

LATITUDE 39°25'00"

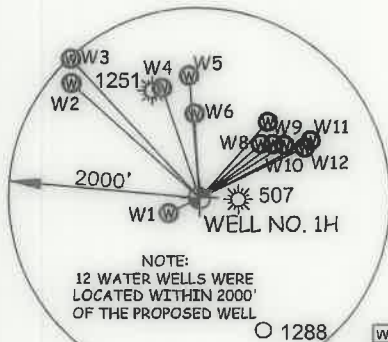
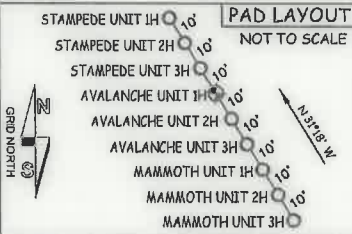
10,795'

LATITUDE 39°22'30" 7,396' TO BOTTOM HOLE

Antero Resources Corporation  
Well No. Avalanche Unit 1H

AS DRILLED DATA:  
WELL 1H TOP HOLE INFORMATION:  
N: 331,480ft E: 1,635,992ft  
LAT: 39°24'10.60" LON: 80°47'17.52"  
BOTTOM HOLE INFORMATION:  
N: 320,820ft E: 1,639,243ft  
LAT: 39°22'25.70" LON: 80°46'34.18"  
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: 4,361,524m E: 518,250m  
BOTTOM HOLE INFORMATION:  
N: 4,358,293m E: 519,295m



|     |            |         |
|-----|------------|---------|
| W1  | S 63°23' W | 359.2'  |
| W2  | N 47°45' W | 1801.9' |
| W3  | N 42°23' W | 1983.8' |
| W4  | N 18°18' W | 1224.0' |
| W5  | N 04°30' W | 1295.6' |
| W6  | N 02°57' W | 893.2'  |
| W7  | N 41°39' E | 1085.6' |
| W8  | N 48°02' E | 856.0'  |
| W9  | N 53°22' E | 966.3'  |
| W10 | N 57°24' E | 1057.5' |
| W11 | N 62°09' E | 1320.5' |
| W12 | N 63°56' E | 1226.5' |

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

JOB # 17-038WA  
DRAWING # AVALANCHE1HAD  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Proposed Well Path
- As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 09/03/20 OPERATOR'S WELL# AVALANCHE UNIT #1H

- NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
- TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
- WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 - 095 - 02603  
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
LOCATION: ELEVATION 743' - AS BUILT WATERSHED McELROY CREEK STATE COUNTY PERMIT

QUADRANGLE TH - SHIRLEY 7.5' BH - WEST UNION 7.5' DISTRICT McELROY COUNTY TYLER  
SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 127.86 ACRES +/-

OIL & GAS ROYALTY OWNER B.F. REED ET UX; MARK A. BURNETT; VICTOR I. KESTER ET AL; LEASE ACREAGE 130 AC.±; 256 AC.±; 50 AC.±;  
R.E. SMITH ET UX; GLENN D. SMITH; FANNY D. DAVIS ET AL; UNION NATIONAL BANK OF W.V.; 50.5 AC.±; 32 AC.±; 74 AC.±; 25.5 AC.±;  
ENID McCULLOUGH ET VIR; LINDA J. DESCHER; W.S. WRIGHT ET AL 103 AC.±; 76 AC.±; 48.75 AC.±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE  
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,428' TVD 17,910' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - GT CORPORATION SYSTEM  
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

| TM-Par                            | Surface Owner            |
|-----------------------------------|--------------------------|
| 16-08                             | June Griffin             |
| 16-8.1                            | Roger Griffin            |
| 16-8.2                            | Roger Griffin            |
| 16-16                             | Harry Vannoy             |
| 16-17                             | Charles Straight         |
| 16-17.3                           | Charles Kimball          |
| 16-18                             | Albert Bebee             |
| 16-19                             | Todd Orr                 |
| 19-02                             | Antero Resources Corp.   |
| 19-03                             | Larry Stevens            |
| 19-04                             | John Owens               |
| 19-05                             | Paul Weekley             |
| 19-06                             | Paul Weekley             |
| 19-07                             | Patricia Montgomery      |
| 19-08                             | John Lewis Jr.           |
| 19-09                             | Robert Walsh             |
| 19-10                             | Judith Malloy            |
| 19-27                             | Harvey Burns             |
| 19-42                             | Anna Barola              |
| 19-45                             | Terrence Fraser          |
| 19-46                             | Terrence Fraser          |
| 19-47                             | Ronnie Wilson Jr.        |
| 19-48                             | Lloyd Talkington         |
| 19-50                             | Ronald Cumberland        |
| 19-51                             | Randall Anderson         |
| 19-52                             | Harold Yost              |
| 19-53.1                           | Larry Marable            |
| 19-61                             | Kenneth Mason            |
| 19-63                             | Jacqueline Wichman Trust |
| 19-64                             | Kenneth Mason            |
| 19-64.1                           | Michael Kimball          |
| 19-65                             | Bobby Griffin            |
| 19-66                             | Matthew March            |
| 19-67                             | Smith Morris Trust       |
| 19-68                             | Randall Cluston          |
| 19-69                             | Randall Cluston          |
| 19-70                             | Randall Cumberland       |
| 19-73                             | Dena Pratt               |
| 19-74                             | Randall Cluston          |
| 22-04                             | Jacqueline Wichman Trust |
| 22-05                             | William Middleton        |
| 22-06                             | Thomas Allen             |
| 22-07                             | Thomas Allen             |
| 22-08                             | George Kithau            |
| 22-10                             | Thomas Allen             |
| 22-12                             | Terry Dotson             |
| 22-12.1                           | Margaret Dotson          |
| 22-13                             | Warren Putnam            |
| 22-13.1                           | Jacqueline Wichman       |
| Grant District - Doddridge County |                          |
| 01-01                             | Steven Read              |
| 04-01                             | Warren Putnam            |

435' TO BOTTOM HOLE

LONGITUDE 80°45'00"

LONGITUDE 80°45'00"

COUNTY NAME

PERMIT



LATITUDE 39°25'00"

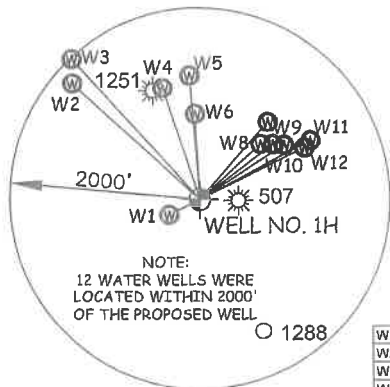
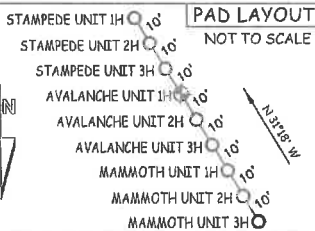
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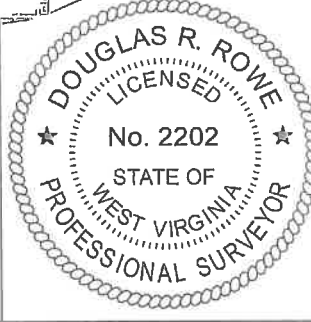
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MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND  
- - - Surface Owner Boundary Lines +/-  
- - - Interior Surface Tracts +/-  
o Proposed Well Path  
o As Drilled Well Path  
DOUGLAS R. ROWE P.S. 2202  
DATE 09/03/20  
OPERATOR'S WELL# AVALANCHE UNIT #1H

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FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

McElroy District - Tyler County

|                                   |                          |
|-----------------------------------|--------------------------|
| 7M-Par                            | Surface Owner            |
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| 19-42                             | Anna Barrola             |
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| 22-13.1                           | Jacqueline Wichman       |
| Grant District - Doddridge County |                          |
| 01-01                             | Steven Reed              |
| 04-01                             | Warren Putnam            |

WV NORTH ZONE GRID NORTH

435' TO BOTTOM HOLE LONGITUDE 80°45'00"

4,998' LONGITUDE 80°45'00"

TYLER COUNTY DODDRIDGE COUNTY