

LATITUDE 39°15'00"

7,928'

5,317' TO BOTTOM HOLE
LATITUDE 39°15'00"

LONGITUDE 80°52'30"

7,165'

13,880' TO BOTTOM HOLE

LONGITUDE 80°52'30"

WM. VANCAMPEN
ET AL LEASE
JACK D. MACKAY ET AL
D.B. 280 PG. 972
T.M. 37 PAR. 3
235.03 AC. ±

Antero Resources Corporation
Well No. Moats Unit 3H
47-085-10141 (AS DRILLED)

WELL NO. 3H
47-085-10141

AS DRILLED DATA:
WELL 3H TOP HOLE INFORMATION:
N: 269,104ft E: 1,602,577ft
LAT: 39°13'49.18" LON: 80°54'10.76"
BOTTOM HOLE INFORMATION:
N: 262,349ft E: 1,605,085ft
LAT: 39°12'42.81" LON: 80°53'37.56"
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: 4,342,350m E: 508,388m
BOTTOM HOLE INFORMATION:
N: 4,340,305m E: 509,186m

- 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.

WV NORTH ZONE
GRID NORTH

LAWRENCE C. HEIM
ET AL LEASE
FRANKLIN P. QUIMBY
D.B. 300 PG. 548
T.M. 37 PAR. 6.1
23 AC. ±

CLARENCE COTTRILL ET AL
D.B. 176 PG. 469
T.M. 37 PAR. 9
2424 AC. ±

C.S. HALL
ET UX LEASE
JAMES M. LAFFERTY
D.B. 310 PG. 989
T.M. 4 PAR. 1
113 AC. ±

JACK D. MACKAY ET AL
D.B. 280 PG. 972
T.M. 37 PAR. 10
144.86 AC. ±

MARJORIE CROOKS
ET AL LEASE
JAMES M. LAFFERTY
D.B. 310 PG. 989
T.M. 4 PAR. 1.1
117 AC. ±

C.W. BALL
HEIRS LEASE
C.W. BALL
D.B. 64 PG. 381
T.M. 9 PAR. 2
49.17 AC. ±

IRENE MOATS
LEASE
JACK LANGFORD ET AL
D.B. 222 PG. 785
T.M. 9 PAR. 3
14.71 AC. ±

JACK LANGFORD ET AL
D.B. 175 PG. 245
T.M. 9 PAR. 27
74.62 AC. ±

NAOMI CUNNINGHAM
D.B. 283 PG. 59
T.M. 9 PAR. 9
192.37 AC. ±

NAOMI CUNNINGHAM
D.B. 283 PG. 59
T.M. 9 PAR. 9.1
95 AC. ±

JOHN R. LOUKE ET AL
D.B. 299 PG. 905
T.M. 9 PAR. 11
88.2 AC. ±

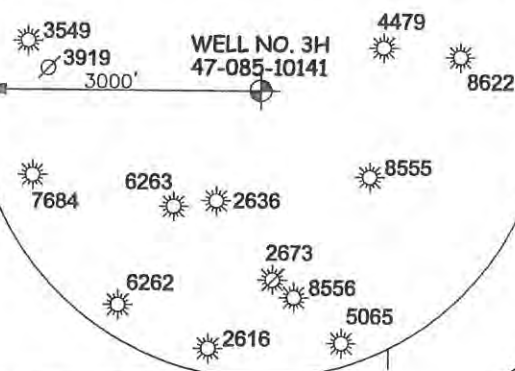
JOHN R. LOUKE ET AL
D.B. 299 PG. 21
T.M. 9 PAR. 14
94.7 AC. ±

PAD LAYOUT

- Hornet Unit 2H 10'
 - Hornet Unit 1H 10'
 - Myrtle Unit 1H 10'
 - Myrtle Unit 2H 10'
 - Miracle Unit 2H 10'
 - Miracle Unit 1H 10'
 - Moats Unit 2H 10'
 - Moats Unit 1H 10'
 - Moats Unit 3H 10'
 - Miracle Unit 3H 10'
- N 05°20' E
NOT TO SCALE

NOTE:
NO WATER WELLS WERE
LOCATED WITHIN 2000'
OF PROPOSED WELL.

WELL NO. 3H
47-085-10141



JOB # 13-051WA
DRAWING # MOATS3HAD
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

LEGEND

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

DATE 2/24/2016
OPERATOR'S WELL# MOATS UNIT #3H

API WELL # 47 - 085 - 10141
STATE COUNTY PERMIT

QUADRANGLE PULLMAN 7.5' DISTRICT CLAY (TH) UNION (BH) COUNTY RITCHIE
SURFACE OWNER FRANKLIN P. QUIMBY ACREAGE 23 ACRES +/-
OIL & GAS ROYALTY OWNER LAWRENCE C. HEIM ET AL; C.S. HALL ET UX; LEASE ACREAGE 53 AC±; 113 AC±;
MARJORIE CROOKS ET AL; JACK LANGFORD ET AL; C.W. BALL HEIRS; JACK LANGFORD ET AL; J.B. TAFT ET AL 117 AC±; 448.5 AC±; 49.27 AC±; 10 AC±; 57 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 6,649' TVD 13,594' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME PERMIT