LATITUDE 39°17'30"

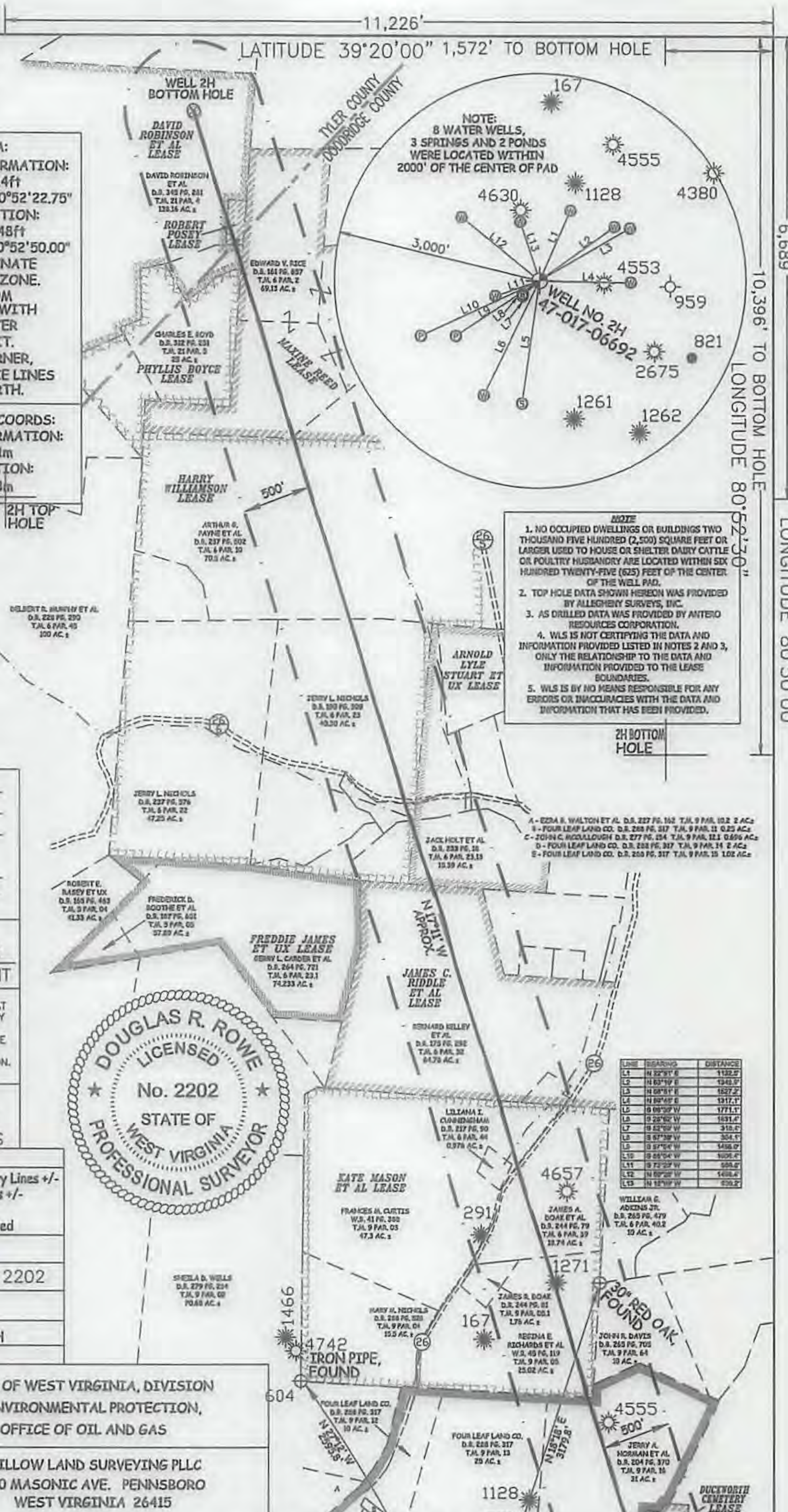
Antero Resources Corporation
Well No. Alder Unit 2H
API 47-017-06692

AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
N: 284,622ft E: 1,611,314ft
LAT: 39°16'23.89" LON: 80°52'22.75"
BOTTOM HOLE INFORMATION:
N: 287,122ft E: 1,609,348ft
LAT: 39°18'17.24" LON: 80°52'50.00"
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: 4,347,123m E: 510,971m
BOTTOM HOLE INFORMATION:
N: 4,350,616m E: 510,313m

11/10/2017

WV NORTH ZONE GRID NORTH




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.

| LINE | BEARING | DISTANCE |
|---|---|---|
| L1 | N 32°51' E | 1132.5' |
| L2 | N 63°19' E | 1348.9' |
| L3 | N 08°51' E | 1627.2' |
| L4 | N 89°49' E | 1317.1' |
| L5 | S 09°39' W | 1771.1' |
| L6 | S 28°52' W | 1631.4' |
| L7 | S 52°59' W | 310.6' |
| L8 | S 67°38' W | 304.1' |
| L9 | S 57°54' W | 1456.0' |
| L10 | S 65°04' W | 1606.4' |
| L11 | S 73°23' W | 599.6' |
| L12 | N 59°20' W | 1466.4' |
| L13 | N 12°19' W | 639.2' |

PAD LAYOUT
AMANDA UNIT 2H
AMANDA UNIT 1H
ZELLERBACK UNIT 1H
ZELLERBACK UNIT 2H
ALDER UNIT 2H
ALDER UNIT 1H
MURPHY UNIT 2H
MURPHY UNIT 1H
MURPHY UNIT 4H
N 16°12' W
NOT TO SCALE

JOB # 13-020WA
DRAWING # ALDER2HADR
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

API WELL #

| 47 | 017 | 06692 |
|---|---|---|
| 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 PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

DOUGLAS R. ROWE LICENSED No. 2202 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

LEGEND
Surface Owner Boundary Lines +/-
Interior Surface Tracts +/-
Existing Fence
Found monument, as noted

DOUGLAS R. ROWE P.S. 2202

DATE 08/24/17

OPERATOR'S WELL# ALDER UNIT #2H

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

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 989' AS BUILT WATERSHED NORTH FORK HUGHES RIVER
QUADRANGLE WEST UNION 7.5' TH; PENNSBORO 7.5' BH DISTRICT CENTRAL COUNTY DODDRIDGE
SURFACE OWNER ROBERT L. HOLLAND JR. ACREAGE 6.60 ACRES +/-
OIL & GAS ROYALTY OWNER ANNA BARKER ET AL; WVSRA; DUCKWORTH CEMETERY; KATE MASON ET AL; JAMES C. RIDDLE ET AL; ARNOLD LYLE STUART ET UX; HARRY WILLIAMSON; MAXINE REED; PHYLLIS BOYCE; ROBERT POSEY; DAVID ROBINSON ET AL LEASE ACREAGE 127 AC±; 301.10 AC±; 3.29 AC±; 90 AC±; 75 AC±; 38 AC±; 100 AC±; 73 AC±; 22 AC±; 1 AC±; 138.16 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 6,419' TVD 18,197' 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
FORM WW-6