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

February 26, 2016

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10303147, 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 N GRN WZ 9H
Farm Name: COASTAL LUMBER COMPANY
API Well Number: 47-10303147
Permit Type: Horizontal 6A Well
Date Issued: 02/26/2016

Promoting a healthy environment.

API Number: 103-03147

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.

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Charleston, WV 25304
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Earl Ray Tomblin, Governor
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ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

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

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

INTRODUCTION

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

FINDINGS OF THE CHIEF

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

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.

2. AEM is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 3501 NW 63rd Street Oklahoma City, Oklahoma.

3. On March 12, 2015, AEM submitted well work permit applications identified as API#s 47-103-03098, 47-103-03099, 47-103-03100, 47-103-03101, 47-103-03102, 47-103-03103, 47-103-03104 and 47-103-03105 located on the Wiley GRN WZ Pad in Green District of Wetzel County, West Virginia.

4. On March 12, 2015, AEM requested a waiver for Wetland #1 outlined in Exhibit B, from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as 47-103-03098, 47-103-03099, 47-103-03100, 47-103-03101, 47-103-03102, 47-103-03103, 47-103-03104 and 47-103-03105 located on the Wiley GRN WZ Pad in Green District of Wetzel County, West Virginia.

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

WW-6B
(10/14)

API NO. 47- 103 - 03147
OPERATOR WELL NO. Wiley N GRN WZ 9H
Well Pad Name: Wiley GRN WZ

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 N GRN WZ 9H 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 X Oil X Underground Storage _____
Other _____
(b)If Gas Shallow X Deep _____
Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus, Approximate TVD 7283', approximate thickness 50', +/- 4600 psi

8) Proposed Total Vertical Depth: 7283'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 12480'

11) Proposed Horizontal Leg Length: 4446'

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 X

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

WW-6B
(10/14)

API NO. 47- 103 - 03147
OPERATOR WELL NO. Wiley N GRN WZ 9H
Well Pad Name: Wiley GRN WZ

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

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		Operator ID	County	District	Quadrangle

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5) Well Type (a) Gas X Oil X Underground Storage _____
Other _____
(b)If Gas Shallow X Deep _____
Horizontal X

DMH 12-29-15

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus, Approximate TVD 7283', approximate thickness 50', +/- 4600 psi

8) Proposed Total Vertical Depth: 7283'

9) Formation at Total Vertical Depth: Onondaga

10) Proposed Total Measured Depth: 12480'

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

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(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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JAN 14 2016
Office of Oil and Gas
WV Dept. of Environmental Protection

WW-6B
(10/14)

API NO. 47- 103 - 03147
OPERATOR WELL NO. Wiley N GRN WZ 9H
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	20"	New	J-55	94#	100'	100'	330, CTS
Fresh Water	13-3/8"	New	J-55	54.5#	1105'	1105'	320, CTS
Coal							
Intermediate	9-5/8"	New	J-55	40#	3400'	3400'	1650, CTS
Production	5-1/2"	New	P-110	20#	12480'	12480'	4375
Tubing	2-7/8"	New	N-80	4.7#			
Liners							

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12-24-15

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	20"	24"	0.438	2110	50	Class A	1.2
Fresh Water	13-3/8"	17-1/2"	0.38	2740	600	Class A	1.2
Coal							
Intermediate	9-5/8"	12-1/4"	0.395	3520	1500	[illegible]	Tail 1.27, Lead 1.51
Production	5-1/2"	8-3/4"	0.361	12640	5000	[illegible]	Tail 1.27, Lead 1.51
Tubing	2-7/8"	4.778"	0.19	11100			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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(10/14)

API NO. 47- 103 - 03147
OPERATOR WELL NO. Wiley N GRN WZ 9H
Well Pad Name: Wiley GRN WZ

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 1105' and set freshwater casing. We will then continue drilling vertically and setting casing per the attached casing program to TD.

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

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

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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

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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.

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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% Fl 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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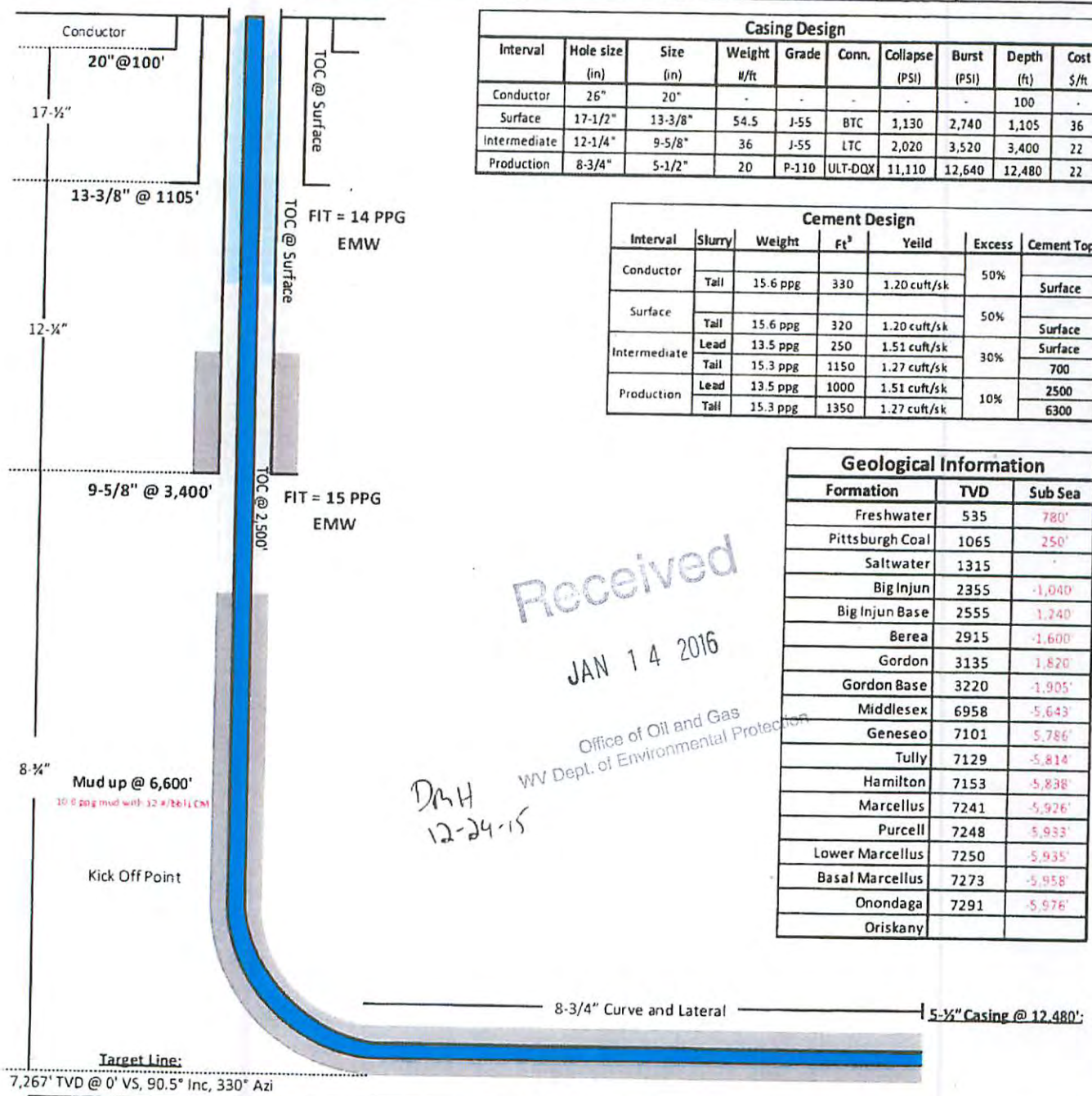
103-03147

Wiley N GRN WZ 9H

County, State: Wetzel, West Virginia	Township: Grant	Location:	Formation: Marcellus
Coordinates: NAD 27	SHL Lat/Long: 39.509378, 80.691684 W		RKB / Elevation:
	BHL Lat/Long:		AFE DC/CWC:
Rig:	Target Line: 7,283' TVD @ 0' VS, 90.5 Inc, 330 Azi		MSDW: 535' / Property #: / AFE #:



Casing Design

Interval	Hole size (in)	Size (in)	Weight #/ft	Grade	Conn.	Collapse (PSI)	Burst (PSI)	Depth (ft)	Cost $/ft
Conductor	26"	20"	-	-	-	-	-	100	-
Surface	17-1/2"	13-3/8"	54.5	J-55	BTC	1,130	2,740	1,105	36
Intermediate	12-1/4"	9-5/8"	36	J-55	LTC	2,020	3,520	3,400	22
Production	8-3/4"	5-1/2"	20	P-110	ULT-DQX	11,110	12,640	12,480	22

Cement Design

Interval	Slurry	Weight	Ft³	Yeild	Excess	Cement Top
Conductor	Tail	15.6 ppg	330	1.20 cuft/sk	50%	Surface
Surface	Tail	15.6 ppg	320	1.20 cuft/sk	50%	Surface
Intermediate	Lead	13.5 ppg	250	1.51 cuft/sk	30%	Surface
	Tail	15.3 ppg	1150	1.27 cuft/sk		700
Production	Lead	13.5 ppg	1000	1.51 cuft/sk	10%	2500
	Tail	15.3 ppg	1350	1.27 cuft/sk		6300

Geological Information

Formation	TVD	Sub Sea
Freshwater	535	780'
Pittsburgh Coal	1065	250'
Saltwater	1315	-
Big Injun	2355	-1,040'
Big Injun Base	2555	-1,240'
Berea	2915	-1,600'
Gordon	3135	-1,820'
Gordon Base	3220	-1,905'
Middlesex	6958	-5,643'
Geneseo	7101	-5,786'
Tully	7129	-5,814'
Hamilton	7153	-5,838'
Marcellus	7241	-5,926'
Purcell	7248	-5,933'
Lower Marcellus	7250	-5,935'
Basal Marcellus	7273	-5,958'
Onondaga	7291	-5,976'
Oriskany		

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Drilling Fluids Information

AIR INTERVALS

Interval	Depth (MD)	Rate (cfpm)	Water (bbl/hr)	Foamer (gal/hr)
Surface	0' - 1105'	>5000	30-50	1/2 -3/4
Intermediate	1105' - 3400'	>5000	30-50	1/2 -3/4
Vert/Nudge	3,400' - 6,600'	>5000	40-60	3/4 - 1

SYNTHETIC OIL BASED MUD INTERVAL

Interval	Depth (MD)	Weight (#/gal)	Viscosity (sec/qt)	HTHP (ml/30min)	PV (cps)	YP (#/100 ft²)	6 RPM	WPS ppm	OWR % by vol
Vertical	6,600' - 6,820'	10.0 - 10.5	50 - 60	4 - 6	18 - 24	10 - 12	6-9	150K - 180K	75:25 - 70:30
Curve	6,820' - 7,720'	10.5 - 13.5	50 - 60	4 - 6	18 - 24	10 - 12	6-9		
Lateral	7,720' - 12,480'	13.5 - 13.7	50 - 60	4 - 6	18 - 24	10 - 12	6-9		

WW-9
(9/13)

API Number 47 - 103 03147
Operator's Well No. Wiley N GRN WZ 9H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ascent Resources - Marcellus, LLC OP Code 494514693

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:

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

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

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

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WV Dept. of Environmental Protection

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) Ascent Resources - Marcellus, LLC

Company Official Title Regulatory Technician

Subscribed and sworn before me this 4 day of December, 20 15

Notary Public

My commission expires 01/23/2018

AMBER KOLLOCK NOTARY PUBLIC # 14000742 EXP. 01/23/18 STATE OF OKLAHOMA

103-03147

Form WW-9

Ascent Resources - Marcellus, LLC

Operator's Well No. Wiley N GRN WZ 9H

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch minimum of 2-3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
See attached		See attached	

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [signature]

Comments: _____

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Office of Oil and Gas
WV Dept. of Environmental Protection

Title: Oil + Gas Inspector Date: 12-24-15

Field Reviewed? (✓) Yes ( ) No

UIC WELLS and Landfills

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

Closed Loop Typical Description

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

Drilling Additives

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

Synthetic Oil Based Additives

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

ANCO Gel

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

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Temporary and Permanent Seed Mix

250 lbs. /acre

Mix Details

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

Straw

Winter – 3 ton per acre

Summer – 2 ton per acre

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Office of Oil & Gas
DEC 16 2015

103-03147

Wiley N GEN WZ 9H
Wiley S GRN WZ 10H

ASCENT
RESOURCES

DMH
12-24-15

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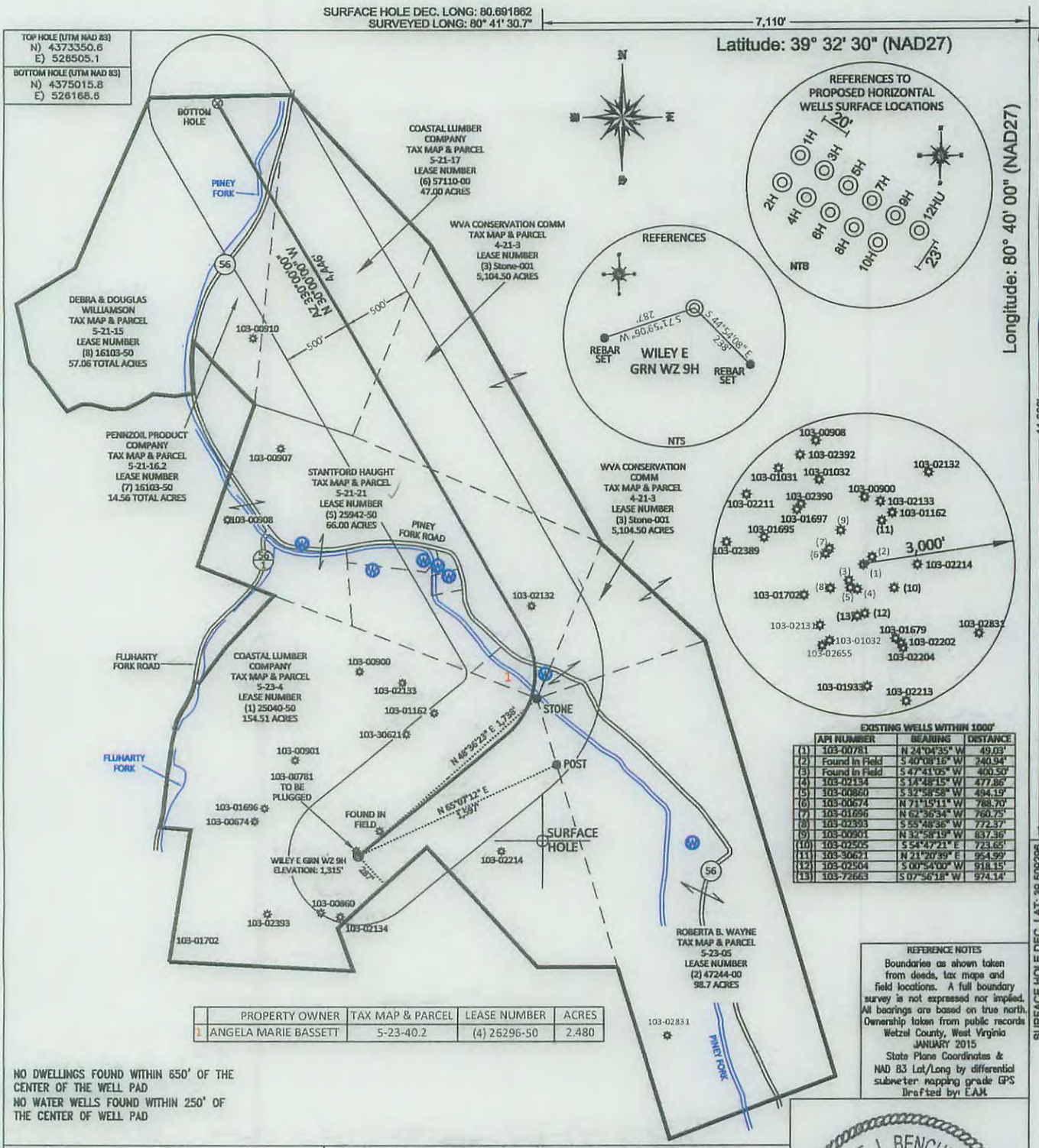
JAN 14 2016
Office of Oil and Gas
WV Dept. of Environmental Protection



	PROPERTY OWNER	TAX MAP & PARCEL	LEASE NUMBER	ACRES
1	ANGELA MARIE BASSETT	5-23-40.2	(4) 26296-50	2.480

EXISTING WELLS WITHIN 1000'

	API NUMBER	BEARING	DISTANCE
(1)	103-00781	N 24°04'35" W	49.03'
(2)	Found In Field	S 40°08'16" W	240.94'
(3)	Found In Field	S 47°41'05" W	400.50'
(4)	103-02134	S 14°48'15" W	477.86'
(5)	103-00860	S 32°58'58" W	494.19'
(6)	103-00674	N 71°15'11" W	788.70'
(7)	103-01696	N 62°36'34" W	760.75'
(8)	103-02393	S 55°48'36" W	772.37'
(9)	103-00901	N 32°58'19" W	617.36'
(10)	103-02505	S 54°47'21" E	723.66'
(11)	103-30621	N 21°20'39" E	954.99'
(12)	103-02504	S 00°54'00" W	918.15'
(13)	103-72663	S 07°56'18" W	974.14'

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

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.M.

FILE #: AE003
DRAWING #: 2534
SCALE: PLAT – 1" = 1000' 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

ERNEST J. BENCHEK III LICENSED No. 2124 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: OCTOBER 13, 2015

OPERATOR'S WELL #: WILEY E GRN WZ 9H

API WELL #: 47 (STATE) 103 (COUNTY) 03147 H6A (PERMIT)

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 CENTER POINT, WV
SURFACE OWNER: COASTAL LUMBER COMPANY
ACREAGE: 154.51 +/-
OIL & GAS ROYALTY OWNER: CHARLES W. McCOY JR, et al
ACREAGE: 5,554.33 +/-
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: MARCELLUS
ESTIMATED DEPTH: TVD: 7,283' TMD: 12,480'
WELL OPERATOR: Ascent Resources – Marcellus, LLC
DESIGNATED AGENT: Eric B. Gillespie
ADDRESS: 3501 NW 63rd Street
ADDRESS: 100 Star Ave Suite 120
CITY: Oklahoma City STATE: OK ZIP CODE: 73116
CITY: Parkersburg STATE: WV ZIP CODE: 26101

SURFACE HOLE DEC. LONG: 80.691862
SURVEYED LONG: 80° 41' 30.7"

7,110'

Latitude: 39° 32' 30" (NAD27)

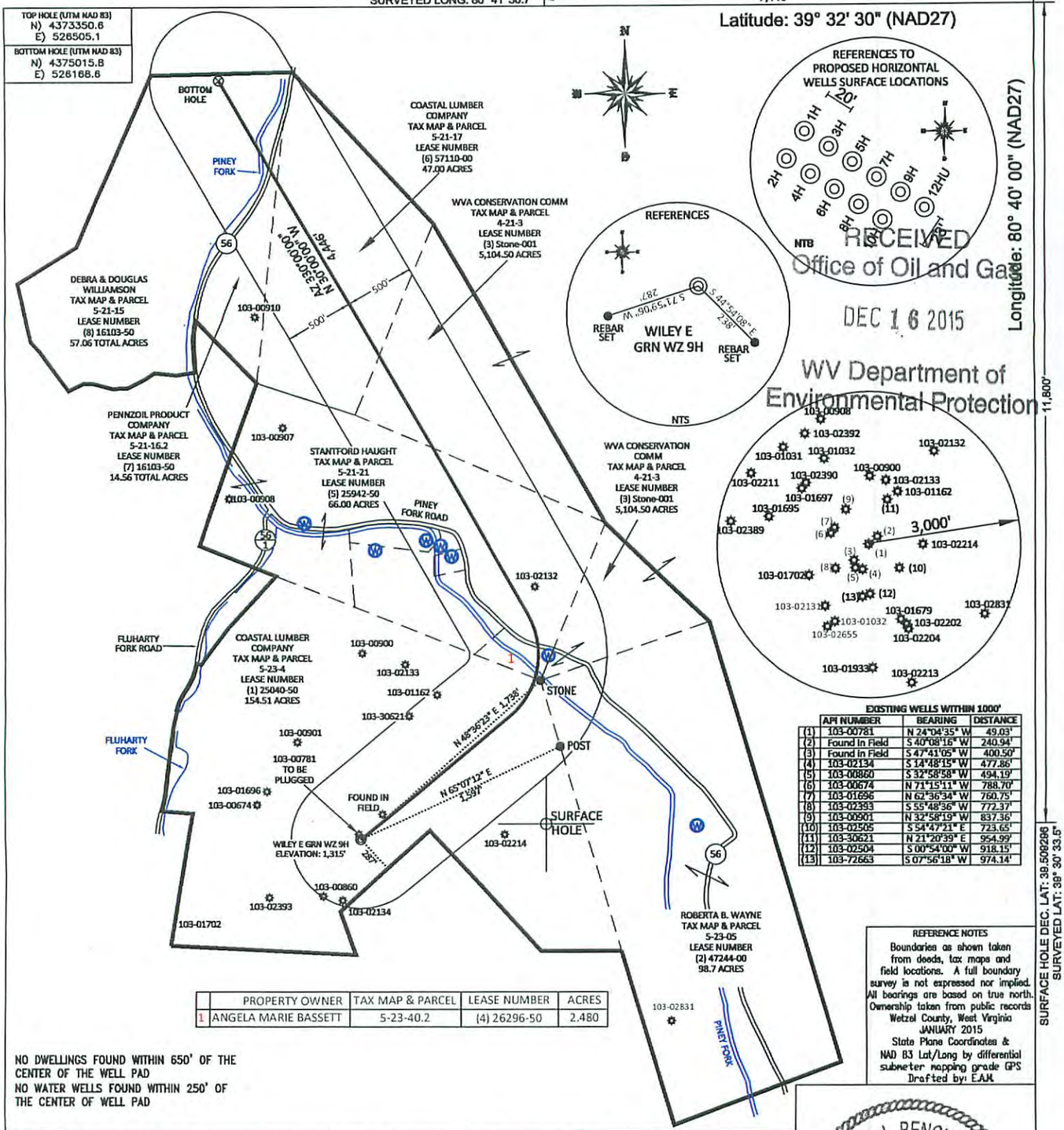
Longitude: 80° 40' 00" (NAD27)

11,800'

SURFACE HOLE DEC. LAT: 39.508286
SURVEYED LAT: 39° 30' 33.5"

TOP HOLE (UTM NAD 83)
N) 4373350.6
E) 526505.1

BOTTOM HOLE (UTM NAD 83)
N) 4375015.8
E) 526168.6



REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS

REFERENCES

EXISTING WELLS WITHIN 1000'

	API NUMBER	BEARING	DISTANCE
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NO WATER WELLS FOUND WITHIN 250' OF THE CENTER OF WELL PAD

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RECEIVED
Office of Oil and Gas
DEC 16 2015
WV Department of Environmental Protection

FILE #: AE003
DRAWING #: 2534
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Signed:

L.L.S. #2124 : Ernest J. Benchek III

ERNEST J. BENCHEK III LICENSED No. 2124 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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ELEVATION: 1315'=Current 1286.29'=Proposed
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SURFACE OWNER: COASTAL LUMBER COMPANY
ACREAGE: 154.51 +/–
OIL & GAS ROYALTY OWNER: CHARLES W. McCOY JR, et al
ACREAGE: 5,554.33 +/–
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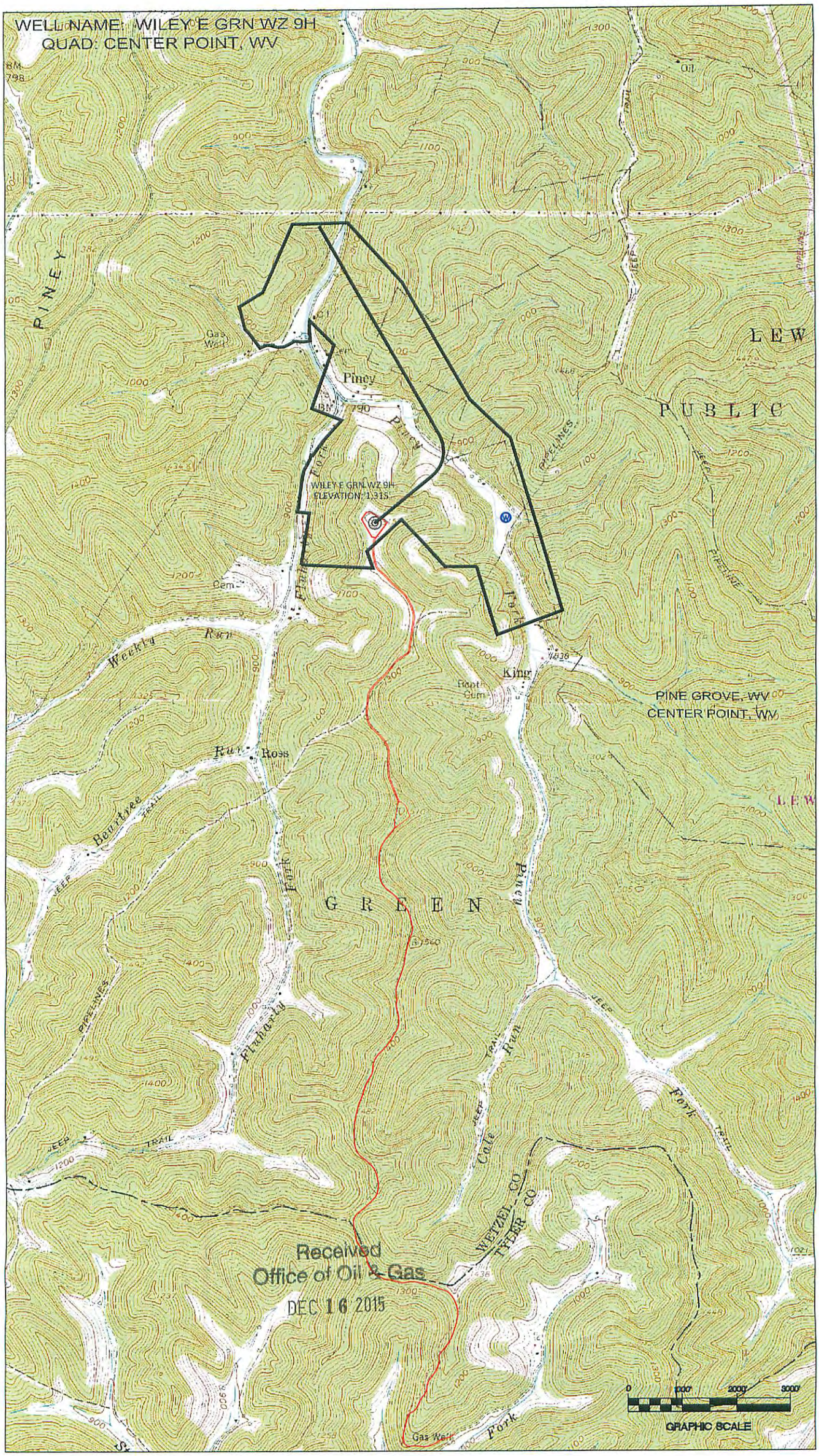
DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒
PLUG OFF FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):

TARGET FORMATION: MARCELLUS
ESTIMATED DEPTH: TVD: 7,283' TMD: 12,480'
WELL OPERATOR: Ascent Resources – Marcellus, LLC
DESIGNATED AGENT: Eric B. Gillespie
ADDRESS: 3501 NW 63rd Street
ADDRESS: 100 Star Ave Suite 120
CITY: Oklahoma City STATE: OK ZIP CODE: 73116
CITY: Parkersburg STATE: WV ZIP CODE: 26101

103-03147



Received
Office of Oil & Gas
DEC 16 2015

103-03148

WW-6A1
(5/13)

Operator's Well No. Wiley N GRN WZ 9H

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

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Office of Oil & Gas
DEC 16 2015

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

Well Operator: Ascent Resources - Marcellus, LLC
By:
Its: Regulatory Technician

103-03147

WW-6A1 Operator's Well No. Wiley N GRN WZ 9H

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

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

Tract No.	Parcel No.	Fee/Lease No.	Lessor/Assignor	Lessee/Assignee	Royalty/Instrument	Book/Page
8	5-21-15	16103-50	**Louisa J. Fluharty**	**South Penn Oil Company**	**1/8**	**40/44**
			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
6	5-21-17	57110-00	**Archie West etux**	**Pennzoil Company**	**1/8**	**65A/676**
			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	5-21-21	25942-50	**Rachel Wright etal**	**South Penn Oil Company**	**1/8**	**51/460**
			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
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			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
1	5-23-4	25040-50	**John R. McCoy etal**	**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
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			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
2	5-23-05	47244-00	**Ella F. Neal etvir**	**C.E. Beck**	**1/8**	**58A/127**
			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
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			American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
7	5-21-13	16103-50	**Louisa J. Fluharty**	**South Penn Oil Company**	**1/8**	**49/44**
			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
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			American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
3	4-21-3	STONE-001	**Mills Wetzel Lands, Inc**	**Reliable Energy Land and Leasing, LLC**	**18%**	**84A/403**
			Reliable Energy Land and Leasing, LLC	Stone Energy Corporation	Assignment	107A/667
			Stone Energy Corporation	Ascent Resources - Marcellus, LLC	Memo of Agreement	167A-67

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Office of Oil & Gas
DEC 16 2015

103-031487

4	5-23-40.2	26295-50	Sanford Wright, Guardian of Amanda Wright and Benton Wright, and as Special Commissioner	South Penn Oil Company	1/8	53/232
			South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/456
			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
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			American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records

Received
Office of Oil & Gas
DEC 16 2015

4710303147

RXing

ASCENT
RESOURCES

December 7, 2015

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

Re: Application for a Permit to Drill
Wiley N GRN WZ 9H

Dear Mr. Martin,

Ascent Resources – Marcellus, LLC has the right to drill, extract and produce the minerals from any roads crossed by the proposed laterals for the Wiley N GRN WZ 9H well by virtue of the lease identified on page WW-6A1 of the accompanying permit application.

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

Best Regards,

Ariel Bravo
Regulatory Technician
ariel.bravo@ascentresources.com
Cell 405-403-4803
Office 405-252-7642

Received
Office of Oil & Gas
DEC 16 2015

WW-6AC
(1/12)

1

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

Date of Notice Certification: 12/11/2015

API No. 47- 103 - 03147
Operator's Well No. Wiley N GRN WZ 9H
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:	West Virginia	UTM NAD 83 Easting:	526505.1
County:	Wetzel	Northing:	4373350.6
District:	Green	Public Road Access:	CR 13, CR 13/3 and CR 13/8
Quadrangle:	Center Point	Generally used farm name:	Coastal Lumber Company
Watershed:	Fishing Creek		

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.

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:

*PLEASE CHECK ALL THAT APPLY

		OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY	or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY	or ☒ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☒ 3. NOTICE OF INTENT TO DRILL	or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	☐ RECEIVED/ NOT REQUIRED
☒ 4. NOTICE OF PLANNED OPERATION		☐ RECEIVED
☒ 5. PUBLIC NOTICE		☐ RECEIVED
☒ 6. NOTICE OF APPLICATION		☐ RECEIVED

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Office of Oil & Gas
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Required Attachments:
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC
(1/12)

103-03147

Certification of Notice is hereby given:

THEREFORE, I _____, 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:	Ascent Resources - Marcellus, LLC	Address:	3501 NW 63rd Street
By:	Ariel Bravo		Oklahoma City, OK 73116
Its:	Regulatory Technician	Facsimile:	
Telephone:	405-252-7642	Email:	ariel.bravo@gmail.com

NOTARY PUBLIC AMBER KOLLOCK NOTARY # 14000742 EXP. 01/23/18 STATE OF OKLAHOMA

Subscribed and sworn before me this 7 day of December 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 & Gas
DEC 16 2015

WW-6A
(9-13)

API NO. 47- 103 - 03147
OPERATOR WELL NO. Wiley N GRN WZ 9H
Well Pad Name: Wiley GRN WZ

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: 12/07/2015 **Date Permit Application Filed:** 12/11/2015

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 979
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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Surface Owners				
Wiley N GRN WZ 9H				
Wiley S GRN WZ 10H				
Name	**Address**	**City**	**State**	**ZIP**
Coastal Lumber Company	PO Box 979	Buckhannon	WV	26201

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Office of Oil & Gas
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Coal Owners				
Wiley N GRN WZ 9H				
Wiley S GRN WZ 10H				
Name	**Address**	**City**	**State**	**ZIP**
Betty Ann Glen Eversman	112 Rebel Run Road	Crossville	TN	38558
Consol Energy	6126 Energy Road	Moundsville	WV	26041
Dale McCoy	1430 Mariners Drive	Newport Beach	CA	93660
Flo McCoy	PO Box 162	Southern Pines	NC	28388
Gary McCoy	PO Box 669	Glendora	CA	91740
Heirs of Guy H. McCoy C/O Su	205 Holly Drive	Southport	NC	26461
Jean McCoy	1095 Central Drive	Southern Pines	NC	28387
Karen Lynn Eversman	2041 W. Reserve Circle	Avon	OH	44011
Stephen McCoy	215 W. Normal St. #102	Houston	TX	77009
William J. McCoy	5907 Willow Creek Way	Richmond	VA	23225
William McCoy	200 Catherine Street	Sistersville	WV	26175

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DEC 16 2015

103-03147

WW-6A
(8-13)

API NO. 47- 103 - 03147
OPERATOR WELL NO. Wiley N GRN WZ 9H
Well Pad Name: Wiley GRN WZ

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 approved of and qualified to test water supplies in accordance with standard acceptable methods.

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Office of Oil & Gas
DEC 10 2015

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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

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
Office of Oil & Gas
DEC 16 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.**

WW-6A
(8-13)

API NO. 47- 103 - 03147
OPERATOR WELL NO. Wiley N GRN WZ 9H
Well Pad Name: Wiley GRN WZ

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

(1) The proposed well work will constitute a hazard to the safety of persons;
(2) The plan for soil erosion and sediment control is not adequate or effective;
(3) Damage would occur to publicly owned lands or resources; or
(4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Received
Office of Oil & Gas
DEC 16 2015

WW-6A
(8-13)

API NO. 47- 103- 03147
OPERATOR WELL NO. Wiley N GRN WZ 9H
Well Pad Name: Wiley GRN WZ

Notice is hereby given by:

Well Operator: Ascent Resources - Marcellus, LLC
Address: 3501 NW 63rd Street
Oklahoma City, OK 73116
Telephone: 405-608-5544
Email: ariel.bravo@ascentresources.com
Facsimile:

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.

AMBER KOLLOCK NOTARY PUBLIC STATE OF OKLAHOMA # 14000742 EXP. 01/23/18

Subscribed and sworn before me this 7 day of Dec. 2015.

Notary Public

My Commission Expires 01/23/2018

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Office of Oil & Gas
DEC 16 2015

Water Owners/Purveyors				
Wiley N GRN WZ 9H				
Wiley S GRN WZ 10H				
Name	**Address**	**City**	**State**	**ZIP**
Angie, Katie & Joseph Bassett	4848 Piney Fork Road	Pine Grove	WV	26419
Carole Stackpole	660 Right Hand Road	Pine Grove	WV	26419
Cecil & Eileen Fisher	4572 Piney Fork Road	Pine Grove	WV	26419
Clinton & Karen Harris	PO Box 374	Reader	WV	26167
Coastal Lumber Company	PO Box 979	Buckhannon	WV	26201
Elizabeth Miller Estate	PO Box 508	Wellsburg	WV	26070
Francis & Patricia Ann Fluharty	HC 60 Box 286	Pine Grove	WV	26419
Isreal Miller Estate	PO Box 508	Wellsburg	WV	26070
Joe Llyod & Betty Prine	300 Kanawha Avenue	Nitro	WV	25143
Mark, Jacob, Shaun & Logan Fisher	HC 60 Box 301	Reader	WV	26167
Patsy Hall	586 Right Hand Road	Pine Grove	WV	26419
Ricky & Katrilla Fluharty	HC 60 Box 693	Pine Grove	WV	26419
Timmy & Darlene Morris	HC 60 Box 294	Reader	WV	26167
William & Sarah Bassett	809 Right Hand Road	Pine Grove	WV	26419

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Office of Oil & Gas
DEC 16 2015

WW-6A1

103-03147

WW-6A4
(1/12)

Operator Well No. Wiley N GRN WZ 9H

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: 12/07/2015 **Date Permit Application Filed:** 12/11/2015

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

☐ HAND DELIVERY ☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED

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 979
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: West Virginia
County: Wetzel
District: Green
Quadrangle: Center Point
Watershed: Fishing Creek

UTM NAD 83 Easting: 526505.1
Northing: 4373350.6
Public Road Access: CR 13. CR 13/3 and CR 13/8
Generally used farm name:

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(b), this notice 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. 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: Ascent Resources - Marcellus, LLC
Address: 3501 NW 63rd Street
Oklahoma City, OK 73116
Telephone: 405-608-5544
Email:
Facsimile:

Authorized Representative: Ariel Bravo
Address: 3501 NW 63rd Street
Oklahoma City, OK 73116
Telephone: 405-252-7642
Email: ariel.bravo@ascentresources.com
Facsimile:

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

Received
Office of Oil & Gas
DEC 16 2015

103-03147

WW-6A5
(1/12)

Operator Well No. Wiley N GRN WZ 9H

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: 12/07/2015 **Date Permit Application Filed:** 12/11/2015

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

☒ CERTIFIED MAIL
RETURN RECEIPT REQUESTED

☐ HAND
DELIVERY

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

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

Name: Coastal Lumber Company
Address: PO Box 979
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: West Virginia
County: Wetzel
District: Green
Quadrangle: Center Point
Watershed: Fishing Creek

UTM NAD 83 Easting: 526505.1
Northing: 4373350.6
Public Road Access: CR 13. CR 13/3 and CR 13/8
Generally used farm name:

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: Ascent Resources - Marcellus, LLC
Telephone: 405-608-5544
Email: ariel.bravo@ascentresources.com

Address: 3501 NW 63rd Street
Oklahoma City, OK 73116
Facsimile:

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 & Gas
DEC 16 2015

103-03147

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

November 2, 2015

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

Subject: DOH Permit for the site Wiley North (503) Pad, Tyler County

Wiley N GRN WZ 9H

Dear Mr. Martin,

This well site will be accessed from a DOH permit 06-2013-0571 which has been issued to Ascent Resources 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

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

Cc: Eric Bruckman
Ascent Resources
CH, OM, D-6
File

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DEC 16 2015

CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED

Fracture Start Date/Time:	
Fracture End Date/Time:	
State:	WV
County:	Wetzel
API Number:	
Operator Number:	
Well Name:	Wiley GRN WZ
Federal Well:	No
Longitude:	
Latitude:	
Long/Lat Projection:	NAD27
True Vertical Depth (TVD):	
Total Clean Fluid Volume* (gal):	8,553,174

FracFocus Chemical Disclosure Registry (e.g. XX-XXX-XXXXX-0000)

anga America's Natural Gas Alliance

Additive	Specific Gravity	Additive Quantity	Mass (lbs)	
Water	1.00	8,553,174	71,376,237	gal
Sand (Proppant)	2.65	8,135,700	8,135,700	lb
Hydrochloric Acid (15%)	1.07	43,500	388,418	gal
Hydrochloric Acid (7.5%)	1.04	0	0	gal
PROHIB II	0.97	44	356	gal
FRA 407	1.05	9,505	83,523	gal
BIO CLEAR 2000	1.24	0	0	gal
PRO SCALE CLEAR 112	1.19	0	0	gal
PRO FLO 102 M	0.94	3,695	28,985	gal
PRO GEL 4.0L	1.02	6,716	57,166	gal
PRO BREAKER 4	1.26	30	312	gal
BXL-10C	1.27	0	0	gal
PRO DRB-LT	1.81	0	0	gal
BUFFER 1	2.13	0	0	lb
POLY BREAK	1.20	0	0	gal
				gal
				gal
				gal
				gal
			Total Slurry Mass (Lbs)	
			80,070,697	

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Company 1	Carrier/Base Fluid	Water	7732-18-5	100.00%	71,376,237	89.14152%	
Sand (Proppant)	PSC	Proppant	Silica Substrate		100.00%	8,135,700	10.16065%	
Hydrochloric Acid (15%)	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0	10.00%	38,842	0.04851%	
PROHIB II	Producers Service Corp	Inhibitor	Dimethylcocoamine, bis(chloroethyl) ether, diquaternar	68607-28-3	40.00%	142	0.00018%	
			2-Butoxyethanol	111-76-2	20.00%	71	0.00009%	
			Ethylene Glycol	107-21-1	20.00%	71	0.00009%	
			Methyl Alcohol	67-56-1	20.00%	71	0.00009%	
			Nonyl Phenol Ethoxylate, Branched	127087-87-0	15.00%	53	0.00007%	
			Propargyl Alcohol	107-19-7	15.00%	53	0.00007%	
			Coco alkyldimethylamines	61788-93-0	2.50%	9	0.00001%	
			Water	7732-18-5	Proprietary	#VALUE!	#VALUE!	
FRA 407	Producers Service Corp	Friction Reducer	Petroleum Distillates	64742-47-8	40.00%	33,409	0.04172%	
			Polyacrylamide salt	Proprietary	30.00%	25,057	0.03129%	
			Sodium Chloride	7647-14-5	5.00%	4,176	0.00522%	
			Ammonium Chloride	12125-02-9	5.00%	4,176	0.00522%	
			Ethoxylate Alcohol	Proprietary	5.00%	4,176	0.00522%	
			Tall oil	Proprietary	2.00%	1,670	0.00209%	
			Proprietary Ingredient	Proprietary	1.00%	835	0.00104%	
			Water	7732-18-5	Proprietary	#VALUE!	#VALUE!	
PRO FLO 102 M	Producers Service Corp	Surfactant	Methyl Alcohol	67-56-1	60.00%	17,391	0.02172%	
			N-dodecyl-2-pyrrolidone	2687-96-9	5.00%	1,449	0.00181%	
			Water	7732-18-5	Proprietary	#VALUE!	#VALUE!	
			Ethoxylate Alcohol	Proprietary	Proprietary	#VALUE!	#VALUE!	
PRO BREAKER 4	Producers Service Corp	Breaker	Ethylene Glycol	107-21-1	40.00%	125	0.00016%	
			Sucrose	57-50-1	40.00%	125	0.00016%	
			Polyether Polyol	9003-11-6	1.00%	3	0.00000%	
			Sodium Bicarbonate	144-55-8	1.00%	3	0.00000%	
			Hexamethylenetetramine	100-97-0	1.00%	3	0.00000%	
			Proprietary Ingredient	Proprietary	1.00%	3	0.00000%	
			Proprietary Ingredient	Proprietary	1.00%	3	0.00000%	
			Proprietary Ingredient	Proprietary	1.00%	3	0.00000%	
			Water	7732-18-5	Proprietary	#VALUE!	#VALUE!	
PRO GEL 4.0L	Producers Service Corp	Gelling Agent	Distillates (Petroleum), hydrotreated light	64742-47-8	65.00%	37,158	0.04641%	
			Nonylphenol, Ethoxylate	9016-45-9	5.00%	2,858	0.00357%	
			Guar Gum	9000-30-0	50.00%	28,583	0.03570%	
			Nonionic Surfactant	60828-78-6	5.00%	2,858	0.00357%	

*Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

Received
Office of Oil & Gas
DEC 16 2015

103-03147

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

WEST VIRGINIA 811

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

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.

PLANS PREPARED BY:
BOORD BENCHEK & ASSOCIATES, INC.
ENGINEERING,SURVEYING, CONSTRUCTION AND MINING SERVICES
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

2-25-15
ANDREW BENCHEK
P.E.

PROPERTY OWNER PROJECT BOUNDARY ACREAGE

PROPERTY OWNER	PARCEL #	ACRES
WV DEPARTMENT OF NATURAL RESOURCES COMMERCE DIVISION	5-8-22	2.1
WV DEPARTMENT OF NATURAL RESOURCES COMMERCE DIVISION	5-8-8	0.4
JAMES & BETTY MCCOY	5-8-9	4.4
COASTAL FOREST RESOURCES	5-8-10.1	0.6
STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR	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	5-26-7	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	5-25-6	0.01
DALLISON TIMBER	5-23-37	0.5
J.S. BOOTH ESTATE	5-23-33	0.8
J.S. BOOTH ESTATE	5-23-18	0.1
JOHN S. KNIGHT	5-23-15	0.3
THEODORE & PAULA ASSAMEROUCH	5-21-26	1.2
HG ENERGY LLC	5-21-25.1	0.3
HG ENERGY LLC	5-21-25.2	0.1
WETZEL R. & DEBBIE BASSETT	5-23-17	0.1
TAMMY A. & DARLENE MORRIS	5-23-23	0.1
CLINTON & KAREN S. HARRIS	5-23-12	0.51
LLOYD J. & BETTY PRINE	5-23-38	1.1
COASTAL FOREST RESOURCES	5-23-8	7.6
	5-23-9	9.1

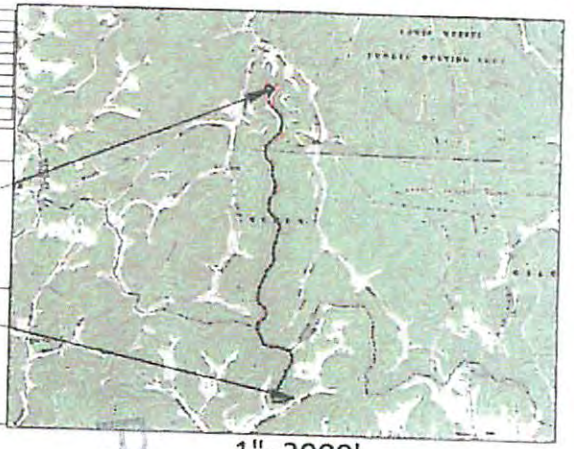
REVISIONS

NO.	DATE	DESCRIPTION

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°



1"=3000'

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.

DMH
12-24-15

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

SHEET
1
OF
60

Received
JAN 14 2016
Office of Oil and Gas
WV Dept. of Environmental Protection

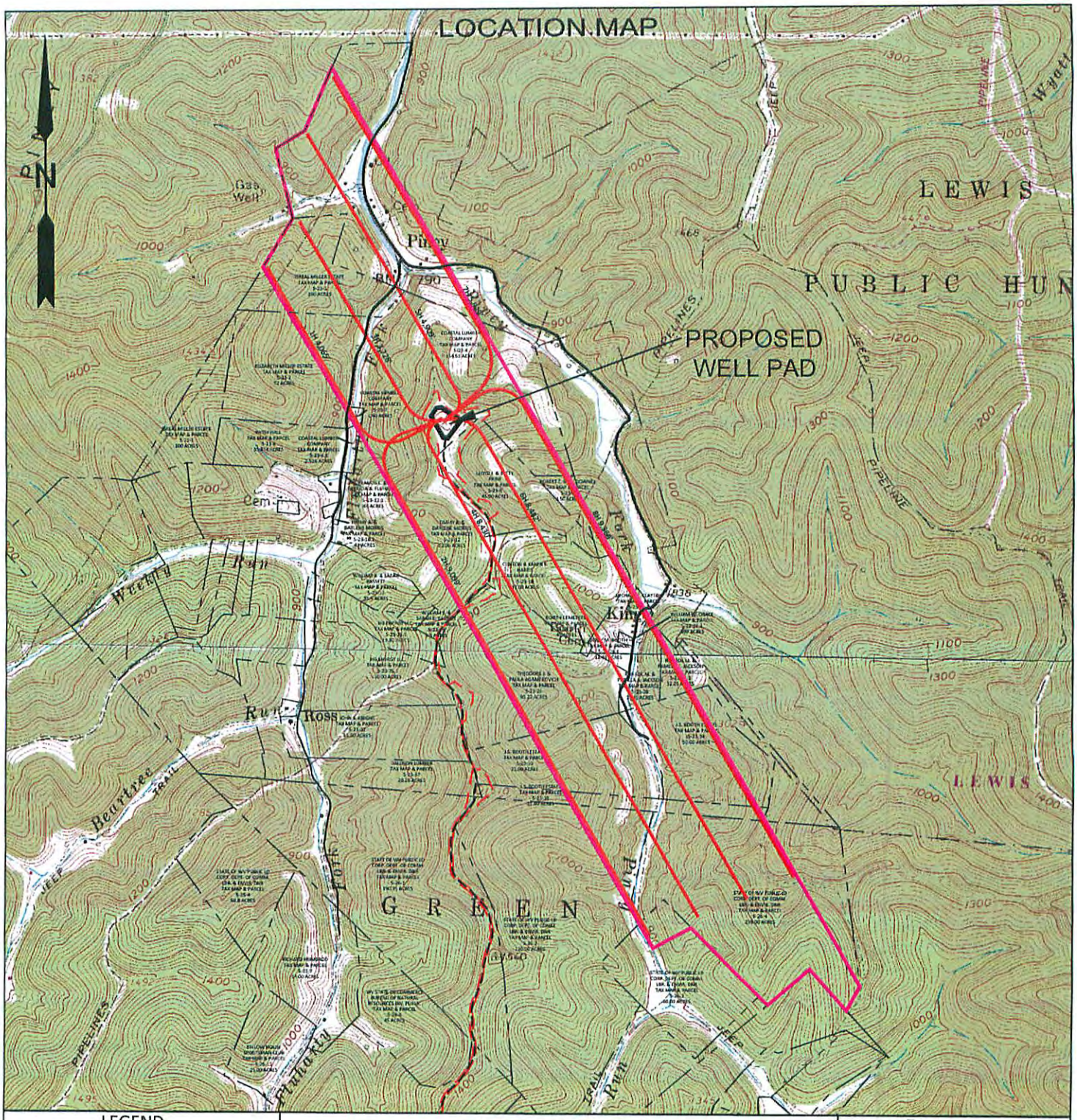
4703-03-047

DM4
12-24-15

Received
JAN 14 2016
Office of Oil and Gas
WV Dept. of Environmental Protection

4130-201

103-03147



LEGEND

- PROJECT BOUNDARY
- PROPERTY LINES
- WILEY LATERALS
- UNIT BOUNDARY

EXHIBIT "A"
SCALE BAR: 1"=2000'

0' 2000' 4000' 6000'

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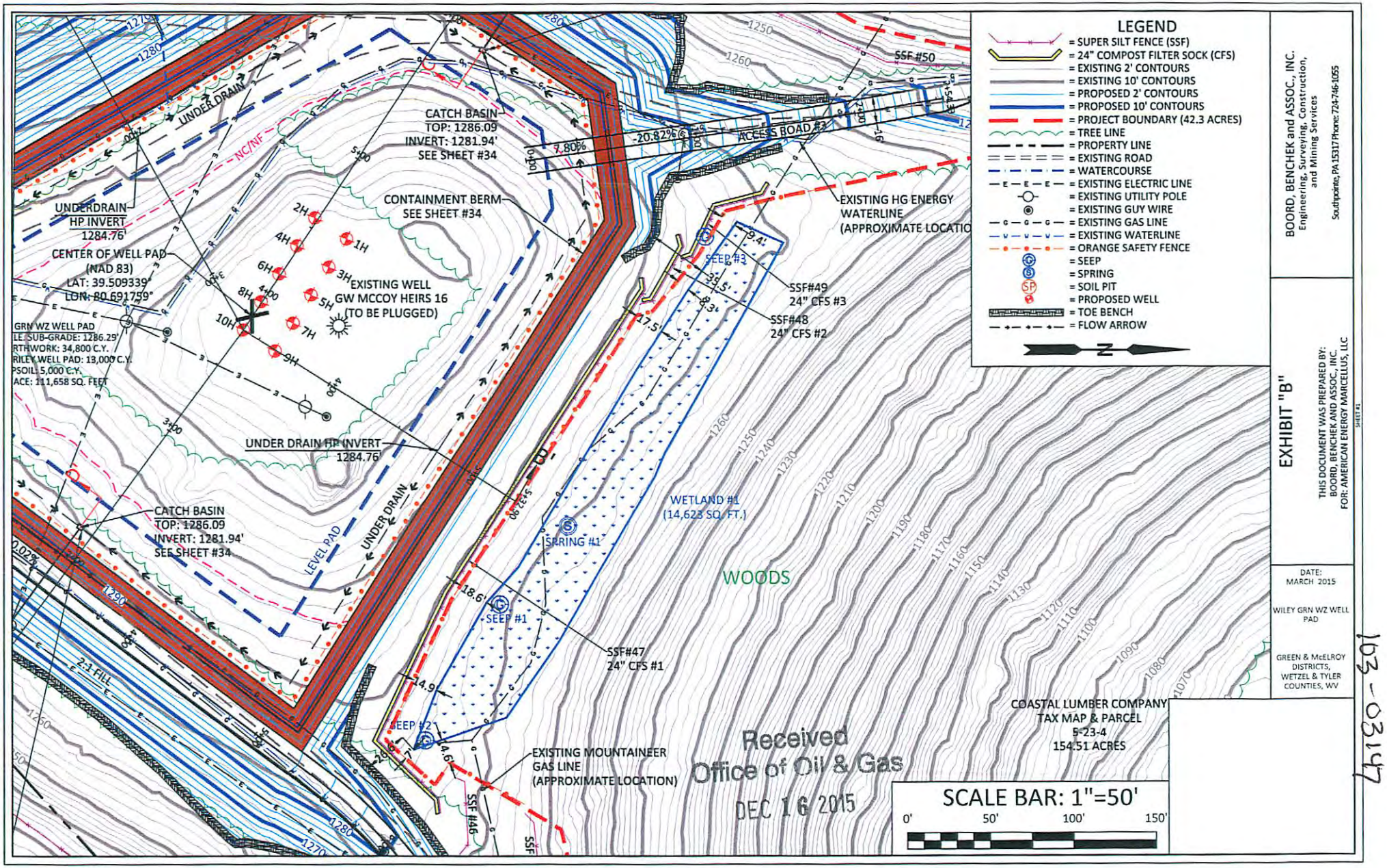
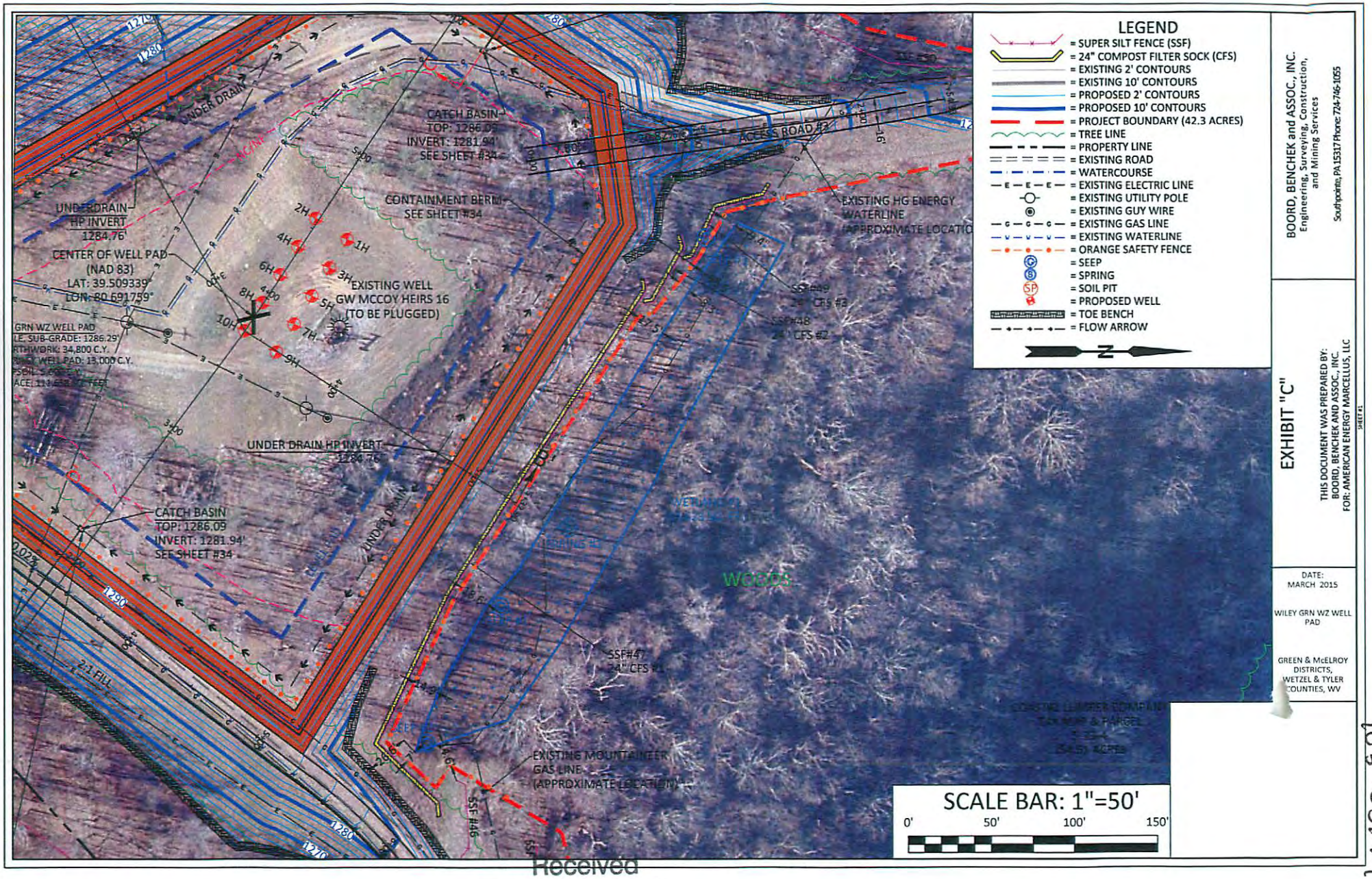
DEC 16 2015

Applicant / Well Operator Name: AMERICAN ENERGY MARCELLUS, LLC	Project Name: WILEY GRN WZ WELL PAD
Address: 1000 UTICA WAY CAMBRIDGE, OH 43725	County - Code: WETZEL-103 & TYLER-095
	Municipality: GREEN & McELROY DISTRICTS
	USGS 71/2 Quadrangle Map Name: CENTER POINT & PINE GROVE
	Map Section: 2,5,8


LEGEND
= SUPER SILT FENCE (SSF)
= 24" COMPOST FILTER SOCK (CFS)
= EXISTING 2' CONTOURS
= EXISTING 10' CONTOURS
= PROPOSED 2' CONTOURS
= PROPOSED 10' CONTOURS
= PROJECT BOUNDARY (42.3 ACRES)
= TREE LINE
= PROPERTY LINE
= EXISTING ROAD
= WATERCOURSE
= EXISTING ELECTRIC LINE
= EXISTING UTILITY POLE
= EXISTING GUY WIRE
= EXISTING GAS LINE
= EXISTING WATERLINE
= ORANGE SAFETY FENCE
= SEEP
= SPRING
= SOIL PIT
= PROPOSED WELL
= TOE BENCH
= FLOW ARROW
N
BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction, and Mining Services
Southpointe, PA 15317 Phone: 724-746-1055
EXHIBIT "B"
THIS DOCUMENT WAS PREPARED BY: BOORD, BENCHEK AND ASSOC., INC.
FOR: AMERICAN ENERGY MARCELLUS, LLC
DATE: MARCH 2015
WILEY GRN WZ WELL PAD
GREEN & McELROY DISTRICTS, WETZEL & TYLER COUNTIES, WV
CATCH BASIN TOP: 1286.09 INVERT: 1281.94' SEE SHEET #34
CONTAINMENT BERM SEE SHEET #34
UNDERDRAIN HP INVERT 1284.76'
CENTER OF WELL PAD (NAD 83) LAT: 39.509339° LON: 80.691759°
EXISTING WELL GW MCCOY HEIRS 16 (TO BE PLUGGED)
GRN WZ WELL PAD
LE SUB-GRADE: 1286.29'
RTHWORK: 34,800 C.Y.
RILEY WELL PAD: 13,000 C.Y.
PSOIL 5,000 C.Y.
ACE: 111,658 SQ. FEET
UNDER DRAIN HP INVERT 1284.76'
CATCH BASIN TOP: 1286.09 INVERT: 1281.94' SEE SHEET #34
ACCESS ROAD #3
EXISTING HG ENERGY WATERLINE (APPROXIMATE LOCATIO
SSF #50
SSF#49 24" CFS #3
SSF#48 24" CFS #2
SSF#47 24" CFS #1
SEEP #1
SEEP #2
SEEP #3
SPRING #1
WETLAND #1 (14,623 SQ. FT.)
WOODS
EXISTING MOUNTAINEER GAS LINE (APPROXIMATE LOCATION)
SSF #46
COASTAL LUMBER COMPANY TAX MAP & PARCEL 5-23-4 154.51 ACRES
SCALE BAR: 1"=50'
0' 50' 100' 150'
Received
Office of Oil & Gas
DEC 16 2015

103-03147



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4h120-201