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west virginia department of environmental protection

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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](http://www.dep.wv.gov)

## PERMIT MODIFICATION APPROVAL

March 31, 2014

ANTERO RESOURCES APPALACHIAN CORPORATION  
1625 17TH STREET, SUITE 300  
DENVER, CO 80202

Re: Permit Modification Approval for API Number 1706206 , Well #: VIOLET UNIT 1H  
**Bottom Hole Moved**

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,

for  
Gene Smith  
Regulatory/Compliance Manager  
Office of Oil and Gas



January 26<sup>th</sup>, 2014

Antero Resources  
1625 17th Street  
Denver, Colorado 80202  
Office 303.357.7310  
Fax 303.357.7315

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
Attn: Ms. Laura Cooper  
601 57<sup>th</sup> Street  
Charleston, WV 25304

Ms. Laura Cooper:

Antero Resources Corporation (Antero) would like to submit the following permit modification for an approved well on the Vogt Pad. We are requesting to change the bottom hole of the Violet Unit 1H (API#47-017-06206); however, the measured depth will stay the same as originally permitted.

Attached you will find the following documents:

- REVISED Form WW-6A1, which shows the leases we will be drilling into
- REVISED Mylar Plat, which shows the new bottom hole location

If you have any questions please feel free to contact me at (303) 357-7323.

Thank you in advance for your consideration.

Sincerely, -

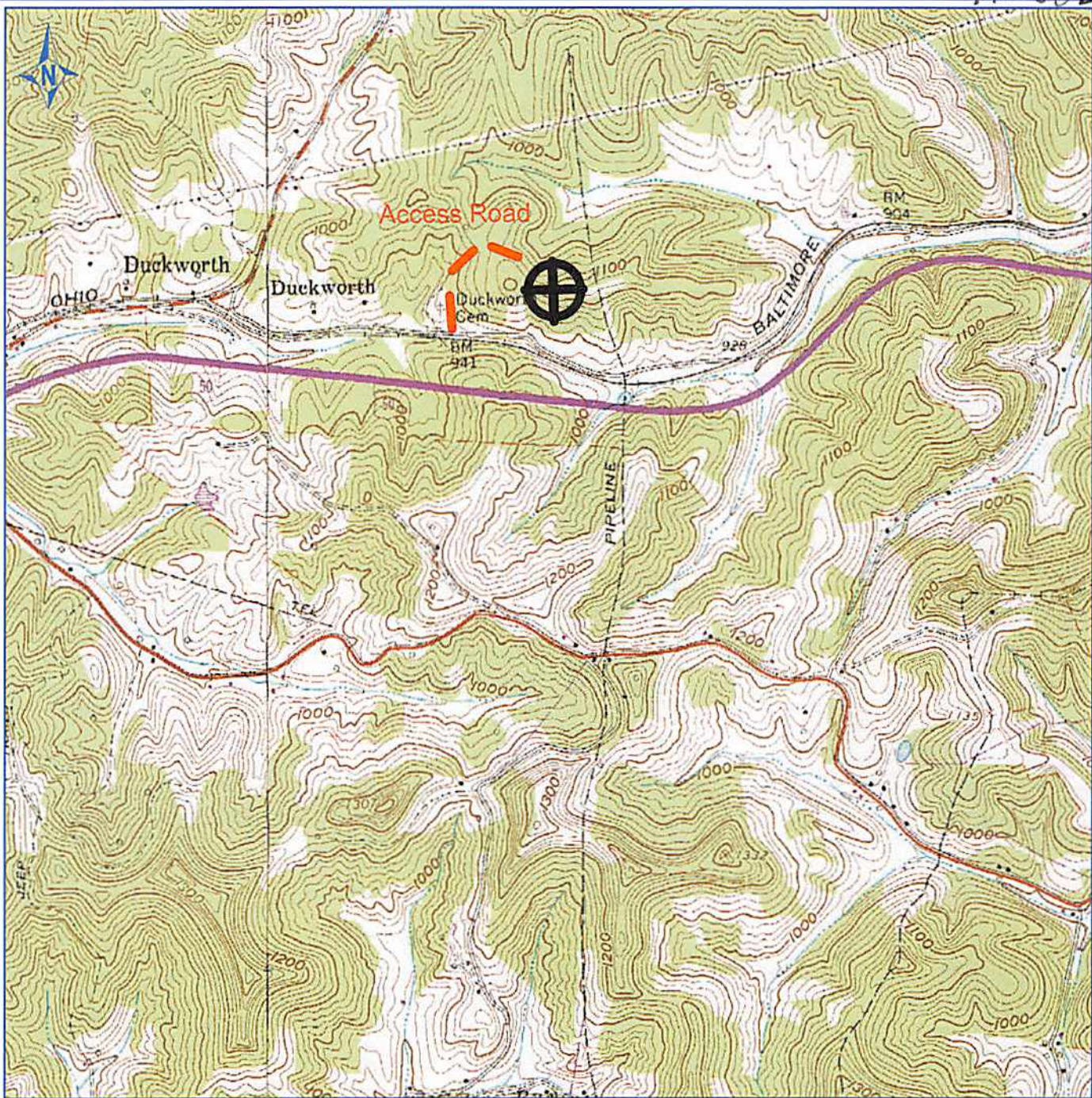
A handwritten signature in blue ink, appearing to read "Ashlie Mihalcin".

Ashlie Mihalcin  
Permit Representative  
Antero Resources Corporation

Enclosures

Received  
MAR - 5 2014  
Office of Oil and Gas  
WV Dept. of Environmental Protection

04/04/2014



PETRA 10/19/2012 9:31:07 AM

**ANTERO RESOURCES CORPORATION**

APPALACHIAN BASIN

Violet Unit 1H

Doddridge County



REMARKS  
 QUADRANGLE: WEST UNION  
 WATERSHED: TRIB. OF WILHELM RUN  
 DISTRICT: CENTRAL

October 19, 2012

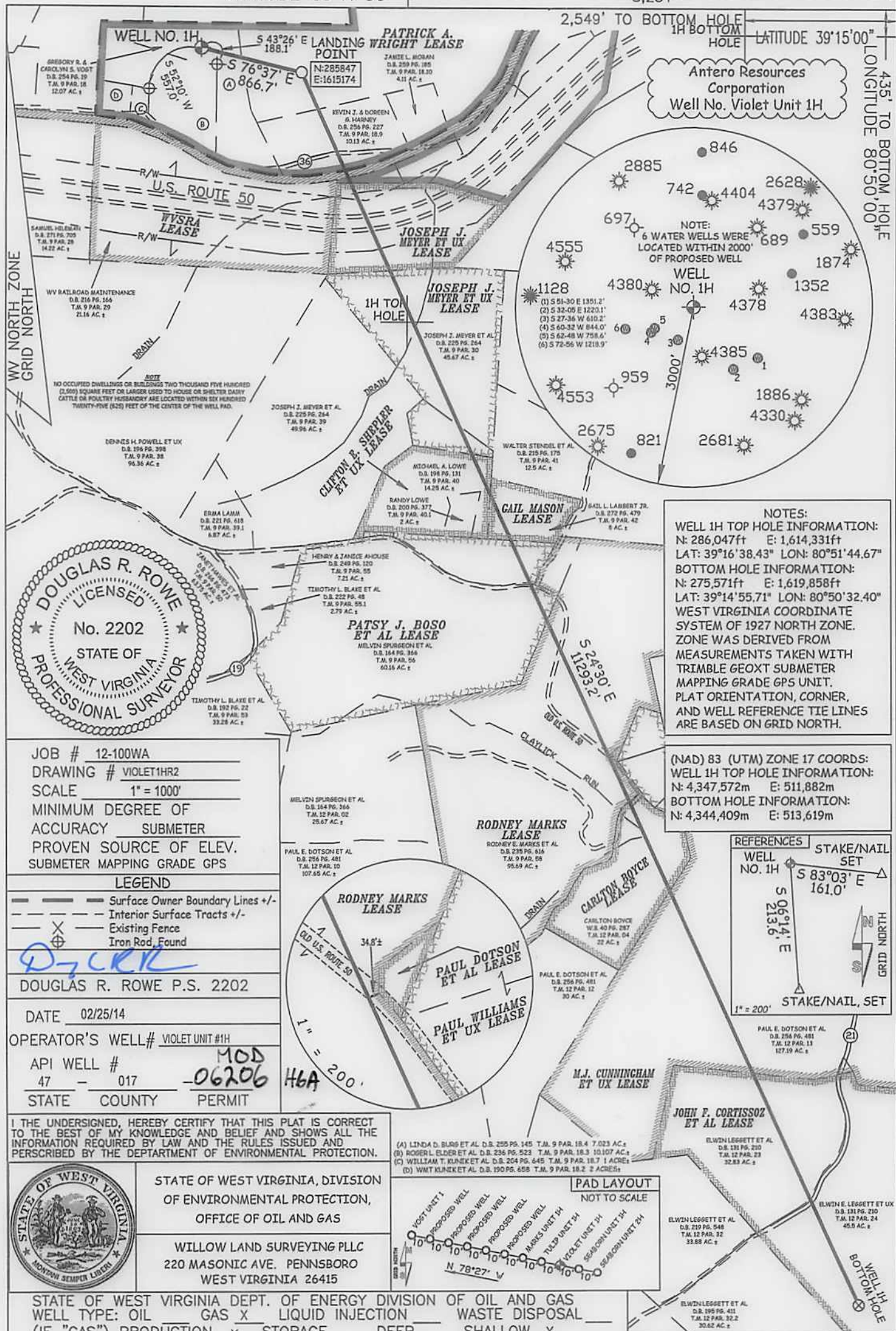
17-06206 H6A      VIOLET UNIT 1H  
 ANTERO RESOURCES

PAD NAME: VOGT

04/04/2014

LATITUDE 39°17'30"

8,231'

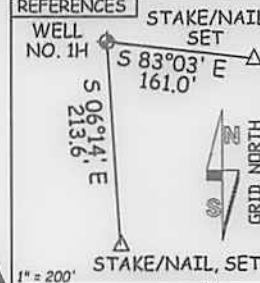


Antero Resources Corporation  
Well No. Violet Unit 1H



NOTES:  
WELL 1H TOP HOLE INFORMATION:  
N: 286,047ft E: 1,614,331ft  
LAT: 39°16'38.43" LON: 80°51'44.67"  
BOTTOM HOLE INFORMATION:  
N: 275,571ft E: 1,619,858ft  
LAT: 39°14'55.71" LON: 80°50'32.40"  
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:  
WELL 1H TOP HOLE INFORMATION:  
N: 4,347,572m E: 511,882m  
BOTTOM HOLE INFORMATION:  
N: 4,344,409m E: 513,619m



JOB # 12-100WA  
DRAWING # VIOLET1HR2  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

**LEGEND**  
 - - - Surface Owner Boundary Lines +/-  
 - - - Interior Surface Tracts +/-  
 X Existing Fence  
 ⊕ Iron Rod, Found

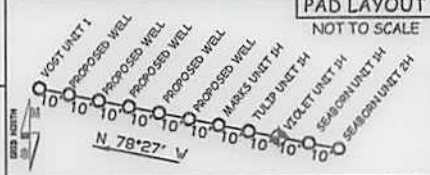
DOUGLAS R. ROWE P.S. 2202  
DATE 02/25/14  
OPERATOR'S WELL# VIOLET UNIT #1H  
API WELL # 47 - 017 - MOD -06206 H6A  
STATE COUNTY PERMIT

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 RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WILLOW LAND SURVEYING PLLC  
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

- (A) LINDA D. BURG ET AL. D.B. 255 PG. 145 T.M. 9 PAR. 18.4 7.023 AC.±
- (B) ROGER L. ELDER ET AL. D.B. 236 PG. 523 T.M. 9 PAR. 18.3 10.107 AC.±
- (C) WILLIAM T. KUNKET AL. D.B. 204 PG. 645 T.M. 9 PAR. 18.7 1 ACRES±
- (D) WMT KUNKET ET AL. D.B. 190 PG. 658 T.M. 9 PAR. 18.2 2 ACRES±



STATE OF WEST VIRGINIA DEPT. OF ENERGY DIVISION OF OIL AND GAS  
WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1,109' WATERSHED TRIBUTARY OF WILHELM RUN  
QUADRANGLE WEST UNION 7.5' DISTRICT CENTRAL COUNTY DODDRIEGE

SURFACE OWNER GREGORY R. & CAROLYN S. VOGT ACREAGE 12.07 ACRES +/-  
OIL & GAS ROYALTY OWNER PATRICK A. WRIGHT; WVSRA; JOSEPH J. MYER ET UX; JOSEPH J. MYER ET UX; LEASE ACREAGE 222 AC±; 301.19 AC±; 8.63 AC±; 37.25 AC±; CLIFTON E. SHEPLER ET UX; GAIL MASON; PATSY J. BOSO ET AL.; RODNEY MARKS; CARLTON BOYCE; M.J. CUNNINGHAM ET UX; JOHN F. CORTISSOZ ET AL. 16.4 AC±; 7.866 AC±; 70.03 AC±; 110 AC±; 22 AC±; 128 AC±; 79.5 AC±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ PLUG & ABANDON  CLEAN OUT & REPLUG   
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,800' TVD 18,600' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1625 17TH STREET ADDRESS CT CORPORATION SYSTEM  
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

04/04/2014

5,219' LONGITUDE 80°50'00"

COUNTY NAME PERMIT