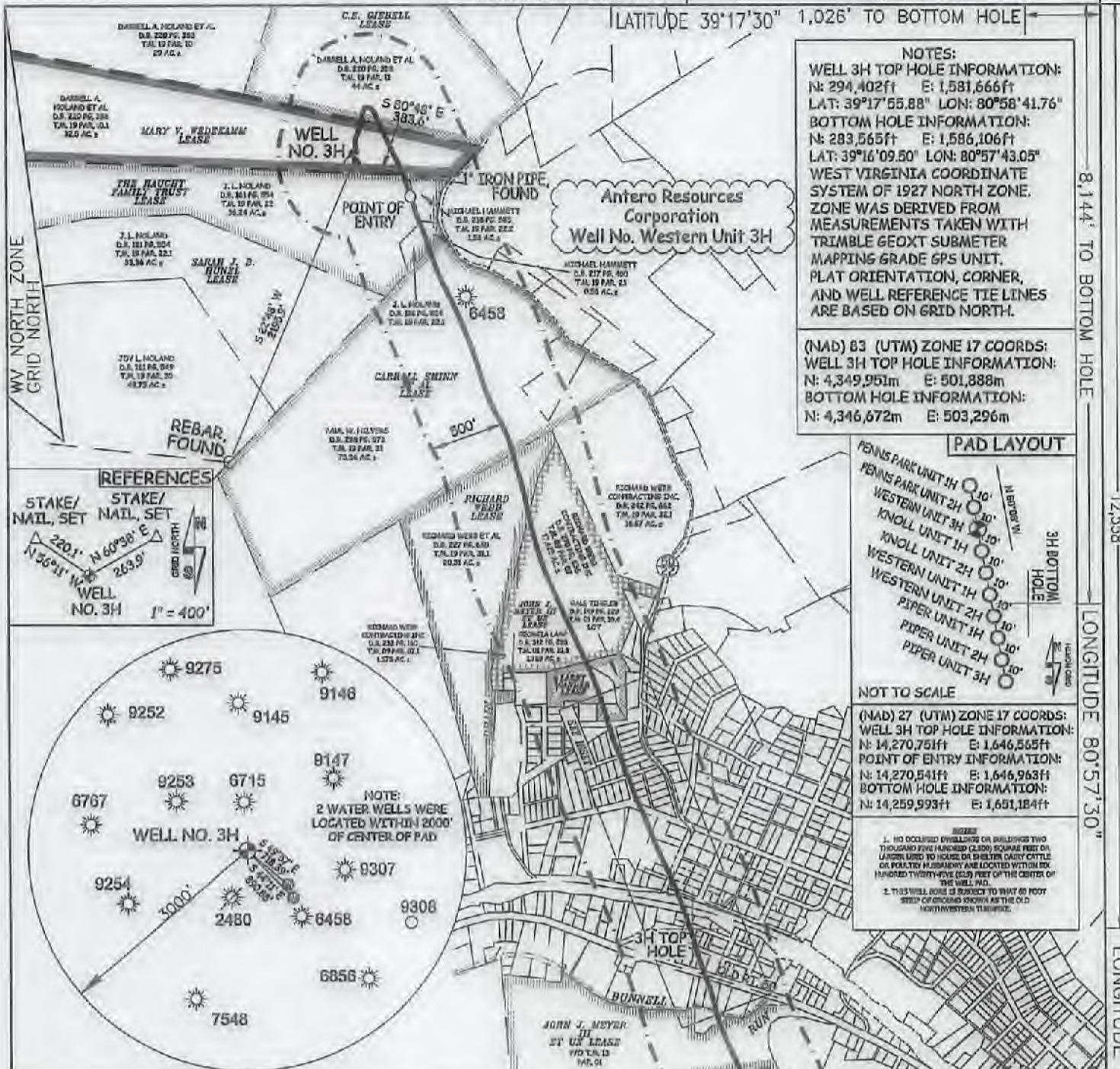


LATITUDE 39°20'00"

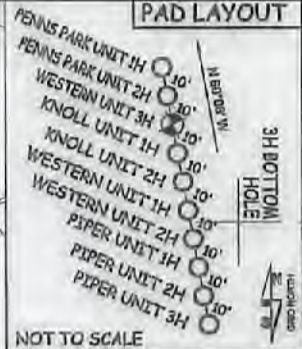
5,641'

LATITUDE 39°17'30" 1,026' TO BOTTOM HOLE



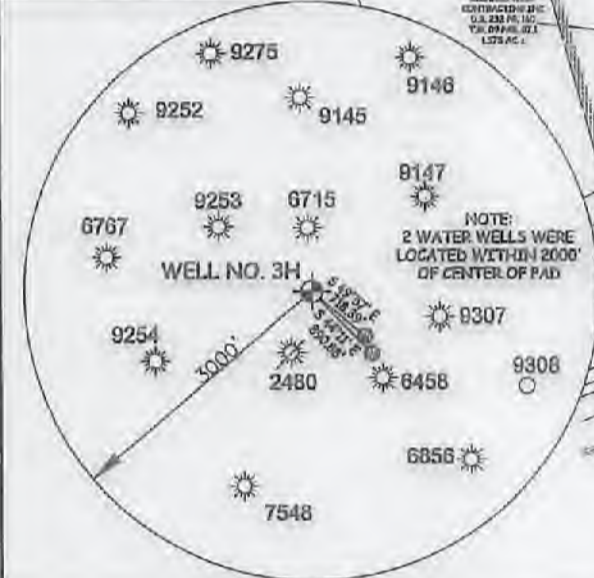
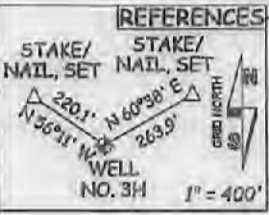
**NOTES:**  
**WELL 3H TOP HOLE INFORMATION:**  
 N: 294,402ft E: 1,581,666ft  
 LAT: 39°17'55.88" LON: 80°58'41.76"  
**BOTTOM HOLE INFORMATION:**  
 N: 283,565ft E: 1,586,106ft  
 LAT: 39°16'09.50" LON: 80°57'43.05"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS 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 3H TOP HOLE INFORMATION:**  
 N: 4,349,951m E: 501,888m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,346,672m E: 503,296m



**NOT TO SCALE**  
**(NAD) 27 (UTM) ZONE 17 COORDS:**  
**WELL 3H TOP HOLE INFORMATION:**  
 N: 14,270,751ft E: 1,646,565ft  
**POINT OF ENTRY INFORMATION:**  
 N: 14,270,541ft E: 1,646,963ft  
**BOTTOM HOLE INFORMATION:**  
 N: 14,259,993ft E: 1,651,184ft

**NOTES:**  
 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2000) SQUARE FEET OR LARGER USED TO HOUSE OR BLENDED DAIRY CATTLE OR POLYESTER HOUSING ARE LOCATED WITHIN ONE HUNDRED TWENTY-FIVE (125) FEET OF THE CENTER OF THE WELL PAD.  
 2. THIS WELL BORE IS SUBJECT TO WHAT 60 FOOT SEED CORRIDOR KNOWN AS THE OLD NORTHWESTERN TURNPIKE.



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 PERSERIBED 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



47 - 085 - 10295  
 STATE COUNTY PERMIT

JOB # 16-022WA  
 DRAWING # WESTERN3HMOD  
 SCALE 1" = 1000'  
 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 +/-  
 X Existing Fence  
 ⊕ Found monument, as noted  
 THOMAS SUMMERS P.S. 2109  
 DATE 01/24/18  
 OPERATOR'S WELL# WESTERN UNIT 3H

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
 LOCATION: ELEVATION 1,443' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PENNSBORO 7.6 DISTRICT CLAY COUNTY RITCHIE  
 SURFACE OWNER DARRELL A. NOLAND ET AL ACREAGE 32.5 ACRES +/-  
 OIL & GAS ROYALTY OWNER SEE ATTACHED PAGES LEASE ACREAGE SEE ATTACHED PAGES

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE  
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL  
 (SPECIFY) MOD-POE PLUG & ABANDON CLEAN OUT & REPLUG  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,444' TYD 18,285' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

06/29/2018

8,144' TO BOTTOM HOLE

12,558'

LONGITUDE 80°57'30"

LONGITUDE 80°57'30"

COUNTY NAME PERMIT



Antero Resources Corporation  
Well No. Western Unit 3H

INSET

WV NORTH ZONE  
GRID NORTH

Oil & Gas Royalty Owner	T.M.-Par.
A Larry Gander	1-10.5
B City of Pennsboro	1-34.1
C Larry Gander	1-33
D Paul D. Carman	1-42
E Gale Tingler	1-34
F Matthew H. Rial	1-43
G Gail B. Cogar Et Ux	1-44
H Jefferson Boylen Et Ux	1-53
I Gail B. Cogar Et Ux	1-54
J Deward Richards	1-52
K Steven Hammond	1-62
L Steven Hammond	1-63
M Gail B. Cogar Et Ux	1-63.1
N Gail B. Cogar Et Ux	1-64
O WB Properties LLC	1-65
P WB Properties LLC	1-59
Q WB Properties LLC	1-60
R No Lease Found	4-12
S George Allen	4-13
T Jay Bee Production Co.	4-51
U David A. Poling	4-52
V David A. Poling	4-54
W Presbyterian Church of Pennsboro	4-53
X John K. Schaffer Et Ux	4-110
Y John K. Schaffer Et Ux	4-111
Z John K. Schaffer Et Ux	4-115
AA Margaret Michels	4-118
AB Gary A. McDaniels	4-119
AC Gary A. McDaniels	4-120
AD Paul Dodd	4-123

EXCLUDED MINERAL

Oil & Gas Royalty Owner	T.M.-Par.
AE Charlene R. Sweeney	4-121
AF Charlene R. Sweeney	4-124.1
AG Charlene R. Sweeney	4-124
AH Stephen S. Taylor	4-214.1
AI Stephen S. Taylor	4-214
AJ No Lease Found	4-215
AK Pennsboro Vol. Fire Dept.	4-106
AL Pennsboro Vol. Fire Dept.	4-216
AM Pennsboro Vol. Fire Dept.	4-217
AN Anne E. Robinson	4-220.1
AO Popcorn Properties LLC	4-221
AP Popcorn Properties LLC	4-222
AQ Willow Land Surveying PLLC	4-220
AR Ritchie Petroleum Corporation, Inc.	4-223
AS Frederick Humphrey Et Ux	4-224
AT Frederick Humphrey Et Ux	4-225
AU Union Bank	4-226
AV Union Bank	4-228
AW Union Bank	4-227
AX Union Bank	4-229
AY Biff Spitz	4-287
AZ Teresa Poling Et Al	4-288
BA Harmony Lodge	4-289
BB Ritchie Petroleum Corporation, Inc.	4-291
BC Ritchie Petroleum Corporation, Inc.	4-292
BD Marjorie C. Mahoney	4-300
BE L & M Investment Co.	4-293
BF Matthew J. Washington Et Ux	4-295
BG Bobbie Riffle Et Al	4-296
BH Consumer Gas Utility Co.	4-305
BI Freda Mossor Et Al	4-294
BJ Charlene R. Sweeney	4-295
BK Charlene R. Sweeney	4-296
BL Board of Education	4-305
BM Board of Education	4-294

**WILLOW**  
LAND SURVEYING PLLC

P.O. BOX 17  
PENNSBORO, WV 26415  
304-659-1717

SCALE: 1-INCH = 200-FEET



FILE: 16-022WA  
JOB: WESTERN3H INSET MOD  
DRAFTED BY: T.B.S. 02/01/18

LEGEND	
	As Drilled Well Path
	Interior Surface Tracts +/-

06/29/2018