



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

December 15, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10303121, issued to ASCENT RESOURCES-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 12HU
Farm Name: COASTAL LUMBER COMPANY

API Well Number: 47-10303121

Permit Type: Horizontal 6A Well

Date Issued: 12/15/2015

Promoting a healthy environment.

12/18/2015

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). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API: 10303121



* Pad was previously approved
w/ order issued to AEM.
AEM transferred new application
to Ascent (name change).
Construction plans have not changed!
TB 12/15/15

west virginia department of environmental protection

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

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

**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.

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:

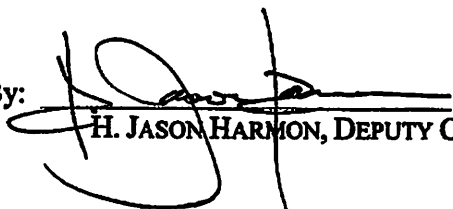
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least two feet (2') in height;
- b. Filter/silt socks and erosion control blankets shall be installed on all slopes and down gradient locations of the pad and topsoil 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

Order No. 2015-W-6
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Wetland Waiver Request

API Number 10 303 102 Well Number Wiley N GRN WZ 5H
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.

12/18/2015

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.



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street, SE Charleston, WV 25304
(304)926-0499, Ext 1656

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

September 3, 2015

47 103 03 121

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-103-03121

COMPANY: American-Energy-Marcellus LLC

FARM: Wiley S GRN WZ 12HU

COUNTY: Wetzel DISTRICT: Green QUAD: Pine Grove

The deep well review of the application for the above company is **APPROVED TO DRILL TO UTICA WITH A UTICA COMPLETION.**

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1. Comments to Notice of Deviation filed? none
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells, well name, and the name and address of the operator; none
4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Cindy Raines
Executive Assistant

CERTIFICATE OF CONSENT AND EASEMENT

We, the undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being all the owners of the surface of that certain lot, tract or parcel of land located in Green District, Wetzel County, State of West Virginia, shown on the attached plat or survey, or hereby consent and grant an easement, pursuant to West Virginia Code, Section 22C-9-7(b) (4) and Operating Rule 4.4 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to American Energy - Marcellus, LLC, its successors or assigns, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached plat or survey.

Executed this 10TH day of JUNE, 2015.

Edward G. Kravink
VICE PRESIDENT
COASTAL TIMBERLANDS COMPANY

STATE OF WEST VIRGINIA

COUNTY OF Upshur To-Wit

I, Anita C. White, a Notary Public in and for the aforesaid County and State, do hereby certify that Edward G. Kravink whose name is signed to the writing above, bearing date on the 10th day of June, 2015, has this day acknowledged the same before me, in my said County and State.

Given under my hand this 10th day of June, 2015.

Anita C. White

My Commission expires on: 3/21/2020



This instrument prepared by:
WV Oil and Gas Conservation Commission
601 57th Street
Charleston, WV 25304

CONSIDERATION VALUE \$0.00

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

1) Well Operator: Ascent Resources-Marcellus 494514693 Wetzel Green Center Point
Operator ID County District Quadrangle

2) Operator's Well Number: Wiley S GRN WZ 12HU 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

Michael Daff
12-3-15

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Utica, Approximate TVD Pilot hole 12750', Horizontal 12471', approximate thickness 100', +/- 11500 psi

8) Proposed Total Vertical Depth: 12471' **RECEIVED**
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9) Formation at Total Vertical Depth: Utica

10) Proposed Total Measured Depth: 20400' **DEC 11 2015**

11) Proposed Horizontal Leg Length: 7765' **WV Department of**
Environmental Protection

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: _____

WW-6B
(10/14)

API NO. 47- _____ - _____
 OPERATOR WELL NO. Wiley S GRN WZ 12HU
 Well Pad Name: Wiley GRN WZ

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 | 30" | New | J-55 | 94# | 100' | 100' | 330, CTS |
| Fresh Water | 18-5/8" | New | J-55 | 87.5# | 1100' | 1100' | 2120, CTS |
| Coal | 13-3/8" | New | J-55 | 61# | 3400' | 3400' | 3100cuft, CTS |
| Intermediate | 9-5/8" | New | HPP-110 | 43.5# | 11100' | 11100' | 3440, cuft |
| Production | 5-1/2" | New | P-110 | 23# | 20400' | 20400' | 3110cuft |
| Tubing | 2-7/8" | New | N-80 | 4.7# | | | |
| Liners | | | | | | | |

MAE
12-3-15

| 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 | 30" | 36" | 0.438 | 2110 | 1000 | Class A | 1.2 |
| Fresh Water | 18-5/8" | 24" | 0.435 | 2250 | 1800 | Class A | 1.2 |
| Coal | 13-3/8" | 17-1/2" | 0.42 | 3090 | 2300 | Proratum 1150-60 Per H | Tail 1.27, Lead 1.51 |
| Intermediate | 9-5/8" | 12-1/4" | 0.435 | 9900 | 8990 | Proratum 1150-60 Per H | Tail 1.27, Lead 1.51 |
| Production | 5-1/2" | 8-3/4" | 0.415 | 14520 | 11500 | Proratum 1150-60 Per H | Tail 1.27, Lead 1.51 |
| Tubing | 2-7/8" | 4.778" | 0.19 | 11100 | 10000 | | |
| Liners | | | | | | | |

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DEC 11 2015

PACKERS

WV Department of
Environmental Protection

| | | | | |
|-------------|--|--|--|--|
| Kind: | | | | |
| Sizes: | | | | |
| Depths Set: | | | | |

WW-6B
(10/14)

API NO. 47- _____
OPERATOR WELL NO. Wiley S GRN WZ 12HU
Well Pad Name: Wiley GRN WZ

*MDC
10-3-15*

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

he 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 1110' and set freshwater casing. We will then continue drilling vertically and setting casing per the attached casing program. We will continue drilling vertically to 12750' TVD, into the Utica to pilot the well. We will run wire line logs and take sidewall surveys. We will plug back to our kick off point with a solid cement plug and finish drilling the curve and lateral 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 ~~11,000~~ 11,500 psi. Our rate will not exceed 90 bpm.

*TB
per discussion
w/ MPG*

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

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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

DEC 31
WV Department of
Environmental Protection

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.

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% |

10303127

Straw

Winter – 3 ton per acre

Summer – 2 ton per acre

Received

MAY 29 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

12/18/2015

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

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Office of Oil and Gas
OCT 09 2015
WV Department of
Environmental Protection
12/18/2015

WW-9
(9/13)

API Number 47 - _____ - _____
Operator's Well No. Wiley S GRN WZ 12HU

**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 _____)

*MAG
6-25-15*

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 _____

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

Company Official Title Regulatory Technician

Subscribed and sworn before me this _____ day of _____, 20_____

Notary Public

My commission expires _____

12/18/2015

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

4710303121

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.

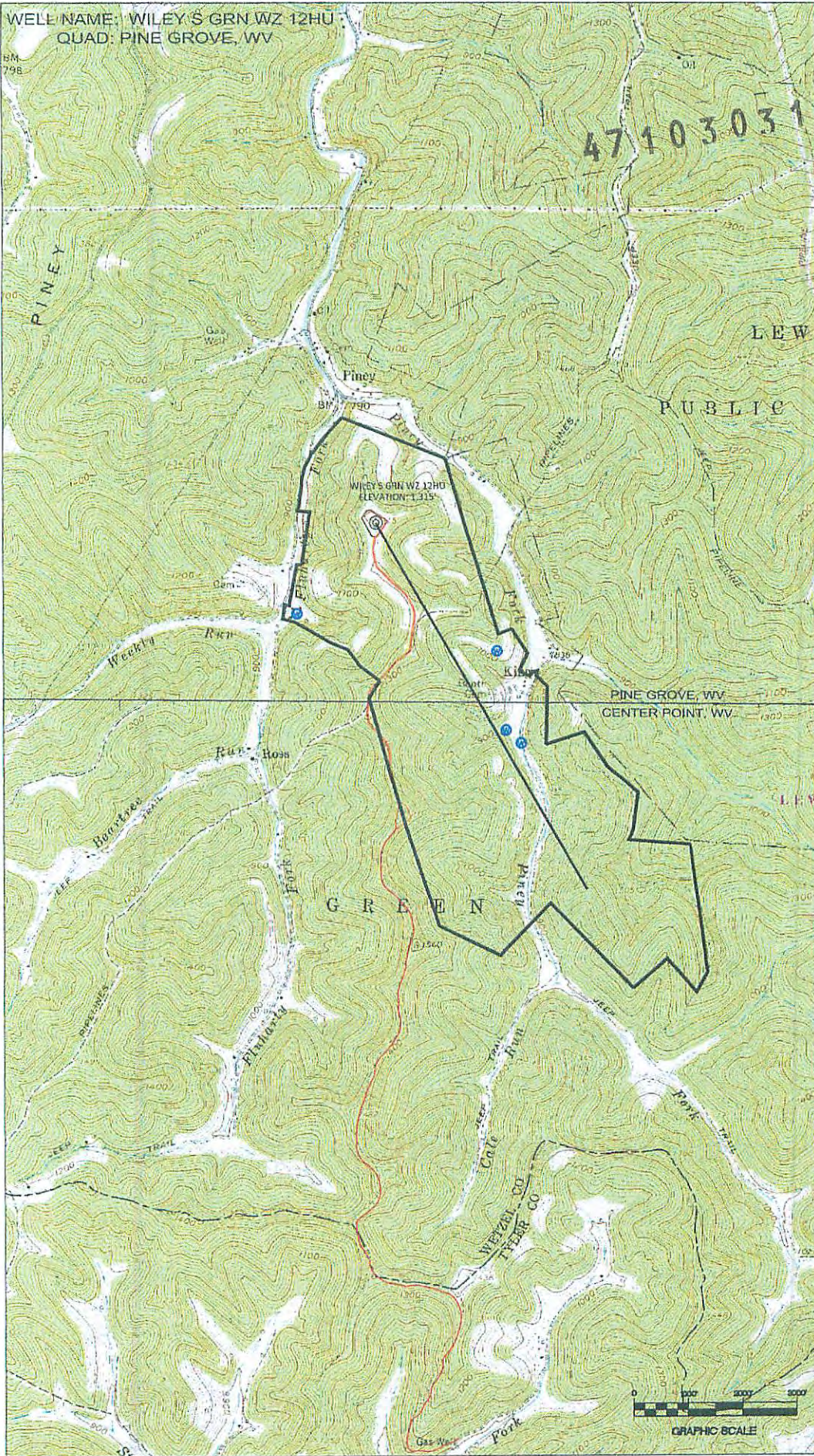
Plan Approved by: Michael Doff

Comments: Presced & mulch any disturbed areas per WVDEA regs. Maintain & upgrade E-n-s as necessary.

Title: Oil & Gas Inspector Date: 6-25-15

Field Reviewed? () Yes () No

WELL NAME: WILEY S GRN WZ 12HU
QUAD: PINE GROVE, WV



4710303121

MJG
6-25-15

12/18/2015

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

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Received

MAY 29 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

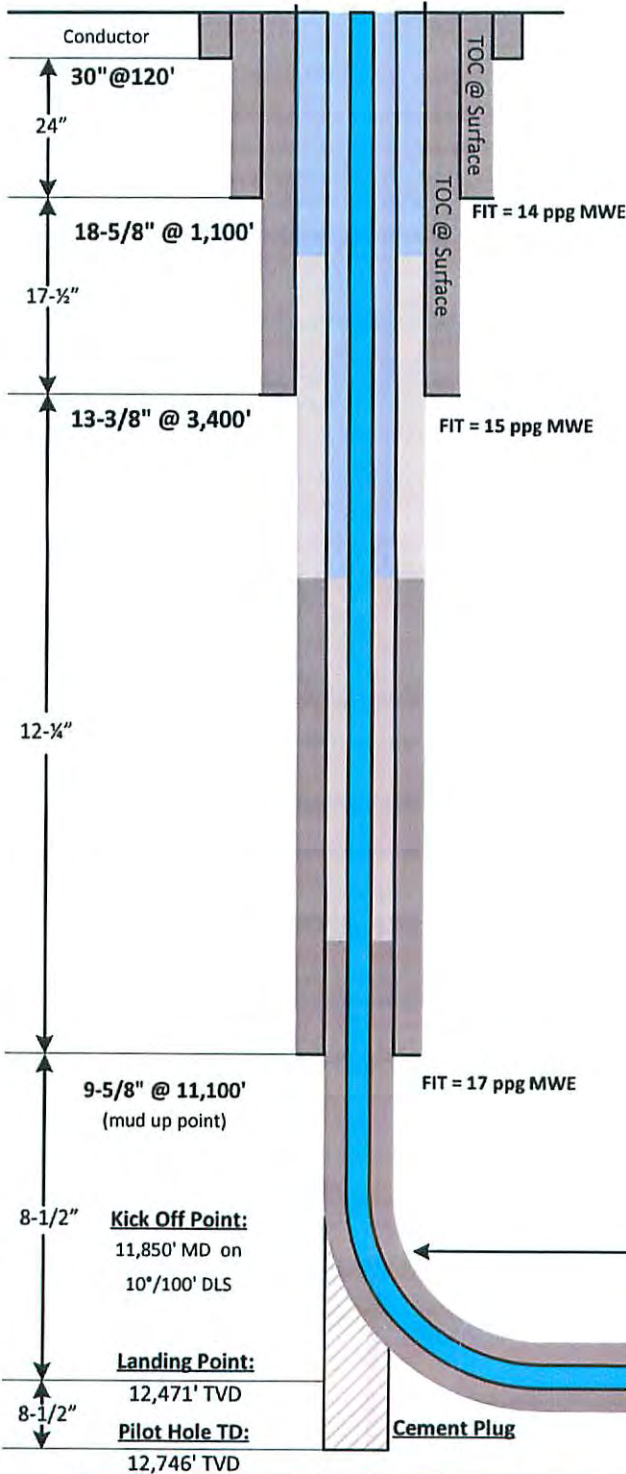
12/18/2015



AMERICAN ENERGY
UTICA

WILEY S GRN WZ 12HU

| | | | | |
|-------------------------------------|---|--|-----------|--|
| County, State: Wetzel, WV | | Township: Green | Location: | Formation: Utica Shale- Point Pleasant |
| Coordinates: NAD 27 | SHL Lat/Long: 39.509266 N, 80.691830 W | RKB / Elevation: 1,335' / 1,315' | | AFE DC/CWC: \$/ \$ |
| | BHL Lat/Long: 39.490994 N, 880.67773 W | | | USDW: 535' |
| Rig: Nomac Rig #81 | Target Line: 12,471' TVD @ 0° VS, 89.5° Inc, 150° Azi | | | Property #: AFE #: |



| Interval | Hole size (in) | Size (in) | Weight #/ft | Grade | Conn. | Collapse (PSI) | Burst (PSI) | Depth (ft) | Cost \$/ft |
|------------------|----------------|-----------|-------------|---------|-------|----------------|-------------|------------|------------|
| Conductor | 36" | 30" | - | - | - | - | - | 100 | - |
| Surface | 24" | 18-5/8" | 87.5 | J-55 | BTC | 630 | 2,250 | 1,100 | 82 |
| 1st Intermediate | 17-1/2" | 13-3/8" | 61 | J-55 | BTC | 1,540 | 3,090 | 3,400 | 42 |
| 2nd Intermediate | 12-1/4" | 9-5/8" | 43.5 | HCP-110 | BTC | 5,440 | 8,710 | 11,100 | 45 |
| Production | 8-1/2" | 5-1/2" | 23 | P-110 | DOX | 14,540 | 14,520 | 20,400 | 22 |

| Interval | Slurry | Weight | sk | Yield | 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 | 1750 | 1.20 cuft/sk | 40% | Surface |
| | Lead | 15.6 ppg | 1750 | 1.20 cuft/sk | 40% | Surface |
| 1st Intermediate | Lead | 13.5 ppg | 120 | 1.51 cuft/sk | 30% | Surface |
| | Tail | 15.3 ppg | 1520 | 1.27 cuft/sk | 30% | 700 |
| 2nd Intermediate | Lead | 13.5 ppg | 1195 | 1.51 cuft/sk | 20% | 2000 |
| | Tail | 15.3 ppg | 1290 | 1.27 cuft/sk | 20% | 6800 |
| Cement Plug | Tail | 17.5 ppg | 680 | 0.94 cuft/sk | 20% | 11400 |
| | Lead | 13.5 ppg | 570 | 1.51 cuft/sk | 10% | 6800 |
| Production | Tail | 15.3 ppg | 2250 | 1.27 cuft/sk | 10% | 10100 |
| | Lead | 15.3 ppg | 2250 | 1.27 cuft/sk | 10% | 10100 |

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MAY 29 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

| Formation | TVD | Sub Sea |
|-----------------|---------|----------|
| Freshwater | 535' | 780' |
| Pittsburgh Coal | 1,065' | 250' |
| Saltwater | 1,315' | - |
| Big Injun | 2,355' | -1,040' |
| Big Injun Base | 2,555' | -1,240' |
| Berea | 2,915' | -1,600' |
| Gordon | 3,135' | -1,820' |
| Gordon Base | 3,220' | -1,905' |
| Middlesex | 6,952' | -5,637' |
| Genesee | 7,095' | -5,780' |
| Tully | 7,123' | -5,808' |
| Hamilton | 7,147' | -5,832' |
| Marcellus | 7,235' | -5,920' |
| Purcell | 7,242' | -5,927' |
| Lower Marcellus | 7,244' | -5,929' |
| Basal Marcellus | 7,267' | -5,952' |
| Onondaga | 7,285' | -5,970' |
| Oriskany | 7,509' | -6,194' |
| Salina | 8,010' | -6,695' |
| Silurian | 8,828' | -7,513' |
| Clinton | 9,835' | -8,520' |
| Queenston | 10,135' | -8,820' |
| Reedsville | 11,085' | -9,770' |
| Utica | 12,271' | -10,956' |
| Point Pleasant | 12,432' | -11,117' |
| Trenton | 12,546' | -11,231' |
| Pilot TD | 12,746' | -11,431' |

8-1/2" Curve and Lateral

5-1/2" Casing @ 20,400':
7,760' VS / 12,471' TVD

| 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) | HHP (ml/30min) | PV (cps) | YP (#/100 ft ²) | 6 RPM | WPS ppm | OWR % by vol |
| Surface | 0' - 1100' | >5000 | 30-50 | 1/2 - 3/4 | Pilot Hole | 10,600' - 12,746' | 13.5 - 14.0 | 50 - 60 | 4 - 6 | 18 - 24 | 10 - 12 | 6-9 | 150K - 400K | 75:25 - 40:60 |
| 1st Intermediate | 1100' - 3,400' | >5000 | 30-50 | 1/2 - 3/4 | Curve | 11,850' - 12,750' | 14.0 - 14.5 | 50 - 60 | 4 - 6 | 18 - 24 | 10 - 12 | 6-9 | | |
| 2nd Intermediate | 3,400' - 10,600' | >5000 | 40-60 | 3/4 - 1 | Lateral | 12,750' - 20,400' | 14.0 - 14.5 | 50 - 60 | 4 - 6 | 18 - 24 | 10 - 12 | 6-9 | | |

12/18/2015

Wiley S GRN WZ 12HU Site Safety Plan



ASCENT
RESOURCES

Michael G. Hoff
11-19-15

Brewer, Charles T

From: Ariel Bravo <ariel.bravo@ascentresources.com>
Sent: Tuesday, December 15, 2015 10:40 AM
To: Brewer, Charles T
Subject: RE: Wiley 12H

Taylor,

Yes, it is okay to transfer the application for the Wiley S GRN WZ 12HU from AEM's name to Ascent Resources – Marcellus, LLC's name. This permit was in the queue during the time our company changed names, so we would greatly appreciate it if the permit application was transferred into Ascent's name.

Thank you for your help!



Ariel Bravo | Regulatory Technician
(O) 405-252-7642 (M) 405-403-4803
ariel.bravo@ascentresources.com
3501 NW 63rd St. | Oklahoma City, OK 73116

From: Brewer, Charles T [mailto:Charles.T.Brewer@wv.gov]
Sent: Tuesday, December 15, 2015 9:38 AM
To: Ariel Bravo <ariel.bravo@ascentresources.com>
Subject: Wiley 12H

Ariel,

Can you please send me email confirmation that it is ok to transfer this application from AEM to Ascent for my records. Since this was an application and not a permit during your name change, we did not receive a formal request.

Thanks,

Taylor

Taylor Brewer, B.S., M.S.

Environmental Resource Specialist 3
Permit Review
WVDEP Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
304-926-0499 ext. 1547

**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

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: Ascent Resources Marcellus, LLC
 By: 
 Its: Regulatory Technician

**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
(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

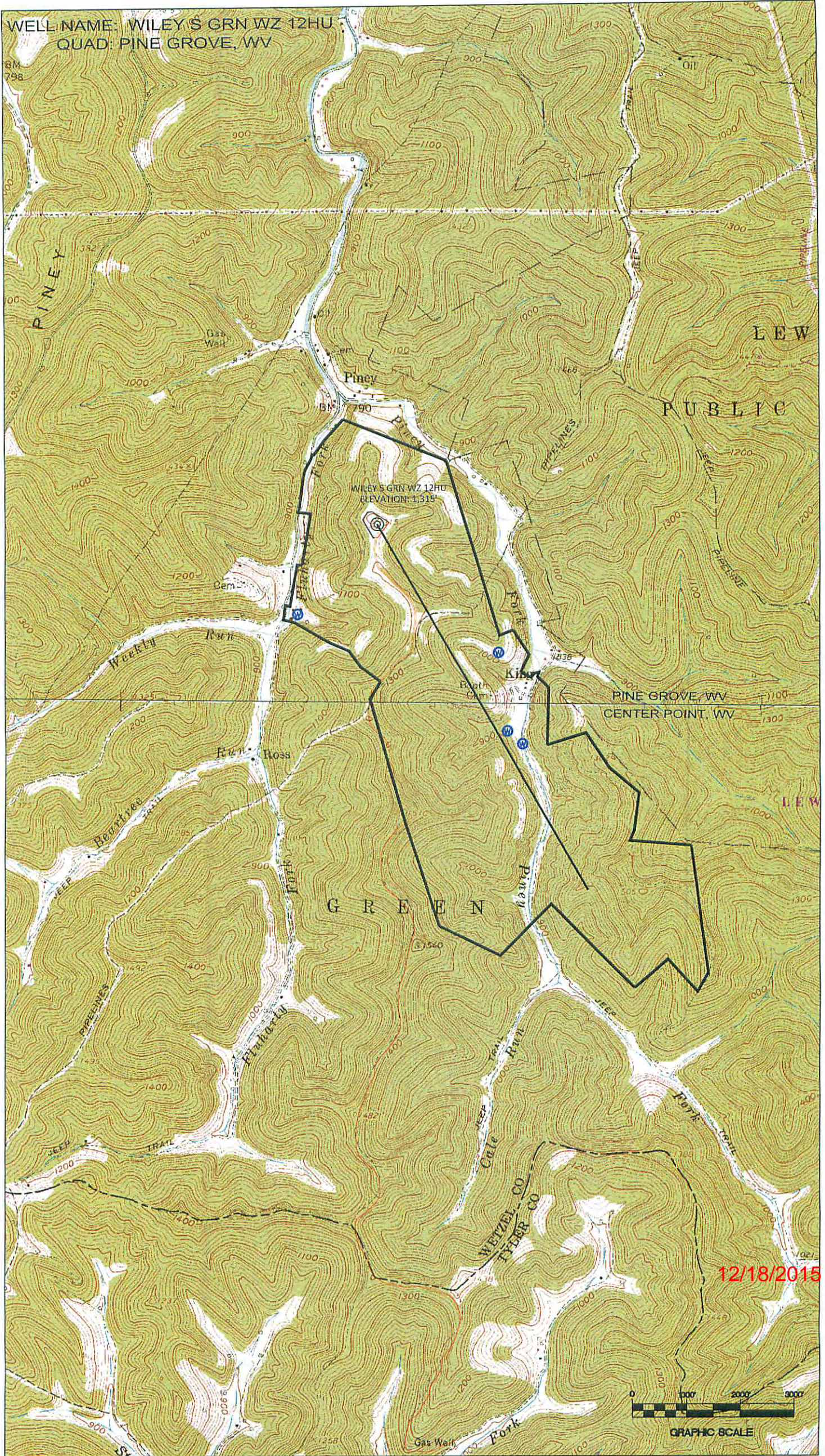
| American Energy - Marcellus, LLC is the record title owner of the leases identified herein. Listed below each lease is the applicable chain of title by which American Energy - Marcellus, LLC was vested with title | | | | | | | |
|--|---------------------------------------|--|--|--|--|---------------------|-------------------|
| Parcel No. | Fee/Lease No. | Lessor/Assignor | Lessee/Assignee | Royalty/Instrument | Book/Page | | |
| 5-23-4 | 25040-50 | 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 | | | | |
| American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records | | | | |
| 5-23-12 | 47250-00 | Beulah K. Kirby etvir | C.E. Beck | 1/8 | 58A/161 | | |
| | | 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 | | |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records | | |
| | | 5-23-8 | 67618-00 | Lloyd Joe Prine etux | 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 | | |
| American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | | | Cert. of Name Change | WV Sec. of State records | | |
| 5-23-18 | 47252-00 | | | George H. Stonestreet etux | C.E. Beck | 1/8 | 58/A 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 | | |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records | | |
| | | 5-23-28.4 | 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 | | |
| American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | | | Cert. of Name Change | WV Sec. of State records | | |
| 5-23-28 | 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 | | |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records | | |

RESOLVE
09/20
12/18/2015
Environment
Production

| | | | | | |
|---------|-----------|--|--|----------------------|--------------------------|
| | | East Resources, Inc. and HG Energy, LLC | American Energy - Marcellus, LLC | Assignment | 153A/238 |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records |
| 5-23-34 | 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 |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records |
| 5-23-38 | 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 |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records |
| 5-26-4 | 15544-50 | Geo. V. and Josephine M. Reilly | 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 | 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 |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records |
| 5-23-26 | 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 |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records |
| 5-23-27 | 47252-00 | George H. Stonestreet etux | C.E. Beck | 1/8 | 58/A 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 |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records |
| 5-23-33 | 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 |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records |
| 5-26-2 | 57098-00 | Wadsworth Brothers, Inc. | Pennzoil Company | 1/8 | 65A/420 |
| | | 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 |
| | | American Energy - Marcellus, LLC | Ascent Resources - Marcellus, LLC | Cert. of Name Change | WV Sec. of State records |

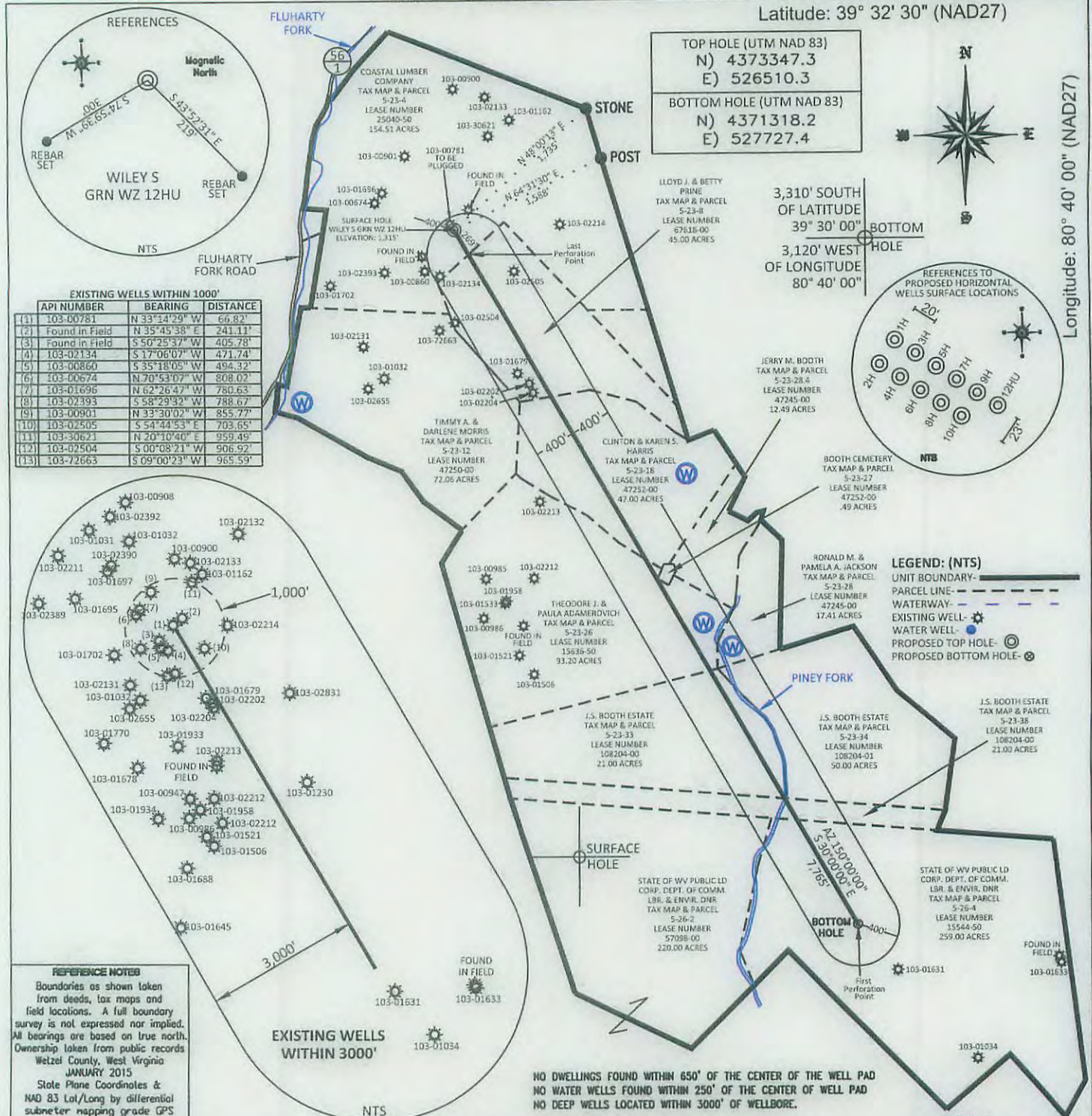
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Office of Oil and Gas
OCT 09 2015
WV Department of
Environmental Protection
12/18/2015

WELL NAME: WILEY S GRN WZ 12HU
QUAD: PINE GROVE, WV



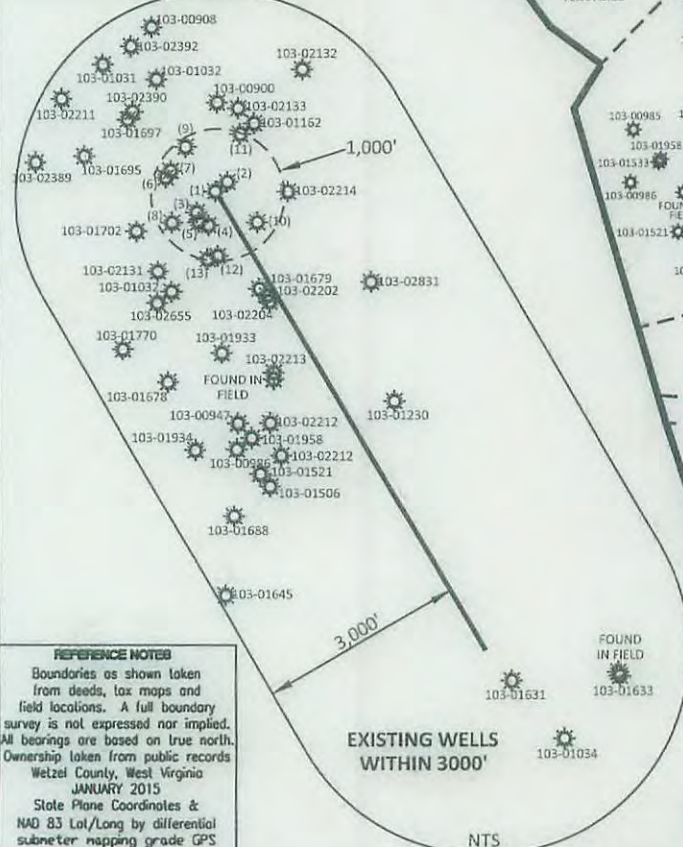
12/18/2015





EXISTING WELLS WITHIN 1000'

| API NUMBER | BEARING | DISTANCE |
|--------------------|---------------|----------|
| (1) 103-00781 | N 33°14'29" W | 66.82' |
| (2) Found in Field | N 35°45'38" E | 241.11' |
| (3) Found in Field | S 50°25'37" W | 405.78' |
| (4) 103-02134 | S 17°06'07" W | 471.74' |
| (5) 103-00860 | S 35°18'05" W | 494.32' |
| (6) 103-00674 | N 70°53'07" W | 808.02' |
| (7) 103-01696 | N 62°26'47" W | 780.63' |
| (8) 103-02393 | S 58°29'32" W | 788.67' |
| (9) 103-00901 | N 33°30'02" W | 855.77' |
| (10) 103-02505 | S 54°44'53" E | 703.65' |
| (11) 103-30621 | N 20°10'40" E | 959.49' |
| (12) 103-02504 | S 00°08'21" W | 906.92' |
| (13) 103-72663 | S 09°00'23" W | 965.59' |



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
NO DEEP WELLS LOCATED WITHIN 3000' OF WELLBORE.

FILE #: AE003
DRAWING #: 2485
SCALE: PLAT - 1" = 1400'
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

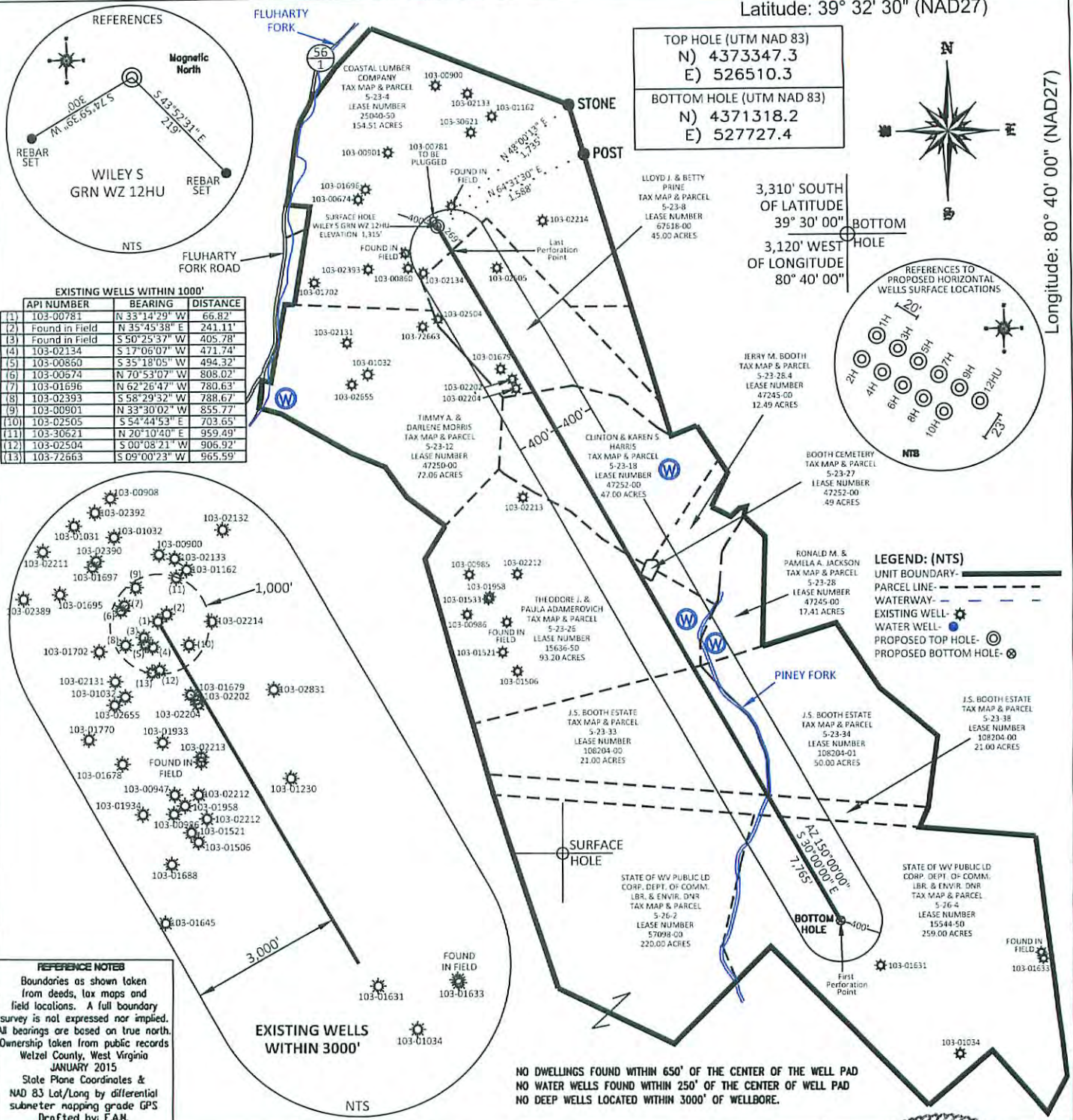
DATE: OCTOBER 8, 2015
OPERATOR'S WELL #: WILEY S GRN WZ 12HU
API WELL #: 47 103 STATE COUNTY PERMIT 0312146A

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

WATERSHED: FISHING CREEK ELEVATION: 1315'=Current
1286.29'=Proposed
COUNTY/DISTRICT: WETZEL / GREEN QUADRANGLE: PINE GROVE, WV
SURFACE OWNER: COASTAL LUMBER COMPANY ACREAGE: 154.51 +
OIL & GAS ROYALTY OWNER: WILLIAM H. McCoy ACREAGE: 629.61 +/-
LEASE NUMBERS: _____

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

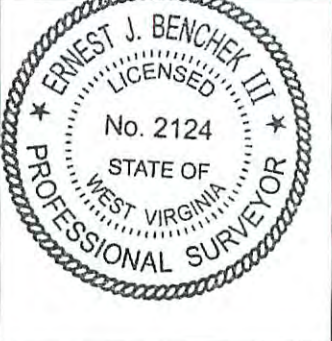
TARGET FORMATION: UTICA ESTIMATED DEPTH: TVD: 12,471' TMD: 20,400'
WELL OPERATOR: Ascent Resources - Marcellus, LLC DESIGNATED AGENT: Eric B. Gillespie
ADDRESS: 3501 NW 63rd Street ADDRESS: 103 Taryn Lane
CITY: Oklahoma City STATE: OK ZIP CODE: 73116 CITY: Cross Lanes STATE: WV ZIP CODE: 25313



FILE #: AE003
DRAWING #: 2485
SCALE: PLAT - 1" = 1400'
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:
L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WYDEP
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: WILLIAM H. McCoy
LEASE NUMBERS:

DATE: OCTOBER 8, 2015
OPERATOR'S WELL #: WILEY S GRN WZ 12HU
API WELL #: 47 103
STATE COUNTY PERMIT
ELEVATION: 1315' = Current
1286.29' = Proposed
QUADRANGLE: PINE GROVE, WV
CENTER POINT, WV
ACREAGE: 154.51 +/-
ACREAGE: 629.61 +/-
12/18/2015
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):
TARGET FORMATION: UTICA
ESTIMATED DEPTH: TVD: 12,471' TMD: 20,400'
WELL OPERATOR: Ascent Resources - Marcellus, LLC
DESIGNATED AGENT: Eric B. Gillespie
ADDRESS: 3501 NW 63rd Street
ADDRESS: 103 Taryn Lane
CITY: Oklahoma City STATE: OK ZIP CODE: 73116
CITY: Cross Lanes STATE: WV ZIP CODE: 25313

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

Date of Notice Certification: 05/06/2015

API No. 47- _____ - _____
Operator's Well No. Wiley S GRN WZ 12HU
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>526510.3</u> |
| County: | <u>Wetzel</u> | | Northing: | <u>4373347.3</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 type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p> | <p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> |
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Office of Oil and Gas
WV Dept. of Environmental Protection

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.


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: | <u>American Energy - Marcellus, LLC</u> | Address: | <u>301 NW 63rd, Suite 600</u> |
| By: | <u>Ariel Bravo</u> | | <u>Oklahoma City, OK 73116</u> |
| Its: | <u>Regulatory Technician</u> | Facsimile: | <u>405-607-5868</u> |
| Telephone: | <u>405-607-5529</u> | Email: | <u>ariel.bravo@aep-lp.com</u> |



Subscribed and sworn before me this 6 day of May, 2015.

 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.

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Office of Oil and Gas
WV Dept. of Environmental Protection

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

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

Date of Notice: 5/21/2015 **Date Permit Application Filed:** 5/29/2015

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: Coastal Lumber Company
Address: PO Box 709
Buckhannon, WV 26201

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

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MAY 29 2015

American Energy – Marcellus, LLC

WW-6A Ownership List

Wiley S GRN WZ 12HU

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| Surface Owners | | | | |
|------------------------|--------------|------------|-------|-------|
| Wiley S GRN WZ 12HU | | | | |
| Name | Address | City | State | Zip |
| Coastal Lumber Company | P.O. Box 709 | Buckhannon | WV | 26201 |

| Coal Owners | | | | | |
|-----------------------------------|----------------|--------------------------|--------------------------|-------|-------|
| Wiley S GRN WZ 12HU | | | | | |
| First | Last | Address | City | State | Zip |
| 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 | Southern Pine | WV | 26175 |
| Flo | McCoy | PO Box 462 | Southern Pine | NC | 28388 |
| Jean E. | McCoy | 1095 Central Drive | Southern Pine | NC | 28387 |
| William J. | McCoy | 5907 Willow Creek Way | Environmental Protection | VA | 23225 |
| Coal Operator | | | | | |
| Wiley S GRN WZ 12HU | | | | | |
| Consol Energy | | 6126 Energy Road | Moundsville | WV | 26041 |

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 WV Department of Environmental Protection

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| Water Owners | | | | | |
|-------------------------------|------------|----------------------|------------|-------|-------|
| Wiley S GRN WZ 12HU | | | | | |
| First | Last | Address | City | State | Zip |
| William B. & Sarah E. | Bassett | 809 Right Hand Road | Pine Grove | WV | 26419 |
| Cecil & Eileen | Fisher | 4526 Piney Fork Road | Pine Grove | WV | 26419 |
| Mark & Jacob & Shaune & Logan | Fisher | HC 60 Box 301 | Reader | WV | 26167 |
| Francis & Patricia | Fluharty | HC 60 Box 286 | Pine Grove | WV | 26419 |
| Rick & Kathrilla | Fluharty | 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 |
| Coastal Lumber Company | | P.O. Box 709 | Buckhorn | WV | 26201 |
| Elizabeth Miller Estate | | PO Box 508 | Wellsburg | WV | 26070 |
| Isreal Miller Estate | | PO Box 508 | Wellsburg | WV | 26097 |

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OCT 06 2015

WV Department of
Environmental Protection

12/18/2015

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.

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Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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

Received

MAY 29 2015

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.**

Office of Oil and Gas
WV Dept. of Environmental Protection

12/18/2015

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

MAY 29 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

12/18/2015

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. Wiley S GRN WZ 12HU
Well Pad Name: Wiley GRN WZ



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 6 day of May, 2016



Notary Public

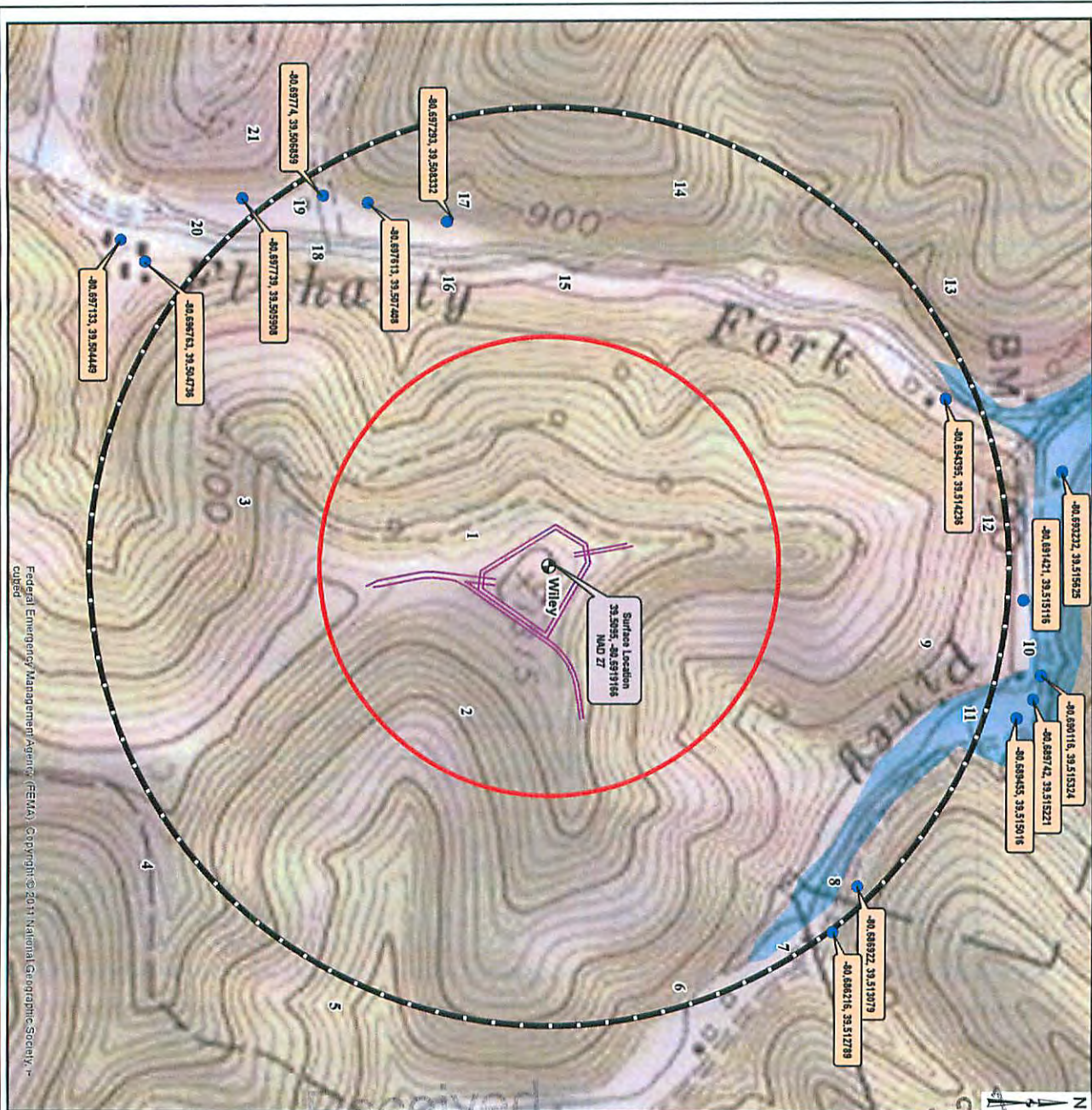
My Commission Expires 01/23/18

1030712

Received

MAY 29 2015

Office of Oil and Gas
WV Dept. of Environmental Protection



Federal Emergency Management Agency (FEMA). Copyright © 2011 National Geographic Society. All rights reserved.

MAY 29 2015

471030712

Office of Oil and Gas
West Virginia Department of Environmental Protection

| PROPERTY # | PARCEL NO. | OWNER | ADDRESS |
|------------|-------------|---------------------|---------------------|
| 1 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 2 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 3 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 4 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 5 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 6 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 7 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 8 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 9 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 10 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 11 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 12 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 13 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 14 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 15 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 16 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 17 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 18 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 19 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 20 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 21 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |

| PROPERTY # | PARCEL NO. | OWNER | ADDRESS |
|------------|-------------|---------------------|---------------------|
| 1 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
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| 3 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 4 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
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| 9 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 10 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 11 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 12 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 13 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 14 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 15 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 16 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 17 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 18 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 19 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 20 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |
| 21 | 03 20000000 | WILEY & COMPANY LLC | 10000 WETZEL COUNTY |



- AEU Surface Location
- Streams and Rivers
- Access Road
- Water Well Location
- AEU Testing Radius (2000')
- W/DEP 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



| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |

12/18/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 05/06/2015 **Date Permit Application Filed:** 05/22/2015

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

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

4710303121

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Coastal Lumber Company
Address: PO Box 709
Buckhannon, WV 26201

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon 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>526510.3</u> |
| County: <u>Wetzel</u> | Northing: <u>4373347.3</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(b), this notice shall include the name, address, telephone number, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: American Energy - Marcellus, LLC
Address: 301 NW 63rd, Suite 600
Oklahoma City, OK 73116
Telephone: 405-418-8000
Email: ariel.bravo@aep-lp.com
Facsimile: 405-607-5868

Authorized Representative: Ariel Bravo
Address: PO Box 18756
Oklahoma City, OK 73154
Telephone: 405-607-5529
Email: ariel.bravo@aep-lp.com
Facsimile: 405-607-5868

Received

MAY 29 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

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.

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

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

Date of Notice: 05/06/2015 **Date Permit Application Filed:** 05/22/2015

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

CERTIFIED MAIL 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.

47 10303121

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: Coastal Lumber Company
Address: PO Box 709
Buckhannon, WV 26201

Name: _____
Address: _____

Notice is hereby given:

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

| | | | | |
|-------------|----------------------|---------------------------|-----------------------------------|------------------|
| State: | <u>West Virginia</u> | UTM NAD 83 | Easting: | <u>526510.3</u> |
| County: | <u>Wetzel</u> | | Northing: | <u>4373347.3</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: 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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received

MAY 29 2015



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

September 23, 2015

4710303121

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 12HU

Wiley S GRN WZ 6H

Dear Mr. Martin,

This well site will be accessed from a DOH permit 06-2014-0571 which has been transferred to Ascent Resources – 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
Ascent Resources - Marcellus, LLC.
CH, OM, D-6
File

WILEY GRN WZ WELL PAD GREEN & McELROY DISTRICTS, WETZEL & TYLER COUNTIES, WV FEBURARY 2015



TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848
TICKET NUMBER: 1503403104

OWNER



**AMERICAN ENERGY
MARCELLUS**

AMERICAN ENERGY MARCELLUS, LLC
1000 UTICA WAY
CAMBRIDGE, OH 43725

APPROVED
WVDEP OOG

2/2/15 5/20/15

- SHEET INDEX
1. TITLE SHEET
- 2-3. EVACUATION ROUTE/PREVAILING WIND
 - 4. E&S CONTROL LAYOUT OVERVIEW
 - 5-18. E&S CONTROL LAYOUT
 - 19. E&S CONTROL AND SITE PLAN OVERVIEW
 - 20-33. E&S CONTROL AND SITE PLAN
 - 34. WELL PAD CROSS-SECTIONS AND PROFILES C-C', AND D-D'
 - 35-38. ACCESS ROAD #1,#2 AND #3 PROFILES
 - 39-42. ACCESS ROAD #1,#2 AND #3 CROSS-SECTIONS
 - 43-45. DETAIL SHEET
 - 46. RECLAMATION PLAN OVERVIEW
 - 47-60. RECLAMATION PLAN

TOTAL DISTURBED AREA: 42.3 AC.
ACCESS ROAD #1 DISTURBED AREA: 33.1 AC.
ACCESS ROAD #2 DISTURBED AREA: 1.9 AC.
ACCESS ROAD #3 DISTURBED AREA: 0.5 AC.
WELL PAD DISTURBED AREA: 6.8 AC.

WV Dept. of Environmental Protection
Office of Oil and Gas

MAY 29 2015

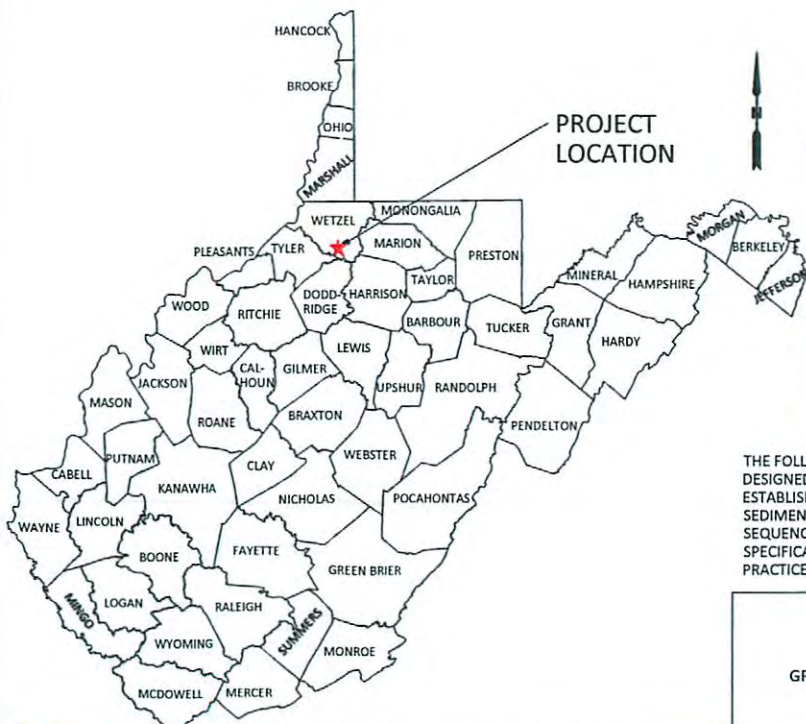
Received

47 1503403104



Andrew Benchek 2-25-15

ANDREW BENCHEK
P.E.



PROJECT LOCATION

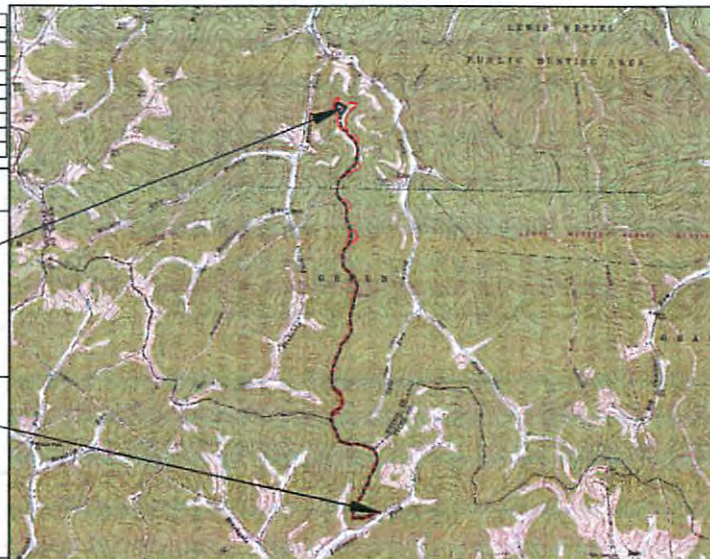
| PROPERTY OWNER PROJECT BOUNDARY ACREAGE | | | REVISIONS | | |
|--|-----------|-------|-----------|------|-------------|
| PROPERTY OWNER | PARCEL # | ACRES | NO. | DATE | DESCRIPTION |
| WV DEPARTMENT OF NATURAL RESOURCES COMMERCE DIVISION | 5-8-22 | 2.3 | | | |
| WV DEPARTMENT OF NATURAL RESOURCES COMMERCE DIVISION | 5-8-8 | 0.4 | | | |
| WV DEPARTMENT OF NATURAL RESOURCES COMMERCE DIVISION | 5-8-9 | 4.4 | | | |
| JAMES & BETTY MCCOY | 5-8-10.1 | 0.6 | | | |
| COASTAL FOREST RESOURCES | 5-26-13 | 1.2 | | | |
| STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR | 5-26-14 | 2.6 | | | |
| STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR | 5-26-7 | 2.3 | | | |
| STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR | 5-26-2 | 0.5 | | | |
| STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR | 5-26-1 | 3.3 | | | |
| WV STATE OF COMMERCE BUREAU OF NATURAL RESOURCES DIV. PUBLIC | 5-26-6 | 0.03 | | | |
| DALLISON LUMBER | 5-23-37 | 0.5 | | | |
| J.S. BOOTH ESTATE | 5-23-33 | 0.8 | | | |
| J.S. BOOTH ESTATE | 5-23-38 | 0.7 | | | |
| JOHN S. KNIGHT | 5-23-32 | 0.3 | | | |
| THEODORE J. & PAULA ADAMEROVICH | 5-23-26 | 3.4 | | | |
| HG ENERGY LLC. | 5-23-25.1 | 0.3 | | | |
| HG ENERGY LLC. | 5-23-21.1 | 0.2 | | | |
| WILLIAM B. & SARAH E. BASSETT | 5-23-23 | 0.1 | | | |
| TAMMY A. & DARLENE MORRIS | 5-23-12 | 0.51 | | | |
| CLINTON & KAREN S. HARRIS | 5-23-18 | 1.1 | | | |
| LLOYD J. & BETTY PRINE | 5-23-8 | 7.66 | | | |
| COASTAL FOREST RESOURCES | 5-23-4 | 9.1 | | | |

IN ACCORDANCE WITH WV 35 CSR 8 THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND SEDIMENT CONTROL FIELD MANUAL. A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS & SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS.

COORDINATES

CENTER OF WELLS
(NAD 83)
LAT: 39.509409°
LONG: 80.691827°
(NAD 27)
LAT: 39.509327°
LONG: 80.692005°

SITE ENTRANCE
(NAD 83)
LAT: 39.463195°
LONG: 80.684883°
(NAD 27)
LAT: 39.463112°
LONG: 80.685060°



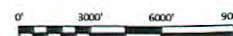
TITLE SHEET

WILEY GRN WZ WELL PAD
GREEN & McELROY DISTRICT, WETZEL & TYLER COUNTIES, WV

SHEET

1
OF
60

1"=3000'



SHEET #1

