



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

PERMIT MODIFICATION APPROVAL

November 06, 2015

ASCENT RESOURCES-MARCELLUS, LLC
3501 NW 63RD STREET
OKLAHOMA, OK 73116

Re: Permit Modification Approval for API Number 10303102, Well #: WILEY N GRN WZ
5H

Acquired additional lease/Extending lateral

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,


Gene Smith
for Assistant Chief of Permitting
Office of Oil and Gas

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

1) Well Operator: Ascent Resources-Marcellus

<u>494514693</u>	<u>Wetzel</u>	<u>Green</u>	<u>Center Point</u>
------------------	---------------	--------------	---------------------

Operator ID County District Quadrangle

2) Operator's Well Number: Wiley N GRN WZ 5H Well Pad Name: Wiley GRN WZ

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

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

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

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus, Approximate TVD 7277', approximate thickness 50', +/- 4600 psi

8) Proposed Total Vertical Depth: 7277'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13300'

11) Proposed Horizontal Leg Length: 5815'

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: _____

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	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#	13300'	13300'	4375
Tubing	2-7/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438	2110	50	Class A	1.2
Fresh Water	13-3/8"	17-1/2"	0.38	2740	600	Class A	1.2
Coal							
Intermediate	9-5/8"	12-1/4"	0.395	3520	1500	Premium H/50-50 Poz H	Tail 1.27, Lead 1.51
Production	5-1/2"	8-3/4"	0.361	12640	5000	Premium H/50-50 Poz H	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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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

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

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

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*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% 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

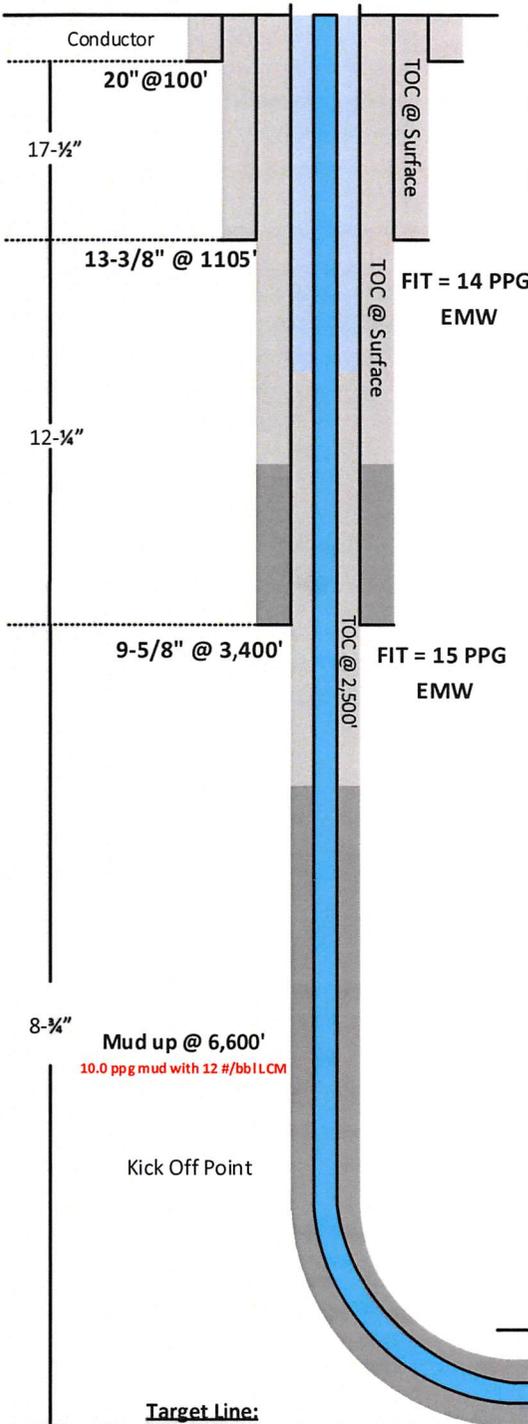
50/50 Poz H + 0.5 %FL 17 + 5% Gyp + 0.1% C41P + 0.15% C51 + 0.1% C20 Additives are FL-17, Gypsum, C41-P, C-51, and C-20

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 <p>AMERICAN ENERGY APPALACHIA</p>	Wiley N GRN WZ 5H			
	County, State: Wetzel, West Virginia	Township: Grant	Location:	Formation: Marcellus
	Coord inates: NAD 27	SHL Lat/Long: 39.509354 N, 80.691983 W	RKB / Elevation:	AFE DC/CWC:
	BHL Lat/Long:	Target Line: 7,277' TVD @ 0° VS, 90.5 Inc, 330 Azi	535'	Property #: AFE #:



Interval	Hole size (in)	Size (in)	Weight #/ft	Grade	Conn.	Collapse (PSI)	Burst (PSI)	Depth (ft)	Cost \$/ft
Conductor	26"	20"	-	-	-	-	-	100	-
Surface	17-1/2"	13-3/8"	54.5	J-55	BTC	1,130	2,740	1,105	36
Intermediate	12-1/4"	9-5/8"	36	J-55	LTC	2,020	3,520	3,400	22
Production	8-3/4"	5-1/2"	20	P-110	ULT-DOX	11,110	12,640	13,300	22

Interval	Slurry	Weight	Ft ³	Yield	Excess	Cement Top
Conductor	Tall	15.6 ppg	330	1.20 cuft/sk	50%	Surface
	Lead	15.6 ppg	320	1.20 cuft/sk	50%	Surface
Surface	Tall	13.5 ppg	250	1.51 cuft/sk	30%	Surface
	Lead	15.3 ppg	1150	1.27 cuft/sk	30%	700
Intermediate	Tall	13.5 ppg	1000	1.51 cuft/sk	10%	2500
	Lead	15.3 ppg	1830	1.27 cuft/sk	10%	6300

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	3,198'	-1,883'
Middlesex	6,952'	-5,637'
Geneseo	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'
Target	7,277'	-5,962'
Onondaga	7,285'	-5,970'
Oriskany		

8-3/4" Curve and Lateral | 5-1/2" Casing @ 13,300'

Target Line:
7,277' TVD @ 0° VS, 90.5° Inc, 330° Azi

AIR INTERVALS					SYNTHETIC COIL BASED MUD INTERVAL									
Interval	Depth (MD)	Rate (cfpm)	Water (bbl/hr)	Foamer (gal/hr)	Interval	Depth (MD)	Weight (#/gal)	Viscosity (sec/qt)	HTHP (mi/30min)	PV (cps)	YP (#/100ft)	6 RPM	WPS ppm	OWR % by vol
Surface	0'-1105'	>5000	30-50	1/2-3/4	Vertical	6,600'-6,723'	10.0-10.5	50-60	4-6	18-24	10-12	6-9	150K - 180K	75:25 - 70:30
Intermediate	1105'-3,400'	>5000	30-50	1/2-3/4	Curve	6,723'-7,623'	10.5-13.5	50-60	4-6	18-24	10-12	6-9		
Vart/Nudge	3,400'-6,600'	>5000	40-60	3/4-1	Lateral	7,623'-13,300'	13.5-13.7	50-60	4-6	18-24	10-12	6-9		

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WW-6A1
(5/13)

Operator's Well No. Wiley N GRN WZ 5H

**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
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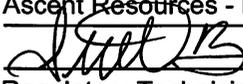
Please see attached.

**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
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Page 1 of 2

103-03102 Mon

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE

Chapter 22, Article 6A, Section 5(a)(5)

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Table with columns: Tract, Parcel No., Fee/Lease No., Lessor/Assignor, Lessee/Assignee, Royalty/Instrument, Book/Page. Contains multiple rows of lease and assignment data for various tracts (1-6).

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03 2015

WV Department of Environmental Protection

103-03102 RevD

WILEY GRN WZ WELL PAD GREEN & MCELROY DISTRICTS, WETZEL & TYLER COUNTIES, WV FEBRUARY 2015

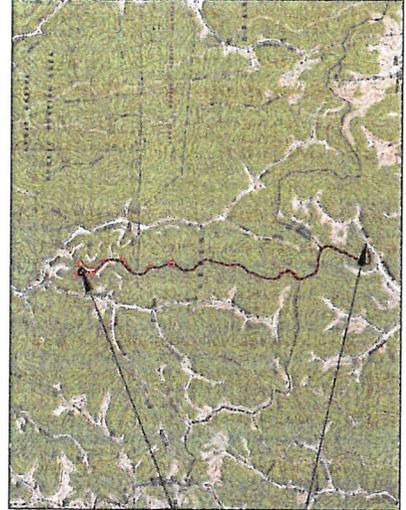
PLANS PREPARED BY:
BOORD BENCHEK & ASSOCIATES, INC.
ENGINEERING SURVEYING, CONSTRUCTION AND MINING SERVICES
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055



Andrew Benchek
ANDREW BENCHEK
P.E.

SHEET INDEX
1. TITLE SHEET
2-3. EVACUATION ROUTE/PREVALENT 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.



1"=3000'



PROPERTY OWNER PROJECT BOUNDARY ACREAGE

PARCEL #	ACRES	REVISIONS
1	0.1	NO. DATE DESCRIPTION
2	0.1	
3	0.1	
4	0.1	
5	0.1	
6	0.1	
7	0.1	
8	0.1	
9	0.1	
10	0.1	
11	0.1	
12	0.1	
13	0.1	
14	0.1	
15	0.1	
16	0.1	
17	0.1	
18	0.1	
19	0.1	
20	0.1	
21	0.1	
22	0.1	
23	0.1	
24	0.1	
25	0.1	
26	0.1	
27	0.1	
28	0.1	
29	0.1	
30	0.1	
31	0.1	
32	0.1	
33	0.1	
34	0.1	
35	0.1	
36	0.1	
37	0.1	
38	0.1	
39	0.1	
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41	0.1	
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44	0.1	
45	0.1	
46	0.1	
47	0.1	
48	0.1	
49	0.1	
50	0.1	
51	0.1	
52	0.1	
53	0.1	
54	0.1	
55	0.1	
56	0.1	
57	0.1	
58	0.1	
59	0.1	
60	0.1	

COORDINATES

CENTER OF WELLS
(NAD 83)
LAT: 39.5094909"
LONG: 80.691827"
(NAD 27)
LAT: 39.5093327"
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

IN ACCORDANCE WITH WV 35 CSR 8
THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN
DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES
(BMP) AND THE WV EROSION CONTROL AND SEDIMENTATION
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.

OWNER



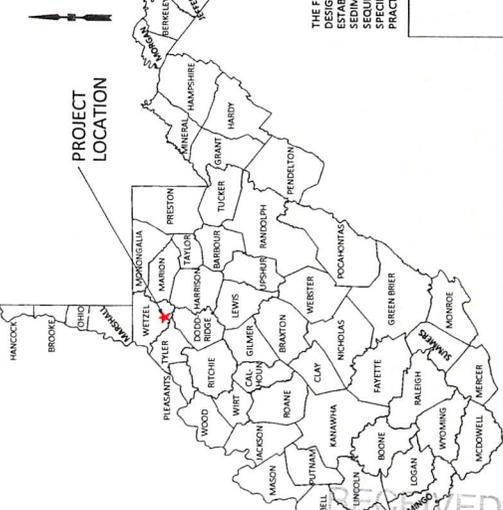
**AMERICAN ENERGY
MARCELLUS**

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

**APPROVED
WV DEP OOG**

Andrew Benchek
5/28/15

PROJECT LOCATION



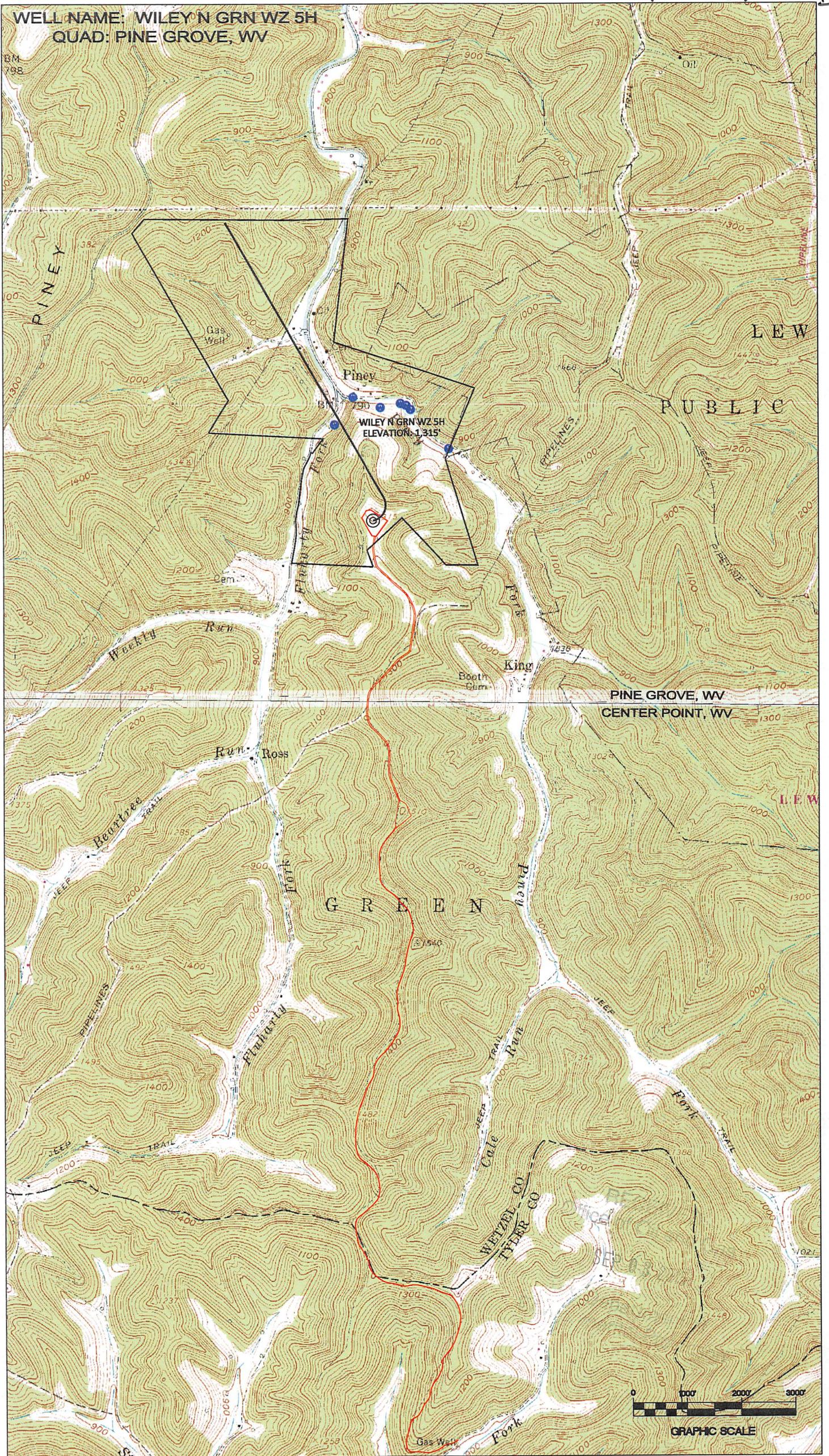
WEST VIRGINIA 811

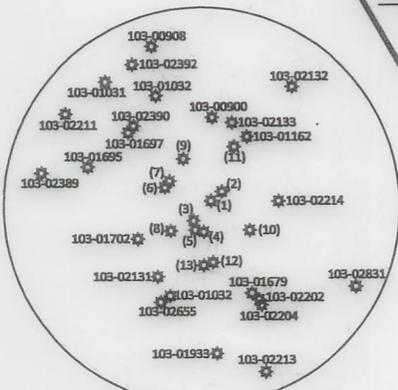
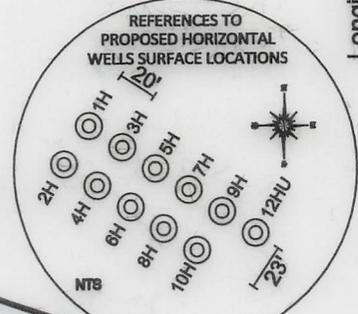
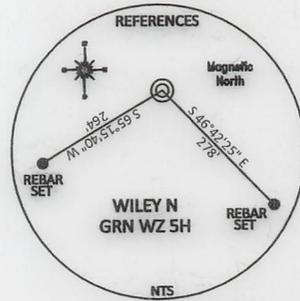
TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC. 1-800-245-4848
TICKET NUMBER: 1503403104

SEP 03 2015

Office of Oil and Gas
WV Department of Environmental Protection

WELL NAME: WILEY N GRN WZ 5H
QUAD: PINE GROVE, WV





API NUMBER	BEARING	DISTANCE
(1) 103-00781	N 47° 38' 08" E	24.83'
(2) Found in Field	N 49° 17' 03" E	249.45'
(3) Found in Field	S 42° 01' 52" W	391.91'
(4) 103-02134	S 11° 48' 25" W	474.55'
(5) 103-00860	S 28° 21' 04" W	495.45'
(6) 103-00674	N 71° 58' 41" W	749.89'
(7) 103-01696	N 62° 53' 27" W	720.91'
(8) 103-02393	S 54° 26' 01" W	764.67'
(9) 103-00901	N 31° 46' 57" W	801.14'
(10) 103-02505	S 54° 55' 58" E	763.61'
(11) 103-30621	N 23° 43' 02" E	948.08'
(12) 103-02504	S 02° 56' 07" E	940.76'
(13) 103-72663	S 05° 50' 03" W	991.42'

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

TOP HOLE (UTM NAD 83)
 N) 4373357.0
 E) 526494.8
 BOTTOM HOLE (UTM NAD 83)
 N) 4375007.4
 E) 525640.7

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: EAJ

FILE #: AE003
 DRAWING #: 2484
 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



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

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

WATERSHED: FISHING CREEK
 COUNTY/DISTRICT: WETZEL / GREEN
 SURFACE OWNER: COASTAL LUMBER COMPANY
 OIL & GAS ROYALTY OWNER: CHARLES W. McCOY Jr. ET AL
 LEASE NUMBERS:

DATE: August 26, 2015
 OPERATOR'S WELL #: WILEY N GRN WZ 5H
 API WELL #: 47 103 03102 H6A-MOD.
 STATE COUNTY PERMIT

ELEVATION: 1315' = Current
 1286.29' = Proposed
 QUADRANGLE: PINE GROVE, WV
 CENTER POINT, WV
 ACREAGE: 154.51 +/-
 ACREAGE: 394.42 +/-

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):
 TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: TVD: 7,277' TMD: 13,400'
 WELL OPERATOR: Ascent Resources - Marcellus, LLC
 ADDRESS: 3501 NW 63rd Street
 CITY: Oklahoma City STATE: OK ZIP CODE: 73116
 DESIGNATED AGENT: Eric B. Gillespie
 ADDRESS: 100 Star Ave Suite 120
 CITY: Parkersburg STATE: WV ZIP CODE: 26101

SURFACE HOLE DEC. LAT: 39.509854
 SURVEYED LAT: 39° 30' 35.7"

Adkins, Laura L

From: Adkins, Laura L
Sent: Thursday, October 08, 2015 12:39 PM
To: 'Ariel Bravo'
Subject: Wiley N GRN WZ Mod

Ariel,

I have a modification for the Wiley N GRN WZ 5H.....Is this the only mod for this pad that you have requested? I don't see a cover letter with it....it could be on another modification request but the only others I see are for the Reilly Pad. If this is the only one for the Wiley then please email a cover letter on letterhead detailing the modification that is being requested.

Thanks!!

Laura

Laura L. Adkins

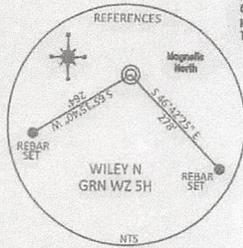
Environmental Resource Specialist III
Permit Review
WVDEP Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
304-926-0499 ext. 1495

THE ITEMS REQUESTED IN THIS EMAIL WILL NEED TO BE RECEIVED BY THE OFFICE OF OIL AND GAS WITHIN **20 DAYS** TO AVOID THE PERMIT APPLICATION BEING RETURNED. IF AN OPERATOR WISHES TO RESUBMIT AN APPLICATION THAT HAS BEEN RETURNED, THE OPERATOR IS REQUIRED TO COMPLETE AND SUBMIT NEW FORMS, MYLAR PLAT AND ASSOCIATED FEES.

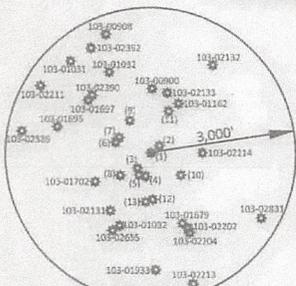
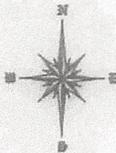
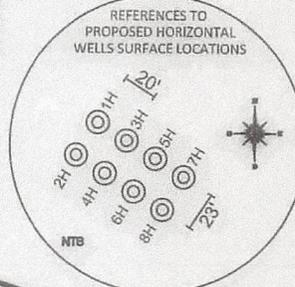
SURFACE HOLE DEC. LONG: 80.891983
 SURVEYED LONG: 80° 41' 31.1"

Latitude: 39° 32' 30" (NAD27)

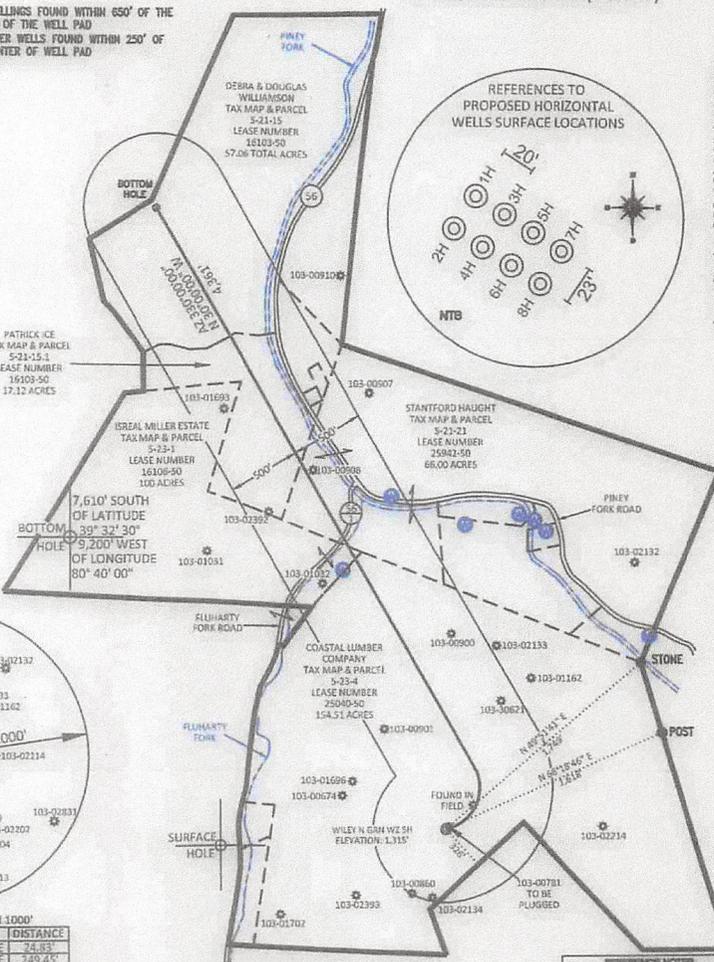
Longitude: 80° 40' 00" (NAD27)



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



API NUMBER	BEARING	DISTANCE
(1) 103-02711	N 47° 33' 00" E	74.83'
(2) Found in Field	N 49° 17' 03" E	249.45'
(3) Found in Field	S 42° 01' 53" W	391.91'
(4) 103-02134	S 31° 48' 25" W	474.55'
(5) 103-01650	S 26° 21' 04" W	435.25'
(6) 103-02674	N 71° 45' 41" W	749.89'
(7) 103-01696	N 62° 53' 22" W	720.91'
(8) 103-02395	S 54° 26' 01" W	764.67'
(9) 103-02901	N 31° 26' 57" W	801.14'
(10) 103-02505	S 54° 55' 58" E	753.61'
(11) 103-02651	N 23° 33' 07" E	866.30'
(12) 103-02504	S 02° 56' 07" E	940.76'
(13) 103-26663	S 05° 50' 09" W	991.42'



TOP HOLE (UTM NAD 83)
 N) 4373357.0
 E) 526494.8
 BOTTOM HOLE (UTM NAD 83)
 N) 4374627.4
 E) 525868.6

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 EAJ

FILE #: AE003
 DRAWING #: 2484
 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: *[Signature]*
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304
 Well Type: Oil Waste Dipsal 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: _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____
 TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: TVD: 7,277' TMD: 12,300'
 WELL OPERATOR: American Energy-Marcellus LLC.
 ADDRESS: 3501 NW 63rd Street
 CITY: Oklahoma City STATE: OK ZIP CODE: 73116
 DATE: FEBRUARY 24, 2015
 OPERATOR'S WELL #: WILEY N GRN WZ 5H
 API WELL #: 47103-01031 02102 HGA
 STATE COUNTY PERMIT
 ELEVATION: 1315' = Current
 1286.29' = Proposed
 QUADRANGLE: PINE GROVE CENTER POINT, WV
 ACREAGE: 154.51 +/-
 ACREAGE: 394.42 +/-

103-03102 Mon



August 20, 2015

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Laura Adkins or whomever concerned
601 57th Street
Charleston, West Virginia 25304

Re: Application for a Permit to Drill
Wiley N GRN WZ 3H, 5H and 7H

Dear Ms. Adkins,

Ascent Resources – Marcellus, LLC respectfully submits the following revisions to amend the existing permits for the subject wells. Enclosed you will find a revised WW-6B, wellbore diagrams, plats and WW-6A1 for the three wells referenced above located in Green District, Wetzel County, West Virginia.

If you need any additional information, please feel free to contact me.

Best Regards,

A handwritten signature in blue ink, appearing to read 'Ariel Bravo', with a long horizontal flourish extending to the right.

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

RECEIVED
Office of Oil and Gas

SEP 03 2015

WV Department of
Environmental Protection