

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.

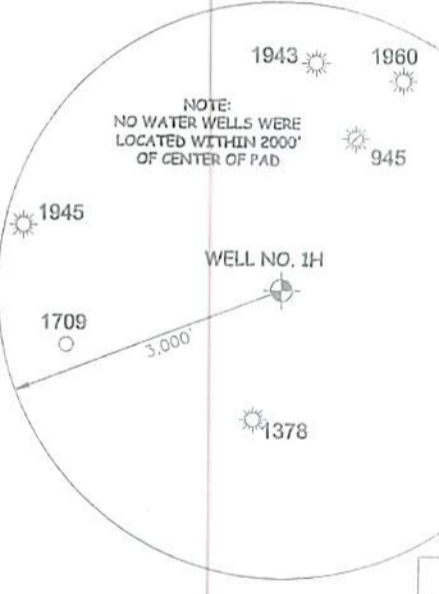
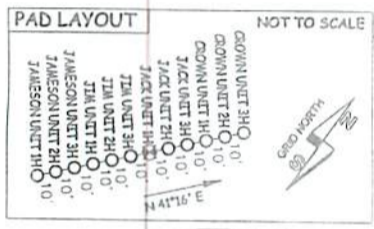
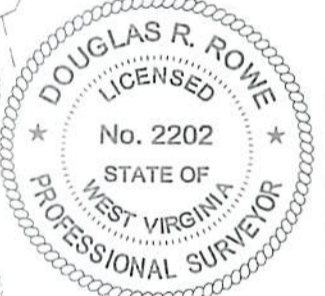


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

- 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 ANTERO RESOURCES CORPORATION.
 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.

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 338,884ft E: 1,593,861ft
 LAT: 39°25'17.45" LON: 80°56'15.71"
 BOTTOM HOLE INFORMATION:
 N: 349,950ft E: 1,589,752ft
 LAT: 39°27'06.16" LON: 80°57'10.32"
 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: 4,363,565m E: 505,377m
 BOTTOM HOLE INFORMATION:
 N: 4,366,915m E: 504,069m



47	095	02461
STATE	COUNTY	PERMIT

LEGEND
 - - - Surface Owner Boundary Lines +/-
 - - - Interior Surface Tracts +/-
 ○ Proposed Well Path
 ⊗ As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202

DATE 06/04/19
 OPERATOR'S WELL# JACK UNIT #1H

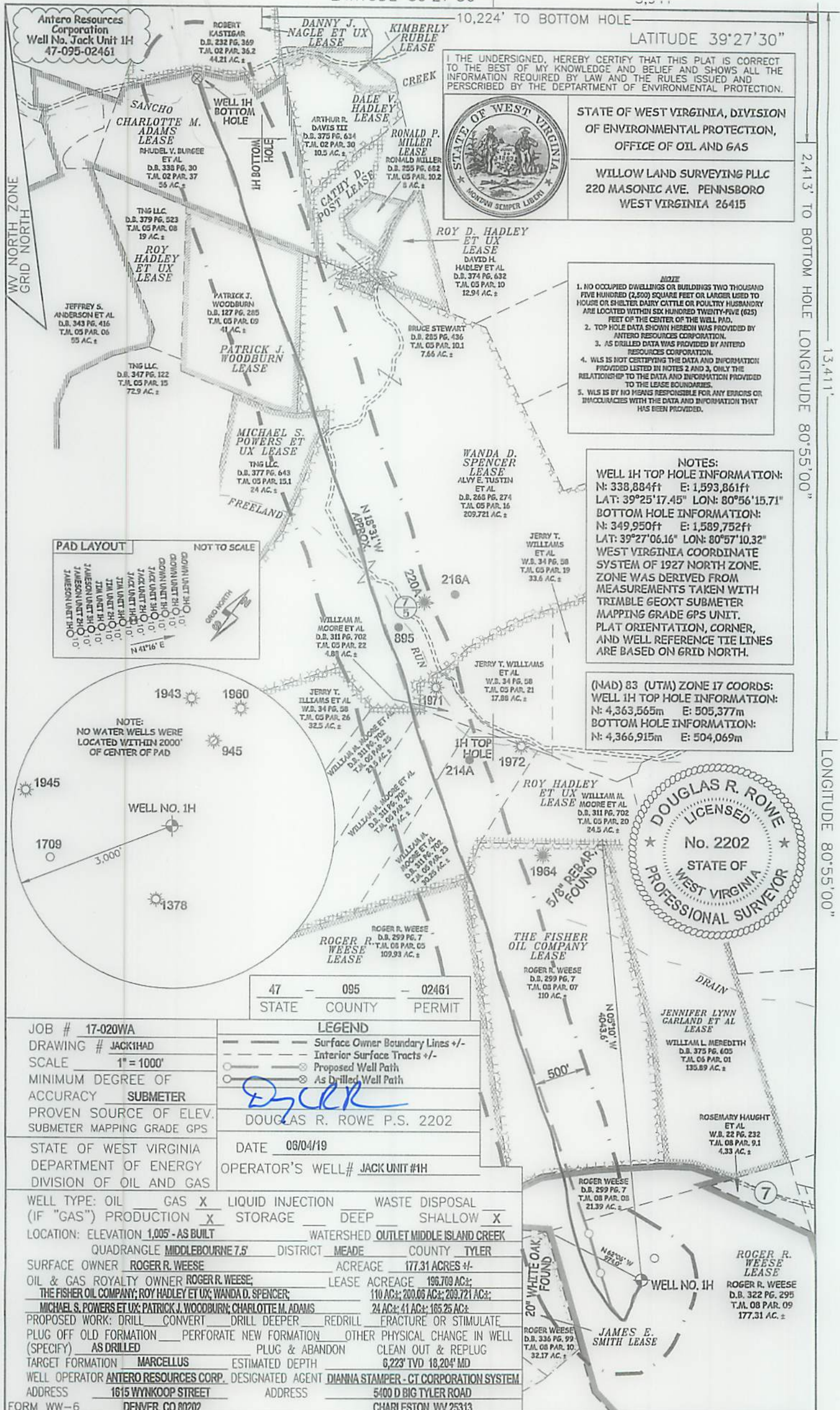
JOB # 17-020WA
 DRAWING # JACK1HAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,005' - AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE MIDDLEBOURNE 7.5' DISTRICT MEADE COUNTY TYLER
 SURFACE OWNER ROGER R. WEESE ACREAGE 177.31 ACRES +/-
 OIL & GAS ROYALTY OWNER ROGER R. WEESE; LEASE ACREAGE 196.709 AC +/-
 THE FISHER OIL COMPANY; ROY HADLEY ET UX; WANDA D. SPENCER; LEASE ACREAGE 110 AC +/-; 200.05 AC +/-; 209.721 AC +/-
 MICHAEL S. POWERS ET UX; PATRICK J. WOODBURN; CHARLOTTE M. ADAMS; LEASE ACREAGE 24 AC +/-; 41 AC +/-; 185.25 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 6,223' TVD 18,204' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYKHOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 DENVER, CO 80202 CHARLESTON, WV 25313

2,413' TO BOTTOM HOLE LONGITUDE 80°55'00"

1,341'

LONGITUDE 80°55'00"



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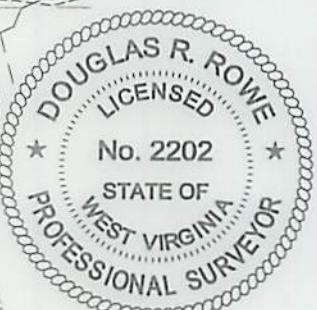
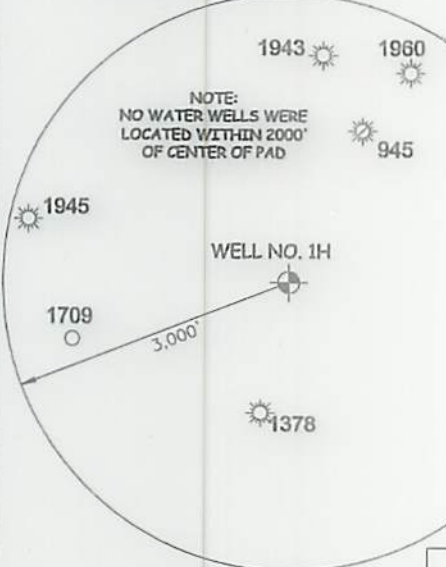
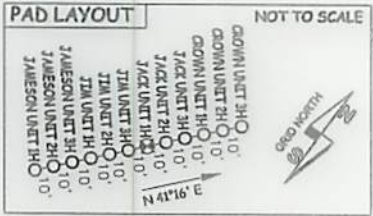


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

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 LAT: 39°27'06.16" LON: 80°57'10.32"
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(NAD) 83 (UTM) ZONE 17 COORDS:
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 N: 4,363,565m E: 505,377m
 BOTTOM HOLE INFORMATION:
 N: 4,366,915m E: 504,069m



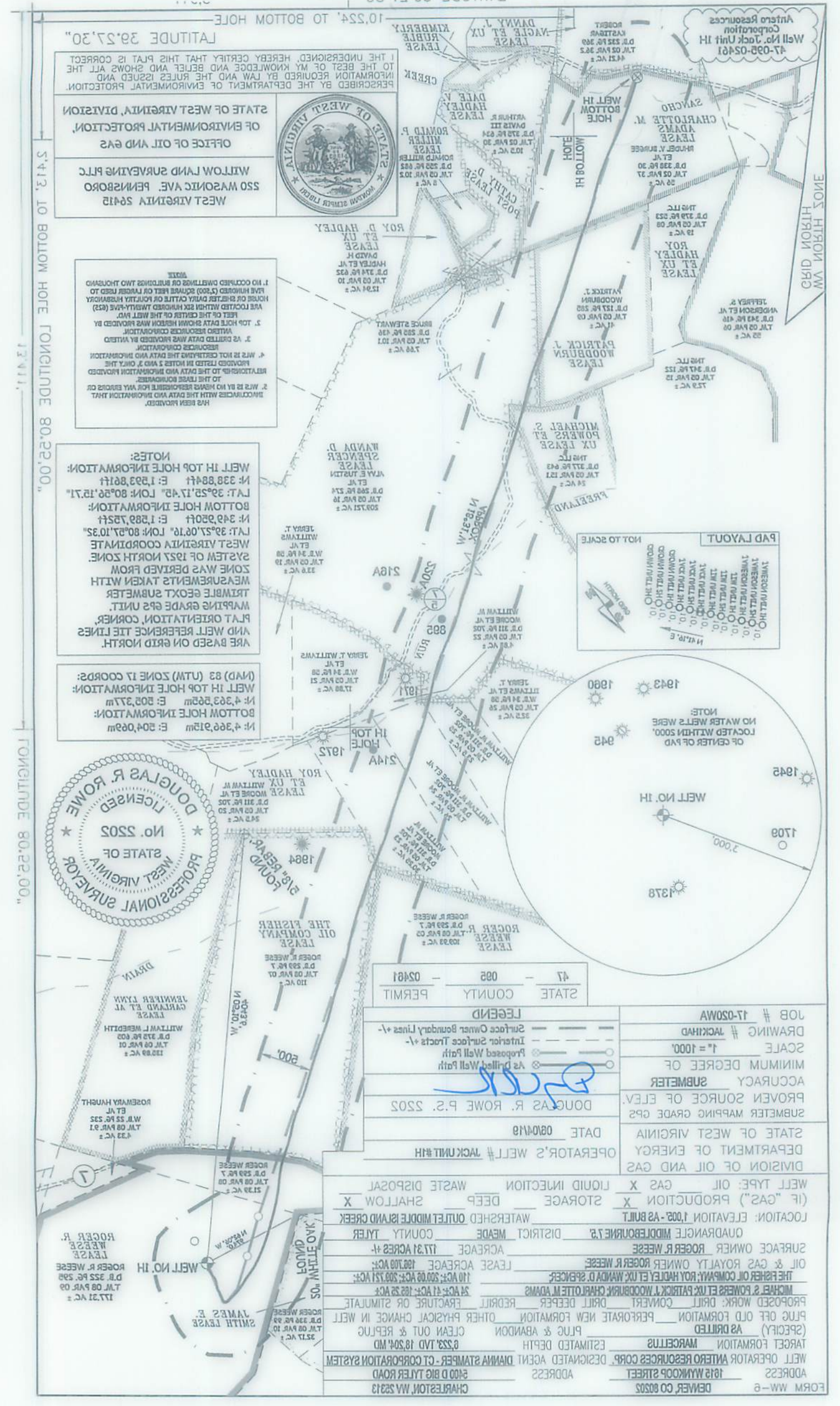
47 - 095 - 02461
 STATE COUNTY PERMIT

JOB # 17-020WIA
 DRAWING # JACKIHAD
 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 +/-
 - - - Proposed Well Path
 - - - As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202
 DATE 06/04/19
 OPERATOR'S WELL# JACK UNIT #1H

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,005' - AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE MIDDLEBOURNE 7.5 DISTRICT MEADE COUNTY TYLER
 SURFACE OWNER ROGER R. WEESE ACREAGE 177.31 ACRES +/-
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 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 6,223' TVD 18,204' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 DENVER, CO 80202 CHARLESTON, WV 25313



10,224' TO BOTTOM HOLE

LATITUDE 39.27,30"

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



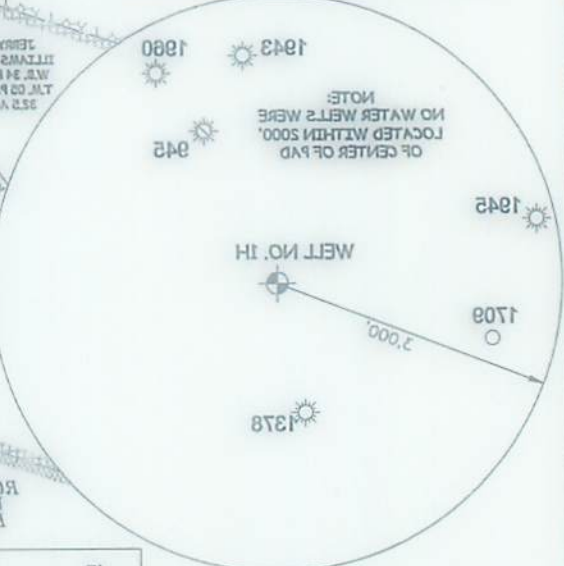
WILLOW LAND SURVEYING PLLC
550 WASHINGTON AVE. PENNSBORO
WEST VIRGINIA 26115

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NOTES:
WELL #11 TOP HOLE INFORMATION:
N: 388,884ft E: 1,293,861ft
LAT: 39°25'17.45" LON: 80°26'15.71"
BOTTOM HOLE INFORMATION:
N: 349,250ft E: 1,289,752ft
LAT: 39°27'08.16" LON: 80°27'10.32"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE EPS UNIT. PLAT ORIENTATION CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

WELL #11 TOP HOLE INFORMATION:
N: 4,366,913m E: 3,047,069m
BOTTOM HOLE INFORMATION:
N: 3,969,913m E: 3,047,069m
(NAD 83 (UTM) ZONE 17 COORDS)

PAD LAYOUT
NOTE: NO WATER WELLS WERE LOCATED WITHIN 5000' OF CENTER OF PAD



FORM WW-8 DENVER, CO 80202 1615 WYKOP STREET ADDRESS	WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT: DIANNA STAMPER - CT CORPORATION SYSTEM 0233 TWD 18.204 MD ESTIMATED DEPTH	TARGET FORMATION MARCELLUS	AS DRILLED PLUG & ABANDON	CLEAN OUT & REPLUG OTHER PHYSICAL CHANGE IN WELL	PROPOSED WORK: DRILL DEEPER REDRILL FRACTURE OR STIMULATE	MICHAEL S. POWERS ET UX PATRICK J. WOODBURN CHARLOTTE M. ADAMS LEASE ACAGE: 41 AC; 182.28 AC	THE FISHER OIL COMPANY; ROY HADLEY ET UX WANDA D. SPENCER LEASE ACAGE: 100.700 AC; 200.721 AC; 110 AC; 200.08 AC; 200.721 AC	OIL & GAS ROYALTY OWNER ROYER R. WEESSE SURFACE OWNER ROYER R. WEESSE	QUADRANGLE MIDDLEBORNE T.S. DISTRICT MEADE COUNTY TYLER LOCATION: ELEVATION 1,003 - AS BUILT (IF GAS) PRODUCTION X STORAGE DEEP SHALLOW X WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL	DEPARTMENT OF ENERGY	STATE OF WEST VIRGINIA	SUBMETER MAPPING GRADE GPS PROVEN SOURCE OF ELEV.	ACCURACY SUBMETER	MINIMUM DEGREE OF SCALE 1" = 1000'	DRAWING # JACKIHAD	JOB # 17-020WA
OPERATOR'S WELL # JACK UNIT #11	DATE 08/10/19	DOUGLAS R. ROWE P.S. 2202	AS DRILLED WELL PATH	PROPOSED WELL PATH	INTERIOR SURFACE TRACTS +/-	SURFACE OWNER BOUNDARY LINES +/-	LEGEND	STATE COUNTY PERMIT 47 - 082 - 02481								

LONGITUDE 80.22,00"

MW NORTH ZONE
GRID NORTH