

LATITUDE 39°25'00"

9,003'

LATITUDE 39°27'30"

Antero Resources Corporation  
Well No. Silas Unit 2H  
47-095-02156 (AS DRILLED)

AS DRILLED DATA:  
WELL 2H TOP HOLE INFORMATION:  
N: 328,719ft E: 1,649,522ft  
LAT: 39°23'45.19" LON: 80°44'24.69"  
BOTTOM HOLE INFORMATION:  
N: 336,789ft E: 1,646,967ft  
LAT: 39°25'04.60" LON: 80°44'58.66"  
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 2H TOP HOLE INFORMATION:  
N: 4,360,751m E: 522,386m  
BOTTOM HOLE INFORMATION:  
N: 4,363,197m E: 521,567m

WV NORTH ZONE GRID NORTH

LONGITUDE 80°42'30"

7,569'

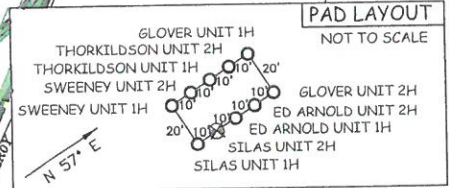
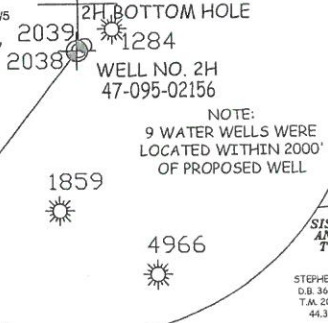
14,711' TO BOTTOM HOLE

LONGITUDE 80°42'30"

NOTE  
1. 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.  
2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.  
3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.  
4. 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.  
5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.  
6. THIS WELL BORE IS SUBJECT TO THAT 60 FOOT STRIP OF LAND KNOWN AS THE OLD SISTERVILLE AND SALEM TURNPIKE WHICH MAY OR MAY NOT COINCIDE WITH THE CURRENT LOCATION OF WV STATE ROUTE 23 IN THIS AREA.

WELL NO. 2H TO WATER WELLS

LINE	BEARING	DIST.
W1	N 39°16' W	1580.6'
W2	N 48°27' W	1601.9'
W3	N 57°18' W	1622.6'
W4	N 72°07' W	1087.0'
W5	N 72°56' W	985.0'
W6	N 74°07' W	1043.5'
W7	S 86°43' W	967.2'
W8	S 83°23' W	1041.8'
W9	S 78°42' W	1292.8'



LEGEND  
--- Surface Owner Boundary Lines +/-  
--- Interior Surface Tracts +/-  
--- Existing Fence  
⊕ Found monument, as noted  
○ Proposed Well Path  
⊗ As Drilled Well Path

DATE 06/25/15  
OPERATOR'S WELL # SILAS UNIT #2H

API WELL # 47 - 095 - 02156  
STATE COUNTY PERMIT

QUADRANGLE CENTER POINT 7.5' DISTRICT McELROY COUNTY TYLER  
SURFACE OWNER FOREST & BRENDA MOORE ACREAGE 26.478 ACRES +/-  
OIL & GAS ROYALTY OWNER RALPH SWEENEY ET UX; RALPH SWEENEY ET UX; M.V.B. GEORGE; JAMES DOAN ET UX; ELIZA UNDERWOOD ET AL LEASE ACREAGE 25.668 ACRES±; 55.43 ACRES±; 263.67 ACRES±; 300 ACRES±; 216 ACRES±

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_  
PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY) (X) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,600' TVD 14,654' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313

JOB # 13-096WA  
DRAWING # SILAS2HAD  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC  
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

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

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 748' ORIGINAL - 745' AS DRILLED WATERSHED MCELROY CREEK

FORM WW-6

COUNTY NAME PERMIT