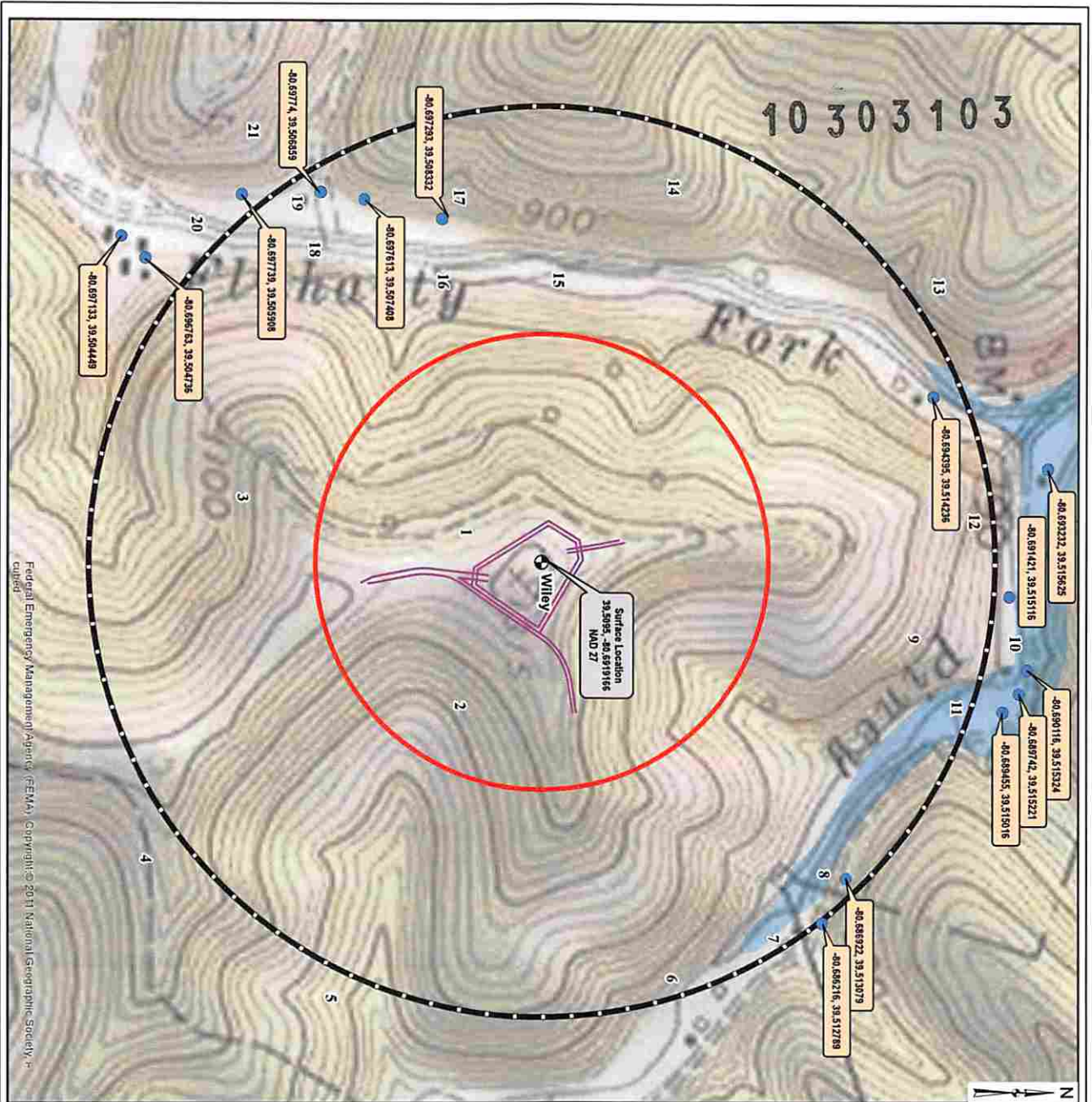
Wiley S GRN WZ 2H, 4H, 6H & 8H Site Safety Plan



AMERICAN ENERGY
MARCELLUS

DMH
3-14-15

Received
Office of Oil & Gas
MAR 27 2015



Federal Emergency Management Agency (FEMA) Copyright: © 2011 National Geographic Society, Inc.

PROPERTY ID	PARCEL NO.	OWNER	ADDRESS
1	01 20000000	WILEY WELLS	1111 WILEY WELLS
2	01 20000000	WILEY WELLS	1111 WILEY WELLS
3	01 20000000	WILEY WELLS	1111 WILEY WELLS
4	01 20000000	WILEY WELLS	1111 WILEY WELLS
5	01 20000000	WILEY WELLS	1111 WILEY WELLS
6	01 20000000	WILEY WELLS	1111 WILEY WELLS
7	01 20000000	WILEY WELLS	1111 WILEY WELLS
8	01 20000000	WILEY WELLS	1111 WILEY WELLS
9	01 20000000	WILEY WELLS	1111 WILEY WELLS
10	01 20000000	WILEY WELLS	1111 WILEY WELLS
11	01 20000000	WILEY WELLS	1111 WILEY WELLS
12	01 20000000	WILEY WELLS	1111 WILEY WELLS
13	01 20000000	WILEY WELLS	1111 WILEY WELLS
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15	01 20000000	WILEY WELLS	1111 WILEY WELLS
16	01 20000000	WILEY WELLS	1111 WILEY WELLS
17	01 20000000	WILEY WELLS	1111 WILEY WELLS
18	01 20000000	WILEY WELLS	1111 WILEY WELLS
19	01 20000000	WILEY WELLS	1111 WILEY WELLS
20	01 20000000	WILEY WELLS	1111 WILEY WELLS
21	01 20000000	WILEY WELLS	1111 WILEY WELLS

PROPERTY ID	PARCEL NO.	OWNER	ADDRESS
1	01 20000000	WILEY WELLS	1111 WILEY WELLS
2	01 20000000	WILEY WELLS	1111 WILEY WELLS
3	01 20000000	WILEY WELLS	1111 WILEY WELLS
4	01 20000000	WILEY WELLS	1111 WILEY WELLS
5	01 20000000	WILEY WELLS	1111 WILEY WELLS
6	01 20000000	WILEY WELLS	1111 WILEY WELLS
7	01 20000000	WILEY WELLS	1111 WILEY WELLS
8	01 20000000	WILEY WELLS	1111 WILEY WELLS
9	01 20000000	WILEY WELLS	1111 WILEY WELLS
10	01 20000000	WILEY WELLS	1111 WILEY WELLS
11	01 20000000	WILEY WELLS	1111 WILEY WELLS
12	01 20000000	WILEY WELLS	1111 WILEY WELLS
13	01 20000000	WILEY WELLS	1111 WILEY WELLS
14	01 20000000	WILEY WELLS	1111 WILEY WELLS
15	01 20000000	WILEY WELLS	1111 WILEY WELLS
16	01 20000000	WILEY WELLS	1111 WILEY WELLS
17	01 20000000	WILEY WELLS	1111 WILEY WELLS
18	01 20000000	WILEY WELLS	1111 WILEY WELLS
19	01 20000000	WILEY WELLS	1111 WILEY WELLS
20	01 20000000	WILEY WELLS	1111 WILEY WELLS
21	01 20000000	WILEY WELLS	1111 WILEY WELLS

- AEU Surface Location
- Access Road
- Streams and Rivers
- Water Well Location
- AEU Testing Radius (2000')
- WDEP Required Testing Radius (1000')
- Wetzel County Parcel Line
- 100 Year Flood Zones
- WW County Lines



ISSUE: EXHIBIT
 DATE: 02.18.2015
 DRAWN: CHD
 SHEET NO. 1



WATER SAMPLING FIELD MAP
WILEY WELL PAD
 WETZEL COUNTY, WV



NO.	DATE	DESCRIPTION

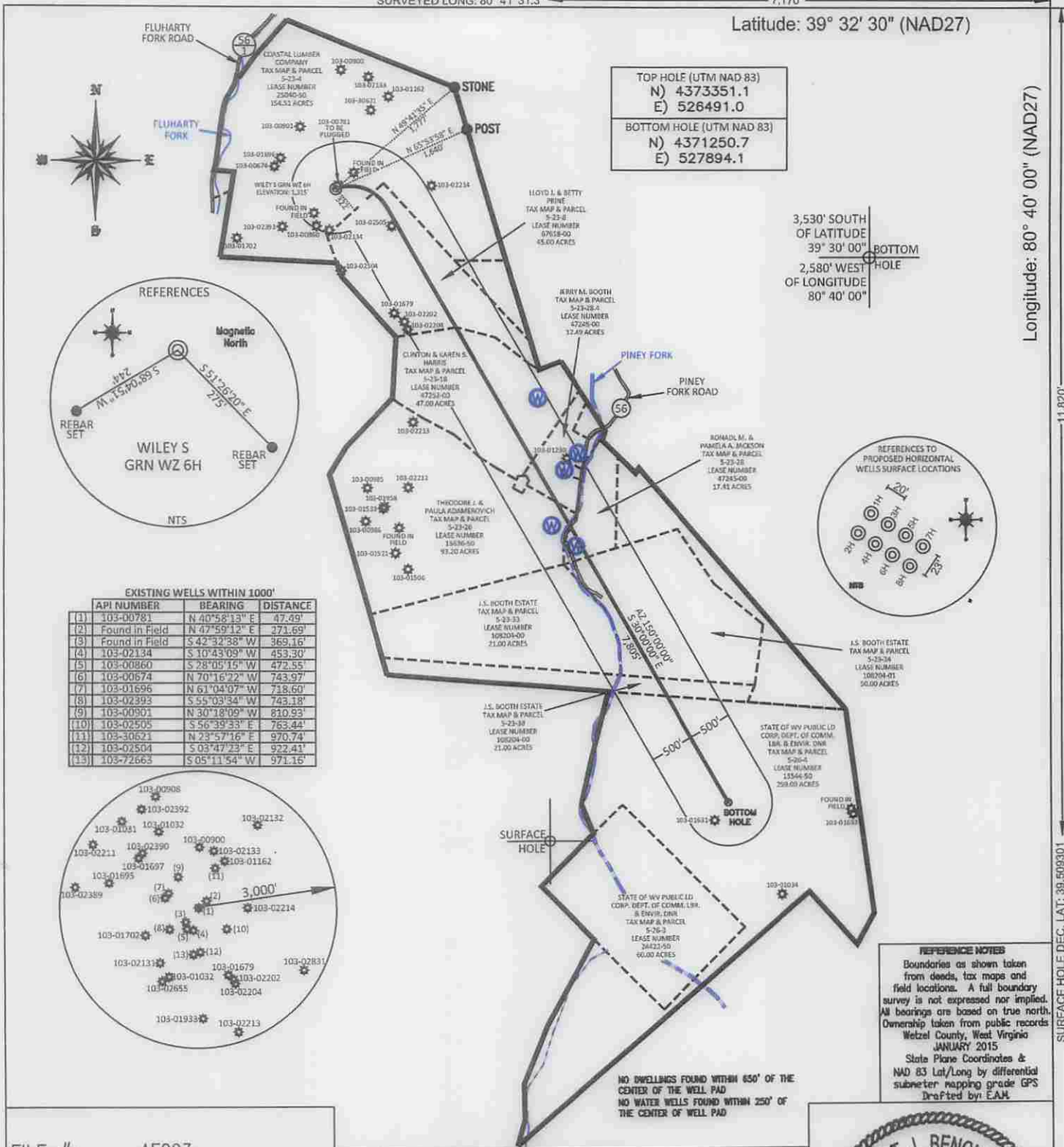
06/26/2015

SURFACE HOLE DEC. LONG: 80.692027
 SURVEYED LONG: 80° 41' 31.3"

7,170'

Latitude: 39° 32' 30" (NAD27)

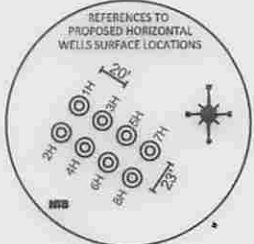
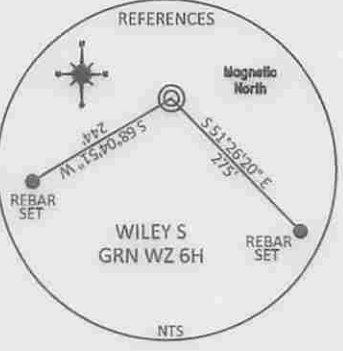
Longitude: 80° 40' 00" (NAD27)



TOP HOLE (UTM NAD 83)
 N) 4373351.1
 E) 526491.0

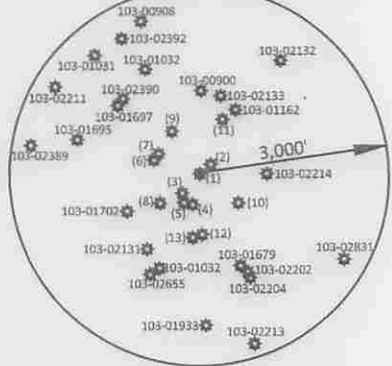
BOTTOM HOLE (UTM NAD 83)
 N) 4371250.7
 E) 527894.1

3,530' SOUTH OF LATITUDE 39° 30' 00"
 2,580' WEST OF LONGITUDE 80° 40' 00"
 BOTTOM HOLE



EXISTING WELLS WITHIN 1000'

API NUMBER	BEARING	DISTANCE
(1) 103-00781	N 40° 58' 13" E	47.49'
(2) Found in Field	N 47° 59' 12" E	271.69'
(3) Found in Field	S 42° 32' 38" W	369.16'
(4) 103-02134	S 10° 43' 09" W	453.30'
(5) 103-00860	S 28° 05' 15" W	472.55'
(6) 103-00674	N 70° 16' 22" W	743.97'
(7) 103-01696	N 61° 04' 07" W	738.60'
(8) 103-02393	S 55° 03' 34" W	743.18'
(9) 103-00901	N 30° 18' 09" W	810.93'
(10) 103-02505	S 56° 39' 33" E	763.44'
(11) 103-30621	N 23° 57' 16" E	970.74'
(12) 103-02504	S 03° 47' 23" E	922.41'
(13) 103-72663	S 05° 11' 54" W	971.16'



REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Wetzel County, West Virginia JANUARY 2015
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
 Drafted by: E.A.H.

NO DWELLINGS FOUND WITHIN 650' OF THE CENTER OF THE WELL PAD
 NO WATER WELLS FOUND WITHIN 250' OF THE CENTER OF WELL PAD

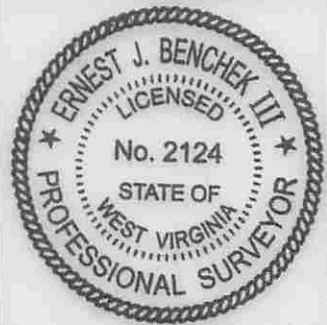
FILE #: AE003
 DRAWING #: 2485
 SCALE: PLAT - 1" = 1600'
 TICK MARK - 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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.

Signed: *[Signature]*
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: FISHING CREEK
 COUNTY/DISTRICT: WETZEL / GREEN
 SURFACE OWNER: COASTAL LUMBER COMPANY
 OIL & GAS ROYALTY OWNER:
 LEASE NUMBERS:

DATE: FEBRUARY 24, 2015
 OPERATOR'S WELL #: WILEY S GRN WZ 6H
 API WELL #: 47 / 103 / 03103 HGA
 STATE COUNTY PERMIT

ELEVATION: 1315' = Current
 1286.29' = Proposed
 QUADRANGLE: CENTER POINT, WV
 ACREAGE: 154.51 + / 06/26/2015
 629.61 + / -

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: TVD: 7,277' TMD: 15,650'
 WELL OPERATOR: American Energy-Marcellus LLC.
 ADDRESS: 3501 NW 63rd Street
 CITY: Oklahoma City STATE: OK ZIP CODE: 73116
 DESIGNATED AGENT: Eric B. Gillespie
 ADDRESS: 103 Taryn Lane
 CITY: Cross Lanes STATE: WV ZIP CODE: 25313

WW-6A1
(5/13)

Operator's Well No. Wiley S GRN WZ 6H

**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
-------------------------	-----------------------	-----------------------	---------	-----------

Please see attached.

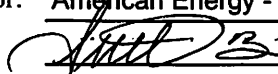
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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

Received
Office of Oil & Gas
MAR 12 2015

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: American Energy - Marcellus, LLC
By: 
Its: Regulatory Technician

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)

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American Energy - Marcellus, LLC is the record title owner of the leases identified herein. Listed below each lease is the applicable chain of title by which American Energy - Marcellus, LLC was vested with title thereto. Please note, throughout the chain of title, various mergers and name changes occurred between the referenced companies. In several instances, no documentation was filed in the county records evidencing such a merger or name change. In those cases, we've directed your attention to the records of the West Virginia Secretary of State, where said documentation can be found.

Tract No.	Fee/Lease No.	Lessor/Assignor	Lessee/Assignee	Royalty/Instrument	Book/Page		
1	25048-50	John R. McCoy et al	J.F. Guffey	1/8	48/445		
		J.F. Guffey	W.M. Graham	Assignment	56/286		
		W.M. Graham	W.H. Nimick	Assignment	56/288		
		W.H. Nimick	South Penn Oil Company	Assignment	49/268		
		South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/455		
		South Penn Natural Gas Company	South Penn Oil Company	Assignment	215/478		
		South Penn Oil Company	Pennzoil Company	Cert. of Name Change	WV Sec. of State records		
		Pennzoil Company	Pennzoil United, Inc.	Assignment	246/491		
		Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	WV Sec. of State records		
		Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577		
		Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384		
		Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177		
		PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278		
		Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580		
East Resources, Inc.	HG Energy, LLC	Assignment	118A/253				
East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238				
2	67618-00	Lloyd Joe Prine et ux	Pennzoil Company	1/8	68A/188		
		Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577		
		Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384		
		Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177		
		PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278		
		Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580		
		East Resources, Inc.	HG Energy, LLC	Assignment	118A/253		
		East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238		
		3	47252-00	George H. Stonestreet et ux	C.E. Beck	1/8	58A/177
				C.E. Beck	Pennzoil Company	Assignment	58A/229
Pennzoil Company	Pennzoil Products Company			Assn. & Supp. Assn.	319/397 & 322/577		
Pennzoil Products Company	Pennzoil Exploration and Production Company			Assignment	363/384		
Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.			Cert. of Merger	12/177		
PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.			Cert. of Merger	12/278		
Devon Energy Production Company, L.P.	East Resources, Inc.			Assignment	370/580		
East Resources, Inc.	HG Energy, LLC			Assignment	118A/253		
East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC			Assignment	153A/238		
4	47245-00			A. Carlos Booth	C.E. Beck	1/8	58A/119
		C.E. Beck	Pennzoil Company	Assignment	58A/229		
		Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577		
		Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384		
		Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177		
		PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278		
		Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580		
		East Resources, Inc.	HG Energy, LLC	Assignment	118A/253		
		East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238		
		5	15636-50	James A. and M.E. Booth	South Penn Oil Company	1/8	47/198
South Penn Oil Company	South Penn Natural Gas Company			Assignment	33A/455		
South Penn Natural Gas Company	South Penn Oil Company			Assignment	215/478		
South Penn Oil Company	Pennzoil Company			Cert. of Name Change	WV Sec. of State records		
Pennzoil Company	Pennzoil United, Inc.			Assignment	246/491		
Pennzoil United, Inc.	Pennzoil Company			Cert. of Name Change	WV Sec. of State records		
Pennzoil Company	Pennzoil Products Company			Assn. & Supp. Assn.	319/397 & 322/577		
Pennzoil Products Company	Pennzoil Exploration and Production Company			Assignment	363/384		
Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.			Cert. of Merger	12/177		
PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.			Cert. of Merger	12/278		
Devon Energy Production Company, L.P.	East Resources, Inc.			Assignment	370/580		
East Resources, Inc.	HG Energy, LLC			Assignment	118A/253		
East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC			Assignment	153A/238		
6	47245-00			A. Carlos Booth	C.E. Beck	1/8	58A/119
		C.E. Beck	Pennzoil Company	Assignment	58A/229		
		Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577		
		Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384		
		Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177		
		PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278		
		Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580		
		East Resources, Inc.	HG Energy, LLC	Assignment	118A/253		
		East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238		
		7	108204-00	Jerry M. Booth	HG Energy	1/8	136A/882
East Resources, Inc and HG Energy, Inc	American Energy - Marcellus, LLC			Assignment	153A/238		
8	108204-01	James K. Booth	HG Energy	1/8	136A/885		
		East Resources, Inc and HG Energy, Inc	American Energy - Marcellus, LLC	Assignment	153A/238		
9	108204-00	Jerry M. Booth	HG Energy	1/8	136A/882		

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		East Resources, Inc and HG Energy, Inc	American Energy - Marcellus, LLC	Assignment	153A/238
10	15544-50	Geo. V. and Josephine M. Rolly	South Penn Oil Company	1/8	47/34
		South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/455
		South Penn Natural Gas Company	South Penn Oil Company	Assignment	215/478
		South Penn Oil Company	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
		Pennzoil Company	Pennzoil United, Inc.	Assignment	248/491
		Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
		Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577
		Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
		Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
		PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
		Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
		East Resources, Inc.	HG Energy, LLC	Assignment	118A/253
		East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
11	24422-50	Henry and Mary Notland	W.R. McIntyre	1/8	46/93
		W.R. McIntyre	South Penn Oil Company	Assignment	17A/450
		South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/455
		South Penn Natural Gas Company	South Penn Oil Company	Assignment	215/478
		South Penn Oil Company	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
		Pennzoil Company	Pennzoil United, Inc.	Assignment	248/491
		Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
		Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577
		Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
		Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
		PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
		Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
		East Resources, Inc.	HG Energy, LLC	Assignment	118A/253
		East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238

06/26/2015



AMERICAN ENERGY
UTICA

10 303 103

February 13, 2015

West Virginia Department of Environmental Protection
Chief, Office of Oil & Gas
Attn: Mr. James Martin
601 57th Street
Charleston, West Virginia 25304

Re: Application for a Permit to Drill
Wiley S GRN WZ 6H

Dear Mr. Martin,

American Energy – Marcellus, LLC has the right to drill, extract and produce the minerals from any roads crossed by the proposed laterals for the Wiley S GRN WZ 6H well by virtue of the lease identified on page WW-6A1 of the accompanying permit application.

No action on your part is required. If you have any questions or concerns, please feel free to contact me.

Best Regards,

Ariel Bravo
Regulatory Technician
ariel.bravo@aep-lp.com
Cell 405-403-4803
Office 405-607-5529

Received
Office of Oil & Gas
MAR 12 2015

06/26/2015

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

10 303 103

Date of Notice Certification: 02/18/2015

API No. 47- _____

Operator's Well No. Wiley S GRN WZ 6H

Well Pad Name: Wiley GRN WZ

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>West Virginia</u>	UTM NAD 83	Easting: <u>526491</u>
County: <u>Wetzel</u>		Northing: <u>4373351.1</u>
District: <u>Green</u>	Public Road Access: <u>CR 13 CR 13/3 and CR 13/8</u>	
Quadrangle: <u>Center Point</u>	Generally used farm name: _____	
Watershed: <u>Fishing Creek</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 align="center">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:

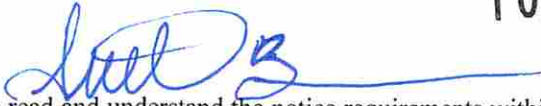
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

Received
Office of Oil & Gas
MAR 19 2015

06/26/2015

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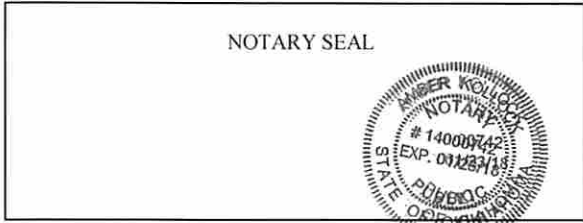
Certification of Notice is hereby given:



THEREFORE, I Ariel Bravo, 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: American Energy - Marcellus, LLC
By: Ariel Bravo
Its: Regulatory Technician
Telephone: 405-607-5529

Address: 301 NW 63rd, Suite 600
Oklahoma City, OK 73116
Facsimile: 405-607-5868
Email: ariel.bravo@aep-lp.com



Subscribed and sworn before me this 18 day of February.

Amber Kollmann Notary Public

My Commission Expires 01/23/2018

Oil and Gas Privacy Notice:

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

Received
Office of Oil & Gas
MAR 12 2015

**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: 2/17/2015 **Date Permit Application Filed:** 3/2/2015

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: Please see attached.
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Please see attached.
Address: _____

COAL OPERATOR

Name: Consol Energy
Address: 6126 Energy Road
Moundsville, WV 26041

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: Please see attached.
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

Office of Oil & Gas
MAR 12 2015

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. ~~However, if granted a~~ ~~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

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.**

Received
Office of Oil & Gas
MAR 12 2015

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.

Received
Office of Oil & Gas
MAR 12 2015

06/26/2015



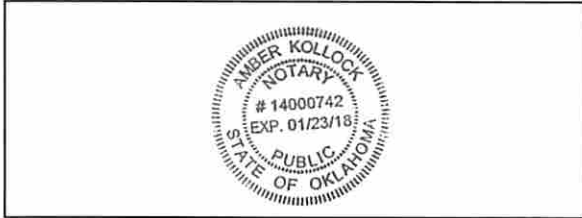
Notice is hereby given by:

Well Operator: American Energy - Marcellus, LLC
Telephone: 405-607-5529
Email: ariel.bravo@aep-lp.com


Address: 301 NW 63RD, Suite 600
Oklahoma City, OK 73116
Facsimile: 405-607-5868

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.

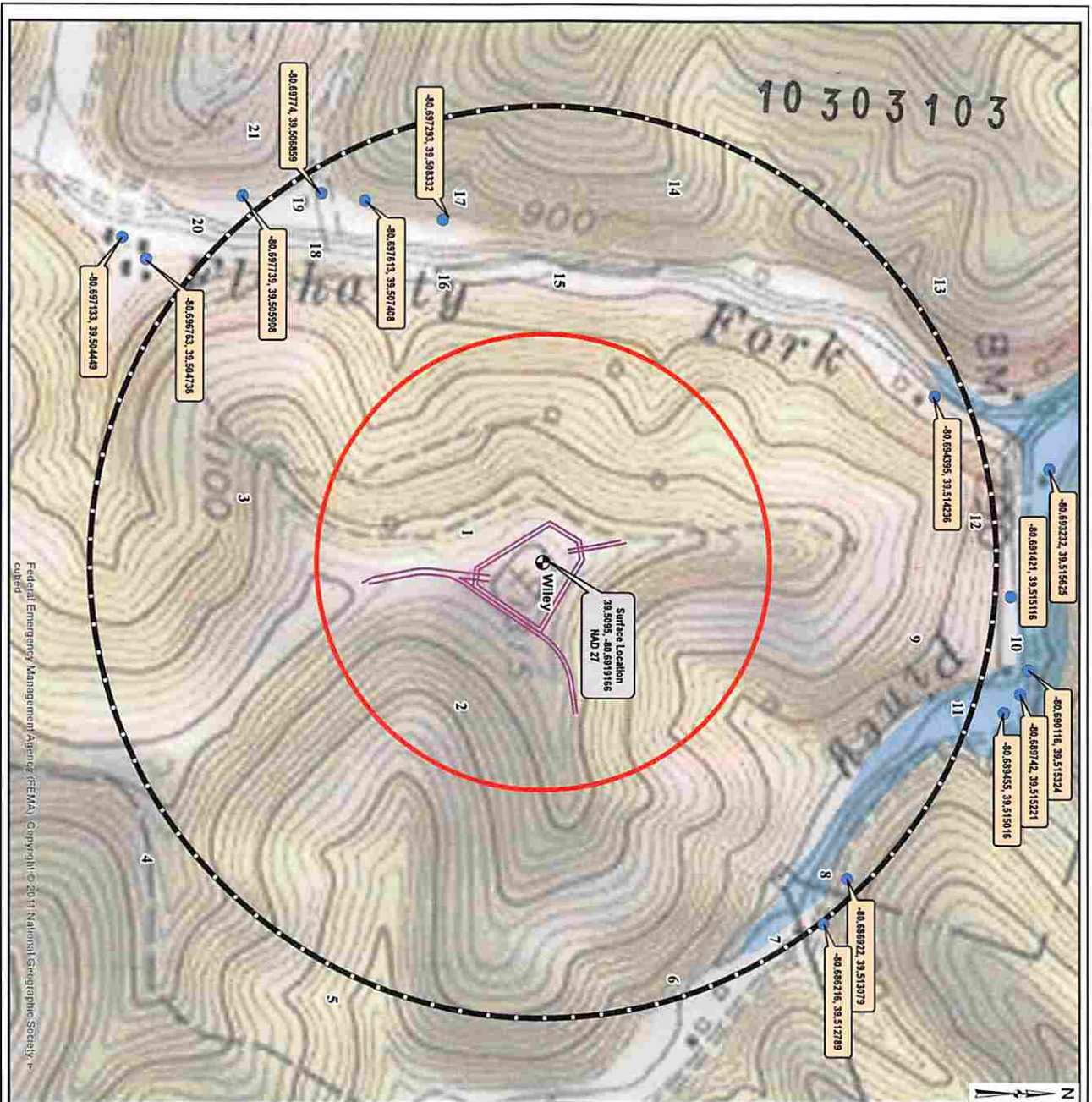


Subscribed and sworn before me this 17 day of February, 2015.

 Notary Public

My Commission Expires 01/23/18

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PROPERTY NO.	PARCEL NO.	OWNER	ADDRESS
1	03 2300000001	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
2	03 2300000002	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
3	03 2300000003	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
4	03 2300000004	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
5	03 2300000005	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
6	03 2300000006	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
7	03 2300000007	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
8	03 2300000008	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
9	03 2300000009	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
10	03 2300000010	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
11	03 2300000011	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
12	03 2300000012	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
13	03 2300000013	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
14	03 2300000014	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
15	03 2300000015	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
16	03 2300000016	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
17	03 2300000017	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
18	03 2300000018	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
19	03 2300000019	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
20	03 2300000020	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY
21	03 2300000021	WEST VIRGINIA DISTRIBUTION WATER WELLS	1000 WETZEL COUNTY

PROPERTY NO.	ADJACENT PARCEL NO.	ADJACENT OWNER
1	03 2300000001	WEST VIRGINIA DISTRIBUTION WATER WELLS
2	03 2300000002	WEST VIRGINIA DISTRIBUTION WATER WELLS
3	03 2300000003	WEST VIRGINIA DISTRIBUTION WATER WELLS
4	03 2300000004	WEST VIRGINIA DISTRIBUTION WATER WELLS
5	03 2300000005	WEST VIRGINIA DISTRIBUTION WATER WELLS
6	03 2300000006	WEST VIRGINIA DISTRIBUTION WATER WELLS
7	03 2300000007	WEST VIRGINIA DISTRIBUTION WATER WELLS
8	03 2300000008	WEST VIRGINIA DISTRIBUTION WATER WELLS
9	03 2300000009	WEST VIRGINIA DISTRIBUTION WATER WELLS
10	03 2300000010	WEST VIRGINIA DISTRIBUTION WATER WELLS
11	03 2300000011	WEST VIRGINIA DISTRIBUTION WATER WELLS
12	03 2300000012	WEST VIRGINIA DISTRIBUTION WATER WELLS
13	03 2300000013	WEST VIRGINIA DISTRIBUTION WATER WELLS
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17	03 2300000017	WEST VIRGINIA DISTRIBUTION WATER WELLS
18	03 2300000018	WEST VIRGINIA DISTRIBUTION WATER WELLS
19	03 2300000019	WEST VIRGINIA DISTRIBUTION WATER WELLS
20	03 2300000020	WEST VIRGINIA DISTRIBUTION WATER WELLS
21	03 2300000021	WEST VIRGINIA DISTRIBUTION WATER WELLS

- AEU Surface Location
- Access Road
- Streams and Rivers
- Water Well Location
- AEU Testing Radius (2000')
- WADP Required Testing Radius (1000')
- Wetzel County Parcel Line
- 100 Year Flood Zones
- WV County Lines



ISSUE
EXHIBIT
DATE: 02.18.2015
JOB NO.:
DRAWN: CHD
SHEET NO.: 1



WATER SAMPLING FIELD MAP

WILEY WELL PAD
WETZEL COUNTY, WV



REVISION NO.	DATE	DESCRIPTION

06/26/2015

Surface Owners						
Wiley N GRN WZ 1H, 3H, 5H & 7H						
Wiley S GRN WZ 2H, 4H, 6H & 8H						
First	Last	Address	City	State	Zip	
Theodore J. & Paula	Adamerovich	131 Charles Houck Rd	Latrobe	PA	15650	
William B. & Sarah E.	Bassett	HC 79 Box 55	Jacksonburg	WV	26377	
Jerry Martin	Booth	125 Hiddenwood Acres	Wellsburg	WV	26070	
Michael R.	Clayton	HC 60 Box 330	Pine Grove	WV	26419	
Cecil & Eileen	Fisher	4526 Piney Fork Road	Pine Grove	WV	26419	
Clinton & Karen S.	Harris	PO Box 374	Reader	WV	26167	
Stanford	Haught	HC 60 Box 295	Reader	WV	26167	
Patrick	Ice	4076 Piney Fork Road	Pine Grove	WV	26419	
Ronald & Pamela	Jackson	PO Box 107	Reader	WV	26155	
Robert	McEldowney	1560 Hampton Road	Charleston	WV	25314	
Bradley Cole	Morison	PO Box 405	Reader	WV	26155	
Timmy A. & Darlene	Morris	HC 60 Box 294	Reader	WV	26167	
Lloyd J. & Betty	Prine	300 Kanawha Ave	Nitro	WV	25143	
Robert B.	Wayne	HC 60 Box 315	Pine Grove	WV	26419	
Debra & Doug	Williamson	3406 Mud Fork Rd	Verdunville	WV	25849	
	Coastal Lumber Company	P.O. Box 709	Buckhannon	WV	26201	
	Elizabeth Miller Estate	PO Box 508	Wellsburg	WV	26070	
	American Energy - Marcellus, LLC	P.O. Box 18756	Oklahoma City	OK	73154	
	Isreal Miller Estate	PO Box 508	Wellsburg	WV	26070	
	J.S. Booth Estate	283 Gardner Ave	Weirton	WV	26062	
	Penzoil Product Co.	PO Box 5519	Vienna	WV	26105	
WV State of Commerce Bureau of Natural Resources Div.	Public	1900 Kanawha Blvd. East, Bldg 3, Rm 643	Charleston	WV	25303	
WV Dept. of Natural Resources Commerce Division		1900 Kanawha Blvd. East, Bldg 6, Rm 525	Charleston	WV	25303	

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 MAR 12 2015

10 303 103

Coal Owners						
First	Last	Address	City	State	Zip	
Wiley N GRN WZ 1H, 3H, 5H & 7H						
Wiley S GRN WZ 2H, 4H, 6H & 8H						
Heirs or devisees of Guy H. McCoy	C/O Susan Toth	205 Holly Dirve	Southport	NC	28461	
Karen Lynn	Eversman	2041 W. Reserve Circle	Avon	OH	44011	
Betty Ann Glen	Eversman	112 Rebel Run Road	Crossville	TN	38558	
Gary Steven	McCoy	PO Box 669	Glendora	CA	91740	
Dale	McCoy	1430 Mariners Dr.	Newport Beach	CA	93660	
Stephen	McCoy	215 West Normal St. #102	Houston	TX	77009	
William	McCoy	200 Catherine Street	Sistersville	WV	26175	
Flo	McCoy	PO Box 462	Southern Pines	NC	28388	
Jean E.	McCoy	1095 Central Drive	Southern Pines	NC	28387	
William J.	McCoy	5907 Willow Creek Way	Richmond	VA	23225	
Coal Operator						
Wiley N GRN WZ 1H, 3H, 5H & 7H						
Wiley S GRN WZ 2H, 4H, 6H & 8H						
Consol Energy		6126 Energy Road	Moundsville	WV	26041	

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MAR 12 2015

Water Owners

Wiley N GRN WZ 1H, 3H, 5H & 7H
 Wiley S GRN WZ 2H, 4H, 6H & 8H

First	Last	Address	City	State	Zip
Angie, Katie & Joseph	Bassett	4848 Piney Fork Road	Pine Grove	WV	26419
William B. & Sarah E.	Bassett	809 Right Hand Road	Pine Grove	WV	26419
Cecil & Eileen	Fisher	4572 Piney Fork Road	Pine Grove	WV	26419
Mark & Jacob & Shaune & Logan	Fisher	HC 60 Box 301	Reader	WV	26167
Francis & Patricia	Fuhrarty	HC 60 Box 286	Pine Grove	WV	26419
Rick & Kathrilla	Fuhrarty	HC 60 Box 293	Pine Grove	WV	26419
Patsy	Hall	586 Right Hand Road	Pine Grove	WV	26419
Clinton & Karen S.	Harris	PO Box 374	Reader	WV	26167
Robert	McEldowney	1560 Hampton Road	Charleston	WV	25314
Timmy A. & Darlene	Morris	HC 60 Box 294	Reader	WV	26167
Lloyd J. & Betty	Prine	300 Kanawha Ave	Nitro	WV	25143
Carole	Stackpole	660 Right Hand Road	Pine Grove	WV	26419
Robert B.	Wayne	5124 Piney Fork Road	Pine Grove	WV	26419
	Coastal Lumber Company	P.O. Box 709	Buckhannon	WV	26201
	Elizabeth Miller Estate	PO Box 508	Wellsburg	WV	26070
	Isreal Miller Estate	PO Box 508	Wellsburg	WV	26070

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 MAR 12 2015

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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: 2/17/2015 **Date of Planned Entry:** 2/25/2015

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Please see attached.
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Please see attached.
Address: _____

MINERAL OWNER(s)

Name: Please see attached.
Address: _____

*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: West Virginia
 County: Wetzel
 District: Green
 Quadrangle: Center Point

Approx. Latitude & Longitude: N 4373351.1/E 526491
 Public Road Access: CR 13. CR 13/3 and CR 13/8
 Watershed: Fishing Creek
 Generally used farm name: _____

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, 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: American Energy - Marcellus, LLC
 Telephone: 405-607-5529
 Email: ariel.bravo@aep-lp.com

Address: 301 NW 63rd, Suite 600
Oklahoma City, OK 73116
 Facsimile: 405-607-5868

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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Surface Owners						
Wiley N GRN WZ 1H, 3H, 5H & 7H						
Wiley S GRN WZ 2H, 4H, 6H & 8H						
First	Last	Address	City	State	Zip	
Theodore J. & Paula	Adamerovich	131 Charles Houck Rd	Latrobe	PA	15650	
William B. & Sarah E.	Bassett	HC 79 Box 55	Jacksonburg	WV	26377	
Jerry Martin	Booth	125 Hiddenwood Acres	Wellsburg	WV	26070	
Michael R.	Clayton	HC 60 Box 330	Pine Grove	WV	26419	
Cecil & Eileen	Fisher	4526 Piney Fork Road	Pine Grove	WV	26419	
Clinton & Karen S.	Harris	PO Box 374	Reader	WV	26167	
Stantford	Haught	HC 60 Box 295	Reader	WV	26167	
Patrick	Ice	4076 Piney Fork Road	Pine Grove	WV	26419	
Ronald & Pamela	Jackson	PO Box 107	Reader	WV	26155	
Robert	McEldowney	1560 Hampton Road	Charleston	WV	25314	
Bradley Cole	Morison	PO Box 405	Reader	WV	26155	
Timmy A. & Darlene	Morris	HC 60 Box 294	Reader	WV	26167	
Lloyd J. & Betty	Prine	300 Kanawha Ave	Nitro	WV	25143	
Robert B.	Wayne	HC 60 Box 315	Pine Grove	WV	26419	
Debra & Doug	Williamson	3406 Mud Fork Rd	Verdunville	WV	25649	
	Coastal Lumber Company	P.O. Box 709	Buckhannon	WV	26201	
	Elizabeth Miller Estate	PO Box 508	Wellsburg	WV	26070	
	American Energy - Marcellus, LLC	P.O. Box 18756	Oklahoma City	OK	73154	
	Isreal Miller Estate	PO Box 508	Wellsburg	WV	26070	
	J.S. Booth Estate	233 Gardner Ave	Weirton	WV	26062	
	Penzoil Product Co.	PO Box 5519	Vienna	WV	26105	
WV State of Commerce Bureau of Natural Resources Div.	Public	1900 Kanawha Blvd. East, Bldg 3, Rm 643	Charleston	WV	25303	
WV Dept. of Natural Resources Commerce Division		1900 Kanawha Blvd. East, Bldg 6, Rm 525	Charleston	WV	25303	

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Coal Owners						
First	Last	Address	City	State	Zip	
Wiley N GRN WZ 1H, 3H, 5H & 7H						
Wiley S GRN WZ 2H, 4H, 6H & 8H						
Heirs or devisees of Guy H. McCoy	C/O Susan Toth	205 Holly Dirve	Southport	NC	28461	
Karen Lynn	Eversman	2041 W. Reserve Circle	Avon	OH	44011	
Betty Ann Glen	Eversman	112 Rebel Run Road	Crossville	TN	38558	
Gary Steven	McCoy	PO Box 669	Glendora	CA	91740	
Dale	McCoy	1430 Mariners Dr.	Newport Beach	CA	93660	
Stephen	McCoy	215 West Normal St. #102	Houston	TX	77009	
William	McCoy	200 Catherine Street	Sistersville	WV	26175	
Flo	McCoy	PO Box 462	Southern Pines	NC	28388	
Jean E.	McCoy	1095 Central Drive	Southern Pines	NC	28387	
William J.	McCoy	5907 Willow Creek Way	Richmond	VA	23225	
Coal Operator						
Wiley N GRN WZ 1H, 3H, 5H & 7H						
Wiley S GRN WZ 2H, 4H, 6H & 8H						
Consol Energy		6126 Energy Road	Moundsville	WV	26041	

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MAR 12 2015

Mineral Owners					
Wiley N GRN WZ 1H, 3H, 5H & 7H					
Wiley S GRN WZ 2H, 4H, 6H & 8H					
First	Last	Address	City	State	Zip
Diana L. Craig	a/k/a Diana Allensworth	242 Westview Ave	Hubbard	OH	44425
Sheldon	Anderson	1304 20th ST	Vienna	WV	26105
Edna M.	Booth	Box 165	East Springfield	OH	43925
Jimmie O.	Booth	PO Box 177 East	Springfield	OH	45501
James Keith	Booth	RR 43 Box 177E	Steubenville	OH	26062
Jerry Martin	Booth	1125 Lincoln Ave	Wellsburg	WV	26070
A. Carlos	Booth	125 Hiddenwood Acres	Weirton	WV	26062
Dana Virginia	Booth	223 Gardner AVE	Weirton	WV	26062
Suzanne	Brossett	330 Foundry St.	New Martinsville	WV	26155
Angie & Katie Bassett Life Estate	C/O Joseph Bassett	HC 60 Box 303	Pine Grove	WV	26419
Harold C. Neely	C/O June Neely Andrews	821 Austin Dr.	Saint Albans	WV	25177
Julia D.	King	4606 Virginia Ave SE	Charleston	WV	25304
William J.	McCoy	5907 Willow Creek Way	Richmond	VA	23225
William H.	McCoy	200 Catherine St.	Sistersville	WV	26175
James R.	Moore	19 Marcella Ave	Tridelfia	WV	26059
Lloyd Joe and Betty	Prine	300 Kawawha Ave.	Nitro	WV	25143
Evelyn Leulla Miller	Tokas	911 Rabbit Hill Rd	Wellburg	WV	26070
Rudy G.	Yost	Rt 2 Box 176	New Martinsville	WV	26155
	Coastal Lumber Company	28 Rose St Lot 17S	Buckhannon	WV	26201
	Shiben Estates, Inc.	PO Box 246	New Martinsville	WV	26155
	The State of West Virginia, Public Land Corporation, for the use and benefit of the Department of Commerce, Labor and Environmental Resources, Division of	269 Main Street	Charleston	WV	25303
		1900 Kanawha Blvd East, Bldg 3, Rm 643			

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Office of Oil & Gas
MAR 12 2015

STATE OF WEST VIRGINIA 10303103
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**
Date of Notice: 02/18/2015 **Date Permit Application Filed:** 03/02/2015

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

- | | |
|--|-------------------------------|
| <input checked="" type="checkbox"/> CERTIFIED MAIL | <input type="checkbox"/> HAND |
| RETURN RECEIPT REQUESTED | DELIVERY |

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>Please see attached.</u>	Name: _____
Address: _____	Address: _____
_____	_____

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>526491</u>
County: <u>Wetzel</u>		Northing: <u>4373351.1</u>
District: <u>Green</u>	Public Road Access: <u>CR 13. CR 13/3 and CR 13/8</u>	
Quadrangle: <u>Center Point</u>	Generally used farm name: _____	
Watershed: <u>Fishing Creek</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: <u>American Energy - Marcellus, LLC</u>	Address: <u>301 NW 63rd, Suite 600</u>
Telephone: <u>405-607-5529</u>	<u>Oklahoma City, OK 73116</u>
Email: <u>ariel.bravo@aep-tp.com</u>	Facsimile: <u>405-607-5868</u>

Oil and Gas Privacy Notice:

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Wiley S GRN WZ 2H, 4H, 6H & 8H						
First	Last	Address	City	State	Zip	
Theodore J. & Paula	Adamovich	131 Charles Houck Rd	Latrobe	PA	15650	
William B. & Sarah E.	Bassett	HC 79 Box 55	Jacksonburg	WV	26377	
Jerry Martin	Booth	125 Hiddenwood Acres	Wellsburg	WV	26070	
Michael R.	Clayton	HC 60 Box 330	Pine Grove	WV	26419	
Cecil & Eileen	Fisher	4526 Piney Fork Road	Pine Grove	WV	26419	
Clinton & Karen S.	Harris	PO Box 374	Reader	WV	26167	
Staniford	Haught	HC 60 Box 295	Reader	WV	26167	
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Ronald & Pamela	Jackson	PO Box 107	Reader	WV	26155	
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Lloyd J. & Betty	Prine	300 Kanawha Ave	Nitro	WV	25143	
Robert B.	Wayne	HC 60 Box 315	Pine Grove	WV	26419	
Debra & Doug	Williamson	3406 Mud Fork Rd	Verdunville	WV	25649	
	Coastal Lumber Company	P.O. Box 709	Buckeen hanna	WV	26201	
	Elizabeth Miller Estate	PO Box 508	Wellsburg	WV	26070	
	American Energy - Marcellus, LLC	P.O. Box 18756	Oklahoma City	OK	73154	
	Isreal Miller Estate	PO Box 508	Wellsburg	WV	26096	
	J.S. Booth Estate	283 Gardner Ave	Weirton	WV	26062	
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Office of Oil & Gas
MAR 12 2015



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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

March 6, 2015

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 site Wiley South (501) Pad, Tyler County

Wiley S GRN WZ 2H
Wiley S GRN WZ 8H

Wiley S GRN WZ 4H

Wiley S GRN WZ 6H

Dear Mr. Martin,

This well site will be accessed from a DOH permit 06-2014-0834 which has been applied for by American Energy – Marcellus, LLC for access to the State Road. The well site is located off of Tyler County Route 13/8.

This 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: Eric Bruckman
American Energy - Marcellus, LLC.
CH, OM, D-6
File

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Southpoint, PA 15317 Phone: 724-746-1055
Engineering, Surveying, Construction,
and Mining Services

BOARD, BENCHEK and ASSOC., INC.

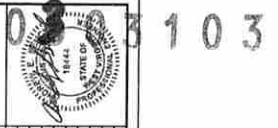
EVACUATION ROUTE/PREVAILING WIND

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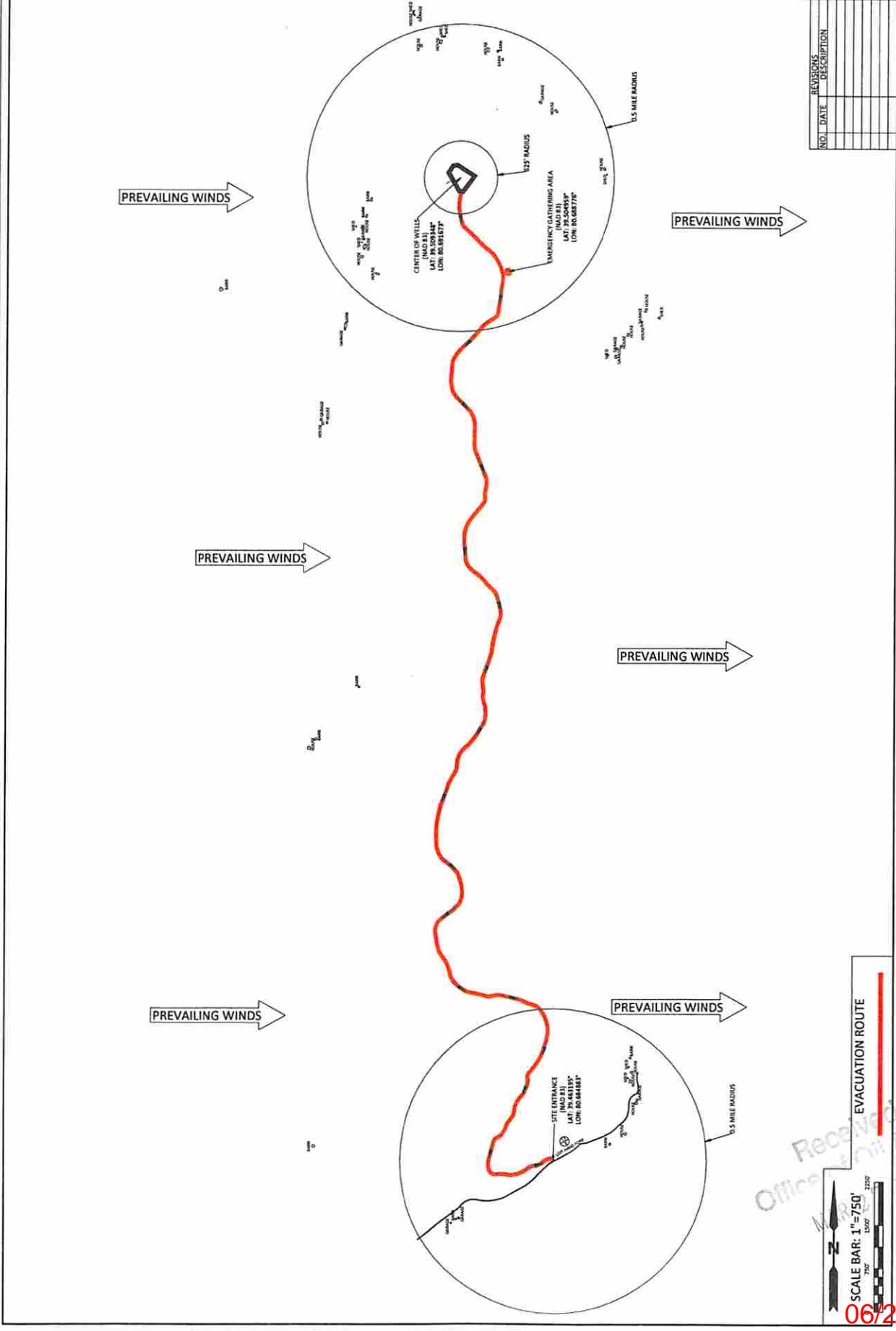
DATE:
FEBRUARY 2015

WILEY GRN WZ WELL
PAD

GREEN & WELLS
DISTRICTS,
WETZEL & TYLER
COUNTIES, WV



NO.	DATE	REVISIONS	DESCRIPTION



Received
Office of Oil & Gas
MAR 2015

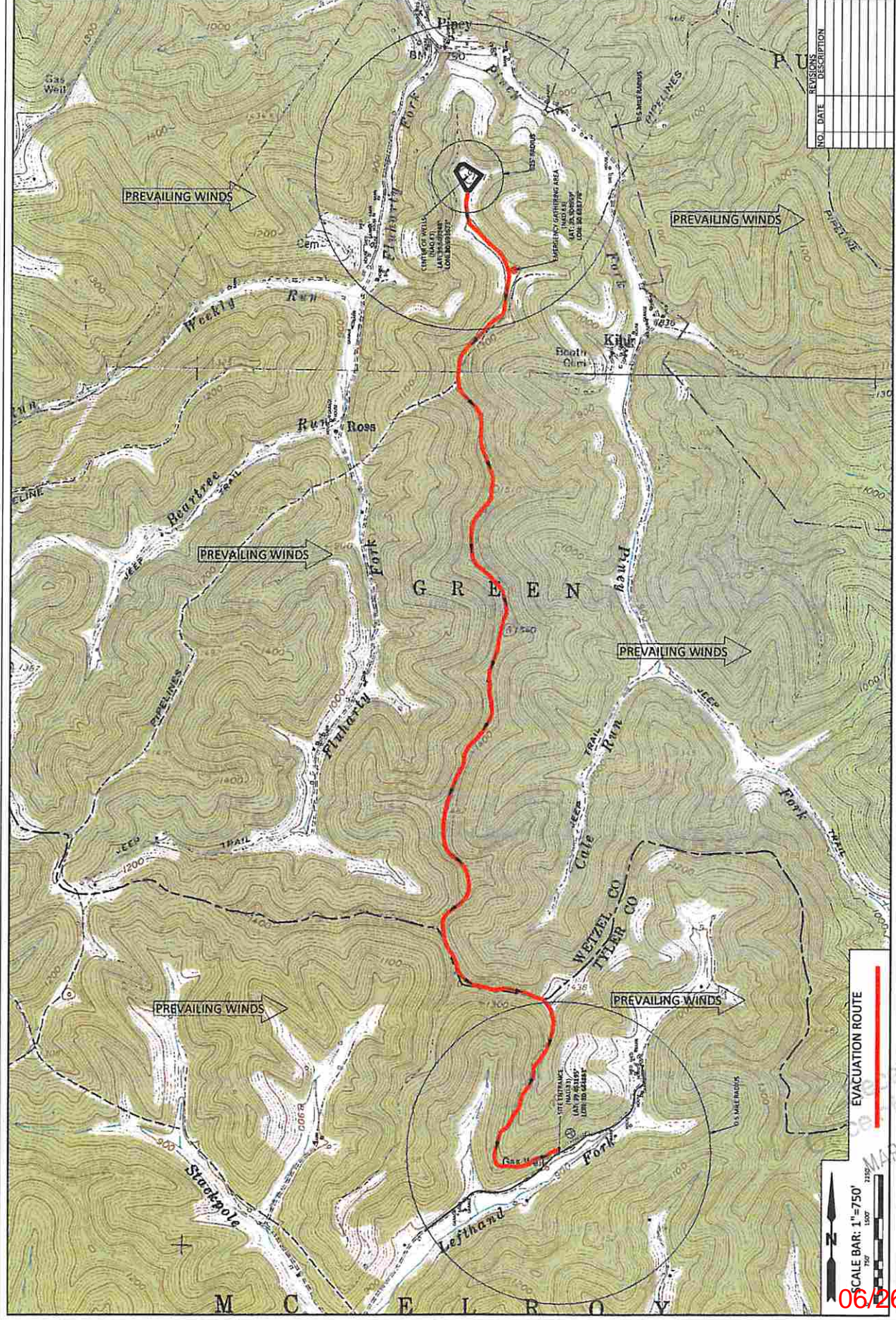
06/26/2015



DATE: FEBRUARY 2015
WILEY GRN WZ WELL PAD 477103

EVACUATION ROUTE/PREVAILING WIND

THIS DOCUMENT WAS PREPARED BY:
BOARD, BENCHK AND ASSOC., INC.
FOR: AMERICAN ENERGY MARCELLUS, LLC.
Soudersville, PA 15317 Phone: 724-746-1055
Engineering, Surveying, Construction,
and Mining Services



NO.	DATE	DESCRIPTION

EVACUATION ROUTE

SCALE BAR: 1"=750'

06/26/2015

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