

LATITUDE 39°20'00"

11,257'

6,836' TO BOTTOM HOLE

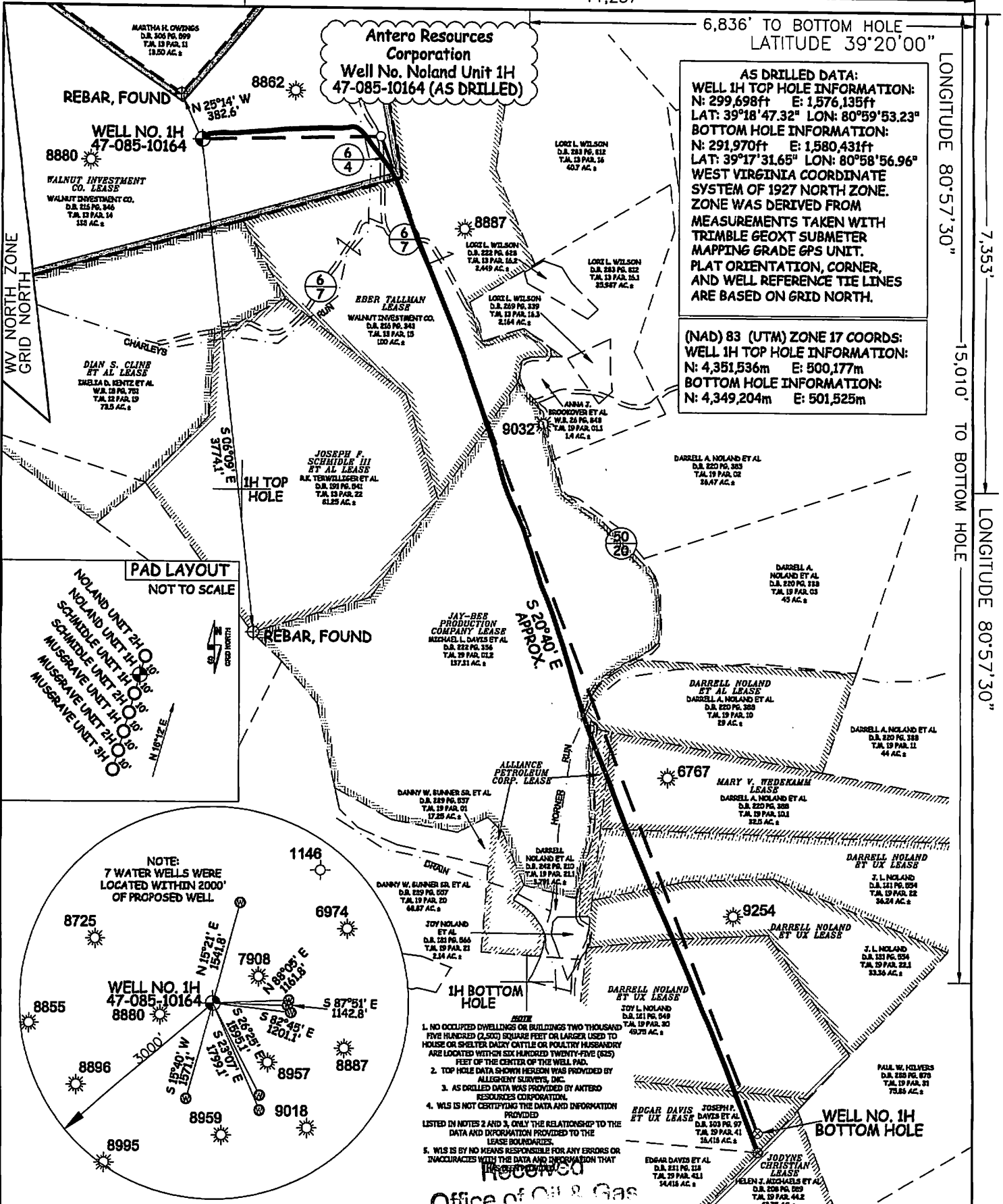
LATITUDE 39°20'00"

LONGITUDE 80°57'30"

7,353'

15,010' TO BOTTOM HOLE

LONGITUDE 80°57'30"

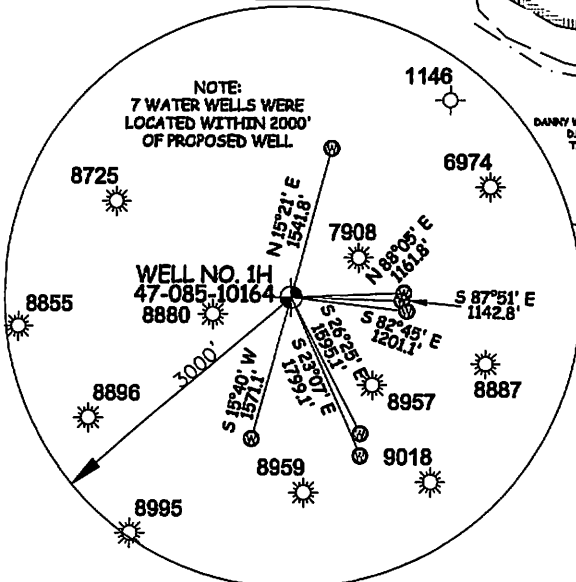


AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 299,698ft E: 1,576,135ft
 LAT: 39°18'47.32" LON: 80°59'53.23"
BOTTOM HOLE INFORMATION:
 N: 291,970ft E: 1,580,431ft
 LAT: 39°17'31.65" LON: 80°58'56.96"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
 ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH 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: 4,351,536m E: 500,177m
BOTTOM HOLE INFORMATION:
 N: 4,349,204m E: 501,525m

PAD LAYOUT
 NOT TO SCALE

NOLAND UNIT 2H 085-10164
 NOLAND UNIT 1H 085-10164
 SCHMIDLE UNIT 2H 085-10164
 MUSGRAVE UNIT 1H 085-10164
 MUSGRAVE UNIT 3H 085-10164



NOTE:
 7 WATER WELLS WERE LOCATED WITHIN 2000' OF PROPOSED WELL

1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POLLYTRY 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 RECORDS.
5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

Office of Oil & Gas

JOB # 13-009WA
 DRAWING # NOLAND1HAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



JAN 13 2016
 STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 266 HUSHERS RUN RD 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

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1,142' ORIGINAL - 1,121' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER WALNUT INVESTMENTS CO. ACREAGE 138 ACRES +/-
 OIL & GAS ROYALTY OWNER WALNUT INVESTMENT CO.; EBER TALLMAN; JAY-BEE PRODUCTION CO.; DARRELL NOLAND ET AL; LEASE ACREAGE 288 ACRES; 30 ACRES; 137.31 ACRES; 29 ACRES;
ALLIANCE PETROLEUM CORP.; MARY V. WEDEKAM; DARRELL NOLAND ET UX; DARRELL NOLAND ET UX; EDGAR DAVIS ET UX; JOYDNE CHRISTIAN 16 ACRES; 33 ACRES; 32 ACRES; 33 ACRES; 48.5 ACRES; 50 ACRES; 43.75 ACRES;
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___
 PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL
 (SPECIFY) (X) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,404' TVD 14,882 MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME RITCHIE
 PERMIT 02/05/2016