

LATITUDE 39°20'00"

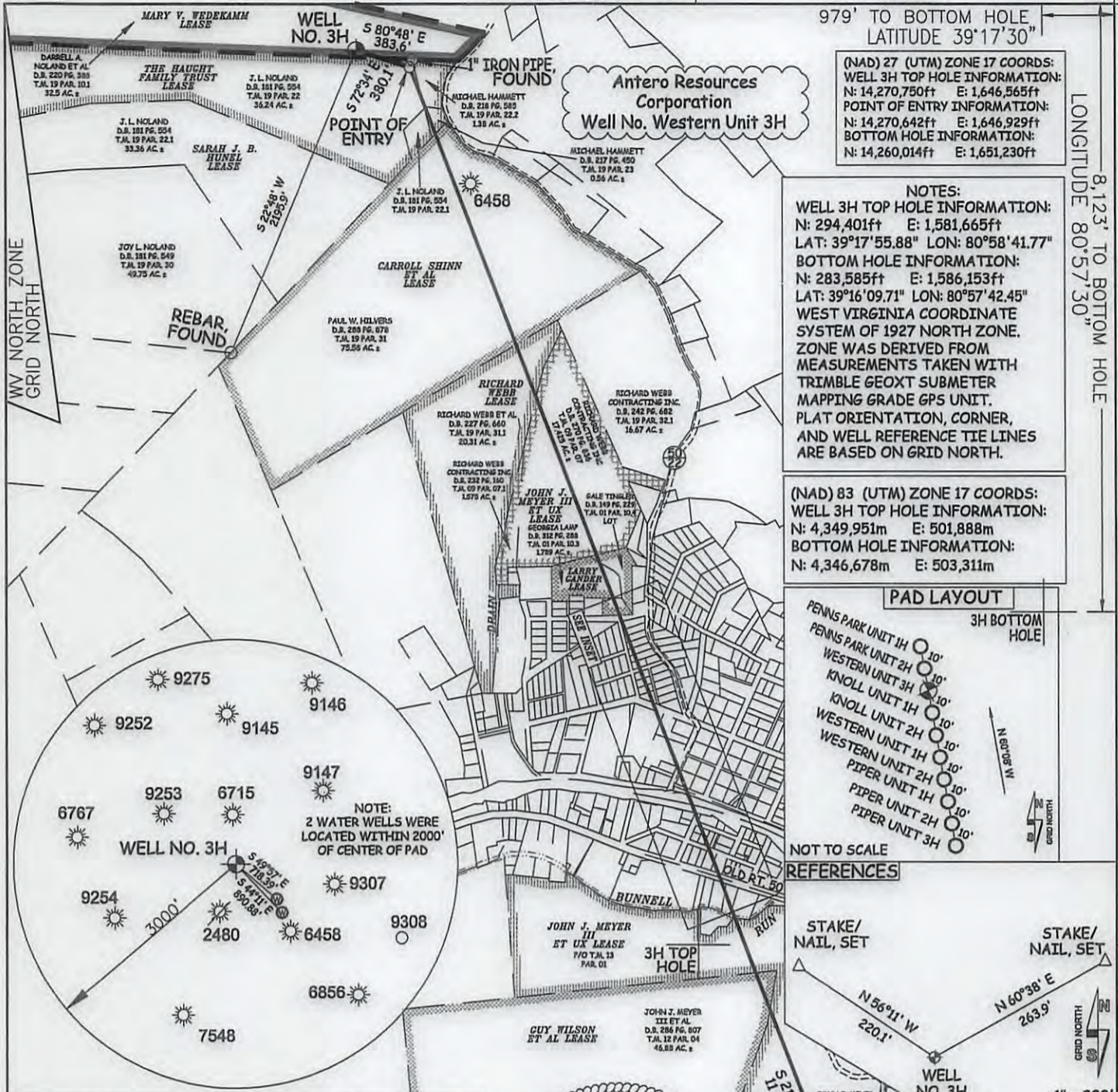
5,642'

797' TO BOTTOM HOLE  
LATITUDE 39°17'30"

LONGITUDE 80°57'30"

12,559'

LONGITUDE 80°57'30"

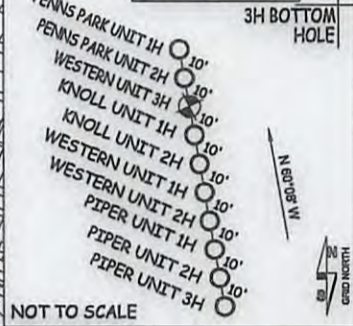


(NAD 27 (UTM) ZONE 17 COORDS:  
WELL 3H TOP HOLE INFORMATION:  
N: 14,270,750ft E: 1,646,565ft  
POINT OF ENTRY INFORMATION:  
N: 14,270,642ft E: 1,646,929ft  
BOTTOM HOLE INFORMATION:  
N: 14,260,014ft E: 1,651,230ft

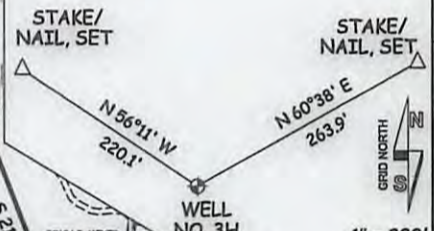
NOTES:  
WELL 3H TOP HOLE INFORMATION:  
N: 294,401ft E: 1,581,665ft  
LAT: 39°17'55.88" LON: 80°58'41.77"  
BOTTOM HOLE INFORMATION:  
N: 283,585ft E: 1,586,153ft  
LAT: 39°16'09.71" LON: 80°57'42.45"  
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH 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: 4,346,678m E: 503,311m

PAD LAYOUT



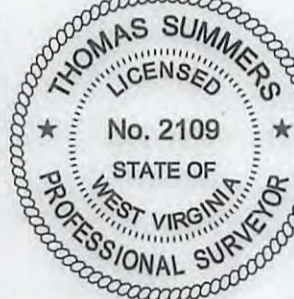
NOT TO SCALE REFERENCES



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



47 - 085 - 10295 MOD  
STATE COUNTY PERMIT

NOTES:  
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 RUMSBERY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.  
2. THIS WELL BORE IS SUBJECT TO THAT 60 FOOT STRIP OF GROUND KNOWN AS THE OLD NORTHWESTERN TURNPIKE.

JOB # 16-022WA  
DRAWING # WESTERN3HR  
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 +/-  
--- Existing Fence  
--- Found monument, as noted  
THOMAS SUMMERS P.S. 2109  
DATE 11/25/16  
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 1,159' ORIGINAL - 1,143' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER  
QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE  
SURFACE OWNER DARRELL A. NOLAND ET AL ACREAGE 32.5 ACRES +/-  
OIL & GAS ROYALTY OWNER SEE ATTACHED PAGES FOR LEASE INFORMATION LEASE ACREAGE SEE ATTACHED PAGES

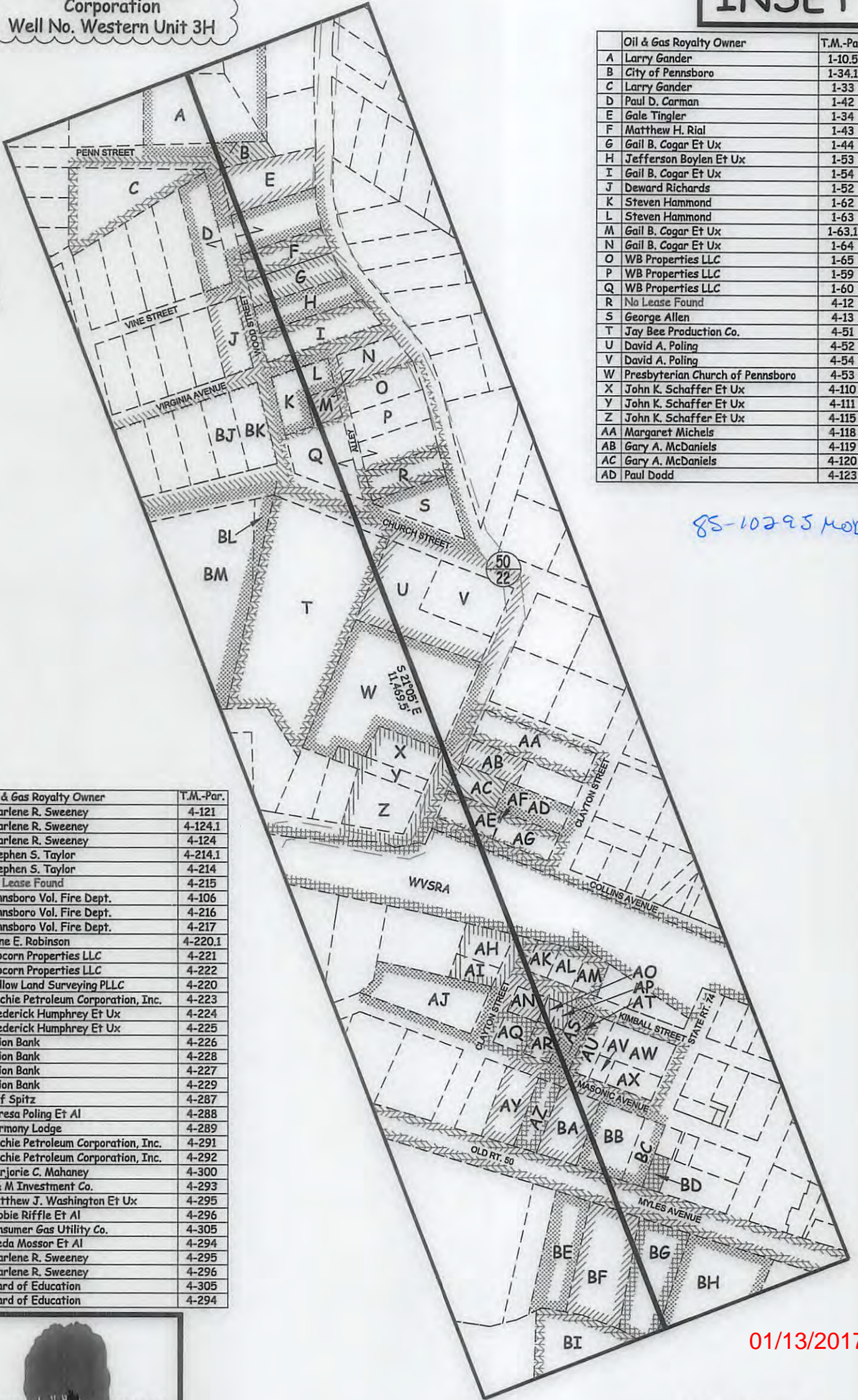
PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER X REDRILL \_\_\_ FRACTURE OR STIMULATE X  
PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,500' TVD 19,600' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

01/13/2017

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

85-10295 MOD

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. Mahaney	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

01/13/2017



SCALE: 1-INCH = 200-FEET



FILE: 16-022WA  
JOB: WESTERN3HR INSET LEASE  
DRAFTED BY: T.B.S. 11/25/16

LEGEND	
	Western 3H Lateral
	Interior Surface Tracts +/-

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

Antero Resources Corporation  
Well No. Western Unit 3H

INSET

WV NORTH ZONE  
GRID NORTH

	Surface Owner	D.B./PG.	T.M.-Par.
A	Robert F. Hayes	316/788	1-10.5
B	City of Pennsboro	217/462	1-34.1
C	Charles Miller	302/1077	1-33
D	Paul Carman	280/782	1-42
E	Gale Tingler	154/309	1-34
F	Matthew Rial	307/967	1-43
G	Gail Cogar	304/548	1-44
H	Jefferson Boylen	298/883	1-53
I	Gail Cogar	249/545	1-54
J	Deward Richards	262/360	1-52
K	Steven Hammond	238/367	1-62
L	Steven Hammond	238/367	1-63
M	Gail Cogar	269/895	1-63.1
N	Gail Cogar	249/545	1-64
O	WB Properties LLC	283/925	1-65
P	WB Properties LLC	283/925	1-59
Q	WB Properties LLC	283/925	1-60
R	Eugene Maple Family Trust	W40/382	4-12
S	George Allen	144/258	4-13
T	Board of Education	148/33	4-51
U	David Poling	297/668	4-52
V	David Poling	297/668	4-54
W	Presbyterian Cemetery	114/134	4-53
X	John Schaffer	272/896	4-110
Y	John Schaffer	249/720	4-111
Z	John Schaffer	249/718	4-115
AA	Margaret Michels	241/331	4-118
AB	Gary McDaniels	290/717	4-119
AC	Gary McDaniels	290/633	4-120
AD	Paul Dodd Sr.	311/101	4-123

85-10295 MOD

	Surface Owner	D.B./PG.	T.M.-Par.
AE	Charlene Sweeney	314/358	4-121
AF	Charlene Sweeney	184/294	4-124.1
AG	Charlene Sweeney	184/294	4-124
AH	Stephen Taylor	291/229	4-214.1
AI	Stephen Taylor	248/807	4-214
AJ	C Tan Investments LLC	322/490	4-215
AK	Pennsboro Vol. Fire Dept.	178/38	4-106
AL	Pennsboro Vol. Fire Dept.	188/257	4-216
AM	Pennsboro Vol. Fire Dept.	139/541	4-217
AN	James Robinson	301/639	4-220.1
AO	Brad Waite	304/428	4-221
AP	Brad Waite	304/428	4-222
AQ	Willow Land Surveying PLLC	311/146	4-220
AR	Ritchie Petroleum Inc.	293/724	4-223
AS	Frederick Humphrey	230/558	4-224
AT	Frederick Humphrey	230/558	4-225
AU	Union Bank Inc.	294/745	4-226
AV	Union Bank Inc.	294/745	4-228
AW	Union Bank Inc.	294/745	4-227
AX	Union Bank Inc.	294/745	4-229
AY	Biff Spitz	156/376	4-287
AZ	Schroeder Acquisitions LLC	286/348	4-288
BA	Lodge #59 A.F. & A.M.	25/199	4-289
BB	Ritchie Petroleum Corp.	265/27	4-291
BC	Ritchie Petroleum Corp.	265/27	4-292
BD	Marjorie Mahaney	263/560	4-300
BE	L & M Investment Co. LLC	318/605	4-293
BF	Joseph Wilson	319/485	4-295
BG	C I Realty LLC	301/191	4-296
BH	Consumer Gas Utility Co.	158/598	4-305
BI	Donald Mossor	280/403	4-294
BJ	Charlene Sweeney	W31/717	1-61.3
BK	Charlene Sweeney	W31/717	1-61.4
BL	Board of Education	148/33	4-50
BM	Board of Education	148/38	4-49



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SCALE: 1-INCH = 200-FEET



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DRAFTED BY: T.B.S. 11/25/16

LEGEND

	Western 3H Lateral
	Interior Surface Tracts +/-

01/13/2017