

LATITUDE 39°20'00"

8,836'

LATITUDE 39°17'30"

LONGITUDE 80°47'30"

10,715'

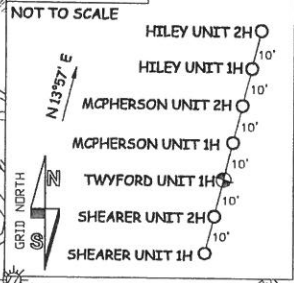
LONGITUDE 80°47'30"

Antero Resources Corporation
Well No. Twyford Unit 1H
47-017-06402 (AS DRILLED)

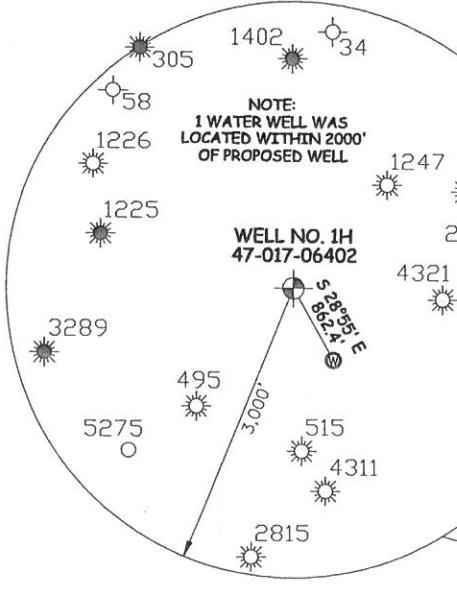
AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 295,558ft E: 1,625,659ft
LAT: 39°18'14.10" LON: 80°49'22.41"
BOTTOM HOLE INFORMATION:
N: 287,324ft E: 1,630,045ft
LAT: 39°16'53.35" LON: 80°48'25.09"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,350,527m E: 515,285m
BOTTOM HOLE INFORMATION:
N: 4,348,041m E: 516,663m

PAD LAYOUT



- 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.



JOB # 13-080WA
DRAWING # TWYFORD1HAD
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
P.O. BOX 17
PENNBSORO, WV 26415

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

DATE 05/18/15
OPERATOR'S WELL# TWYFORD UNIT #1H

API WELL # 47 - 017 - 06402
STATE COUNTY PERMIT

QUADRANGLE WEST UNION 7.5' DISTRICT CENTRAL COUNTY DODDRIDGE

SURFACE OWNER JONATHAN DAVIS ET AL ACREAGE 35.21 ACRES +/-
OIL & GAS ROYALTY OWNER V. KARIN OSBOURN HOLLIS; FLORA SWEENEY; WILLIAM JOHN WILSON; LEASE ACREAGE 79.09 AC±; 103 AC±; 29.4 AC±;
CORLIS P. HUDSON ET AL; WVSRA; ROBERTA WALKER ET AL; RUBY FARR MAXWELL ET AL; RUTH D. ROGERS; MAYME TWYFORD 488.7 AC±; 301.19 AC±; 109 AC±; 45 AC±; 20 AC±; 71 AC±

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 6,490' TVD 15,330' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM

ADDRESS 1615 WYNKOOP STREET DENVER, CO 80202 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313