



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
Assistant Chief of Permitting
Office of Oil and Gas

for

Promoting a healthy environment.

11/06/2015

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: _____

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 H50-50 Poz H | Tail 1.27, Lead 1.51 |
| Production | 5-1/2" | 8-3/4" | 0.361 | 12640 | 5000 | Premium H50-50 Poz H | Tail 1.27, Lead 1.51 |
| Tubing | 2-7/8" | 4.778" | 0.19 | 11100 | | | |
| Liners | | | | | | | |

PACKERS

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

RECEIVED
Office of Oil and Gas

SEP 03 2015

Page 2 of 3

11/06/2015

WV Department of
Environmental Protection

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.

RECEIVED
Office of Oil and Gas

*Note: Attach additional sheets as needed.

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

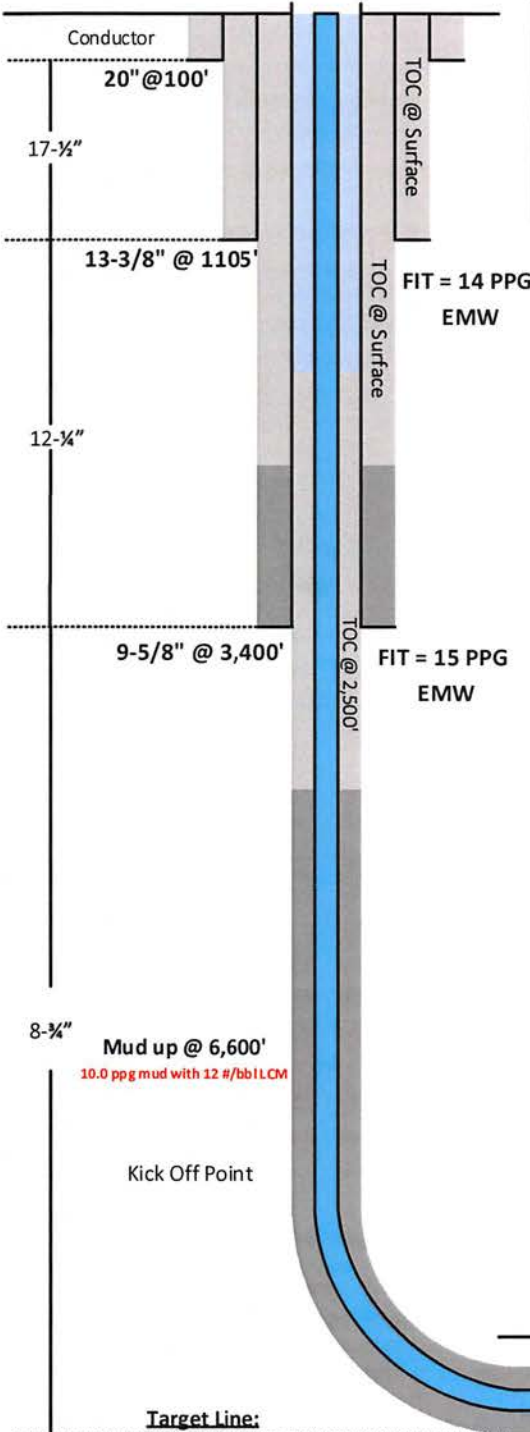
50/50 Poz H + 0.5 %FL 17 +5% Gyp + 0.1%C41P + 0.15% C51 + 0.1% C20 Additives are FL-17, Gypsum, C41-P, C-51, and C-20

RECEIVED
Office of Oil and Gas

SEP 03 2015 11/06/2015

WV Department of
Environmental Protection

| | | | | |
|--|--|--|-----------|------------------|
|  <p>AMERICAN ENERGY APPALACHIA</p> | <h1>Wiley N GRN WZ 5H</h1> | | | |
| | County, State: | Township: | Location: | Formation: |
| | Wetzel, West Virginia | Grant | | Marcellus |
| | Coord inates: | SHL Lat/Long: 39.509354 N, 80.691983 W | | RKB / Elevation: |
| NAD 27 | BHL Lat/Long: | | | USDW: |
| Rig: | 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 | 15.6 ppg | 320 | 1.20 cuft/sk | 50% | Surface |
| | Lead | 15.6 ppg | 320 | 1.20 cuft/sk | 50% | Surface |
| Intermediate | Lead | 13.5 ppg | 250 | 1.51 cuft/sk | 30% | 700 |
| | Tall | 13.5 ppg | 1150 | 1.27 cuft/sk | 30% | 2500 |
| Production | Lead | 13.5 ppg | 1000 | 1.51 cuft/sk | 10% | 6300 |
| | Tall | 13.5 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 | | |

| 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 (ml/30min) | PV (cps) | YP (lb/100ft ³) | SRPM | 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 | 75:25 |
| 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 | 150K | 70:30 |
| 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 | 150K | 70:30 |

RECEIVED
Office of Oil and Gas
SEP 03 2015
11/06/2015
Environmental Protection

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 |
|-------------------------|-----------------------|-----------------------|---------|-----------|
|-------------------------|-----------------------|-----------------------|---------|-----------|

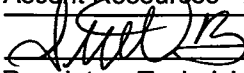
Please see attached.

**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
RECEIVED
Office of Oil and Gas

SEP 03 2015
Page 1 of 2

103-03102 Mon

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:

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).

RECEIVED
Oil and Gas
03 2015

103-03102 Nov

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



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.



PROPERTY OWNER PROJECT BOUNDARY ACREAGE

| PARCEL # | ACRES | REVISIONS |
|----------|-------|-----------|
| 1 | 0.1 | |
| 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 | |
| 40 | 0.1 | |
| 41 | 0.1 | |
| 42 | 0.1 | |
| 43 | 0.1 | |
| 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 | |

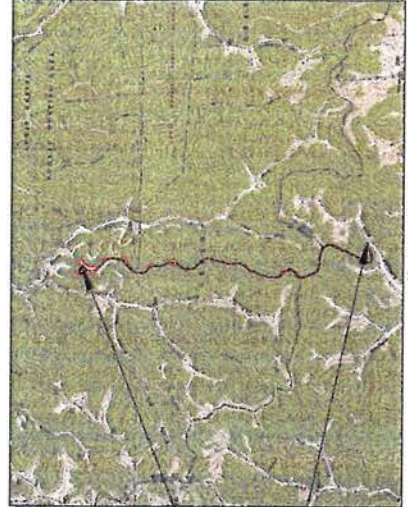
COORDINATES

CENTER OF WELLS
(NAD 83)
LAT: 39.509409°
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°



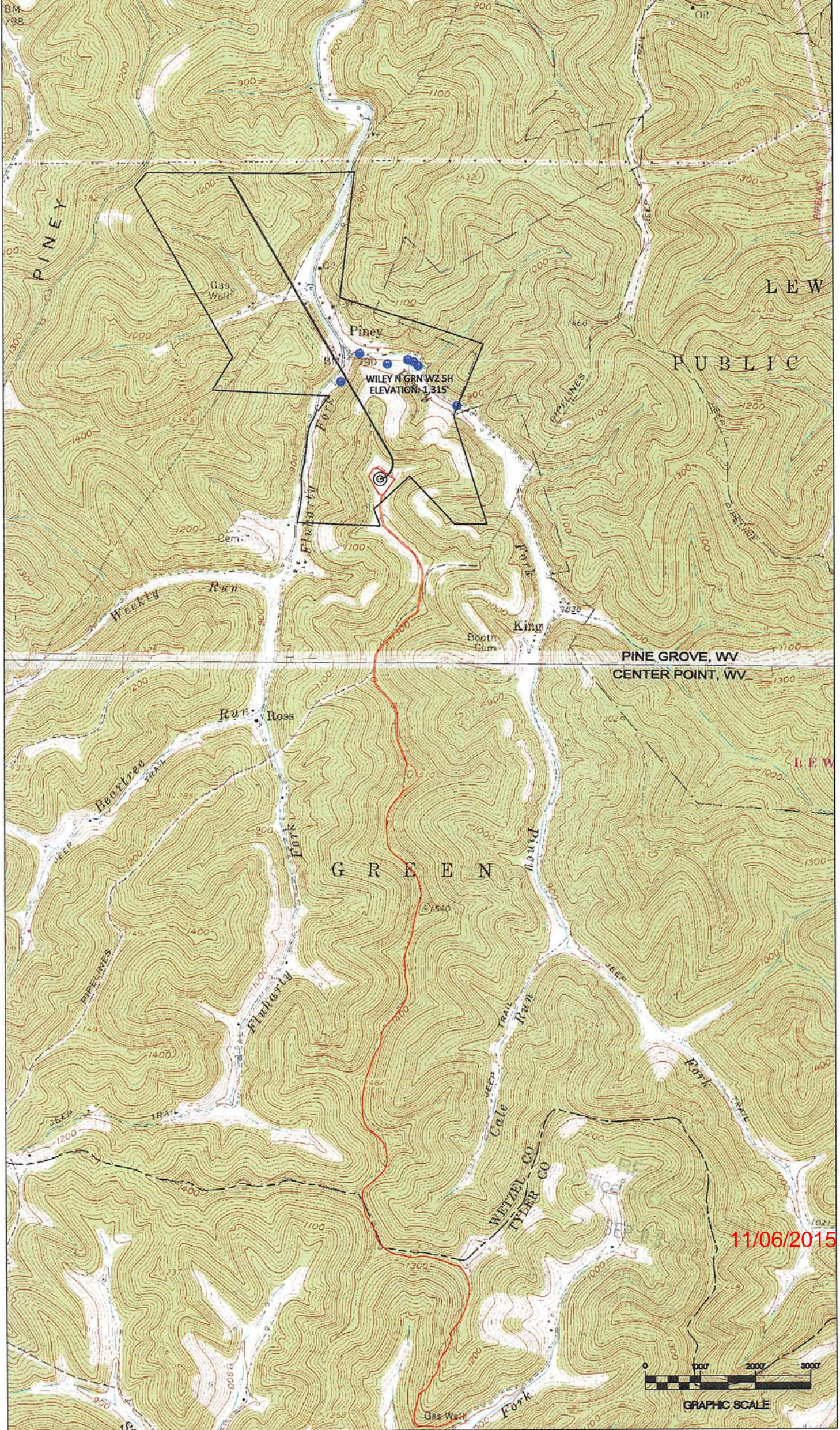
1" = 3000'

SHEET
1
OF
60

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

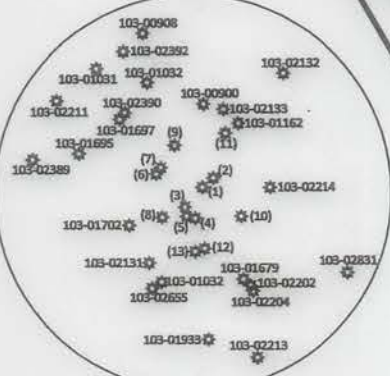
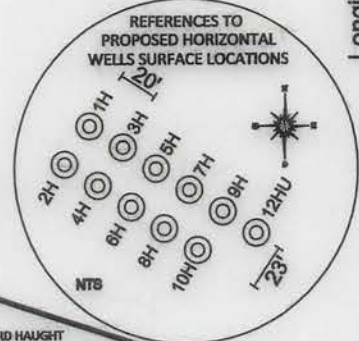
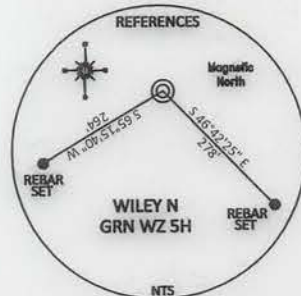
IN ACCORDANCE WITH WV 35 CSR 8
THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN
DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES
(BMP) AND SEDIMENTATION CONTROL. THIS PLAN IS TO BE USED IN CONJUNCTION AND
SEDIMENT CONTROL FIELD MANUAL, A GENERAL CONSTRUCTION
SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS &
SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT
PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS.

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



11/06/2015





| 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' |

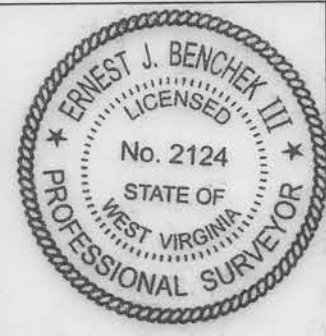
NO DWELLINGS FOUND WITHIN 650' OF THE CENTER OF THE WELL PAD
NO WATER WELLS FOUND WITHIN 250' OF THE CENTER OF WELL PAD

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 EAJM

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:
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
DATE: August 26, 2015
OPERATOR'S WELL #: WILEY N GRN WZ 5H
API WELL #: 47 103 03102 H6A-
STATE COUNTY PERMIT MOD.
ELEVATION: 1315' = Current 1286.29' = Proposed
QUADRANGLE: PINE GROVE, WV CENTER POINT, WV
ACREAGE: 154.51 +/- 11/06/2015
ACREAGE: 394.42 +/-

SURFACE HOLE DEC. LAT: 39.508854
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

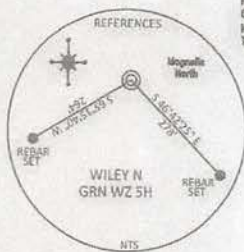
THE ITEMS REQUESTED IN THIS EMAIL WILL NEED TO BE RECEIVED BY THE OFFICE OF OIL AND GAS WITHIN **20 DAYS** TO AVOID THE PERMIT APPLICATION BEING RETURNED. IF AN OPERATOR WISHES TO RESUBMIT AN APPLICATION THAT HAS BEEN RETURNED, THE OPERATOR IS REQUIRED TO COMPLETE AND SUBMIT NEW FORMS, MYLAR PLAT AND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

SURFACE HOLE DEC. LONG: 80.891883
SURVEYED LONG: 80° 41' 31.1"

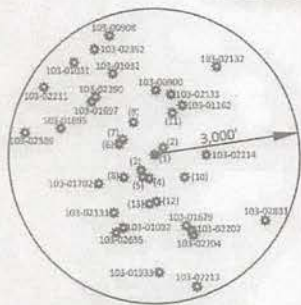
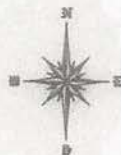
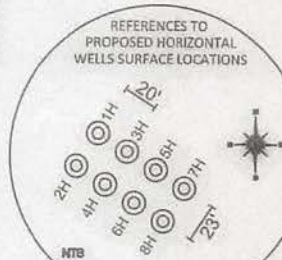
7,150'

Latitude: 39° 32' 30" (NAD27)

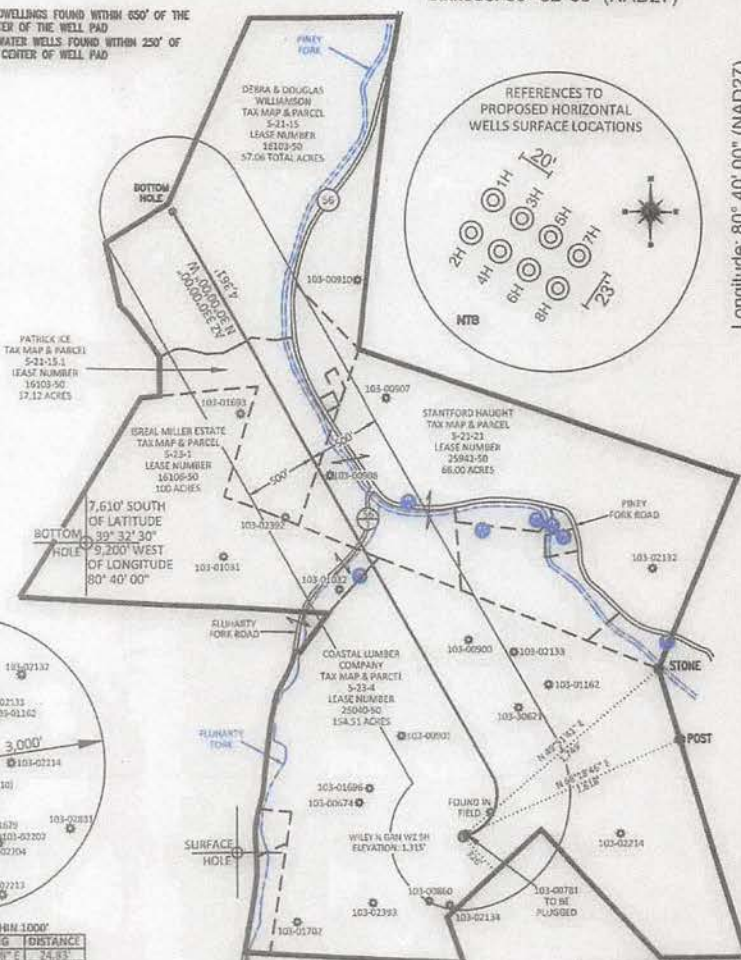
Longitude: 80° 40' 00" (NAD27)



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 |
|------------|-----------------|----------|
| 103-02071 | N 12° 35' 30" E | 724.83 |
| 103-02072 | N 48° 17' 33" E | 729.25 |
| 103-02073 | S 42° 01' 52" W | 391.91 |
| 103-02184 | S 11° 28' 25" W | 474.55 |
| 103-02080 | S 28° 21' 15" W | 435.55 |
| 103-02074 | N 71° 45' 41" W | 729.25 |
| 103-02096 | N 60° 53' 12" W | 720.91 |
| 103-02303 | S 54° 28' 01" W | 784.67 |
| 103-02001 | N 31° 26' 57" W | 801.14 |
| 103-02305 | S 56° 05' 58" E | 763.53 |
| 103-02051 | N 21° 43' 01" E | 955.08 |
| 103-02504 | S 02° 58' 07" E | 940.76 |
| 103-22603 | S 05° 50' 02" 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, nupona grade GPS
Drafted by EAK

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 Diposal Production Deep
 Gas Liquid Injection Storage Shallow
WATERSHED: FISHING CREEK
COUNTY/DISTRICT: WETZEL / GREEN
SURFACE OWNER: COASTAL LUMBER COMPANY
OIL & GAS ROYALTY OWNER: *William H. McCoy*
LEASE NUMBERS:
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

DATE: FEBRUARY 24, 2015
OPERATOR'S WELL #: WILEY N GRN WZ 5H
API WELL #: *47103* STATE COUNTY PERMIT *02102-HGA*
ELEVATION: 1315' = Current
1286.29' = Proposed
QUADRANGLE: *PINE GROVE CENTER POINT, WV*
ACREAGE: 154.51 +/-
ACREAGE: 394.42 +/-
ESTIMATED DEPTH: TVD: 7,277' TMD: 12,300'
DESIGNATED AGENT: Eric B. Gillespie
ADDRESS: 3501 NW 63rd Street
CITY: Oklahoma City STATE: OK ZIP CODE: 73116
ADDRESS: 103 Taryn Lane
CITY: Cross Lanes STATE: WV ZIP CODE: 25313

11/06/2015

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

11/06/2015