

LATITUDE 39°20'00" -1,167'

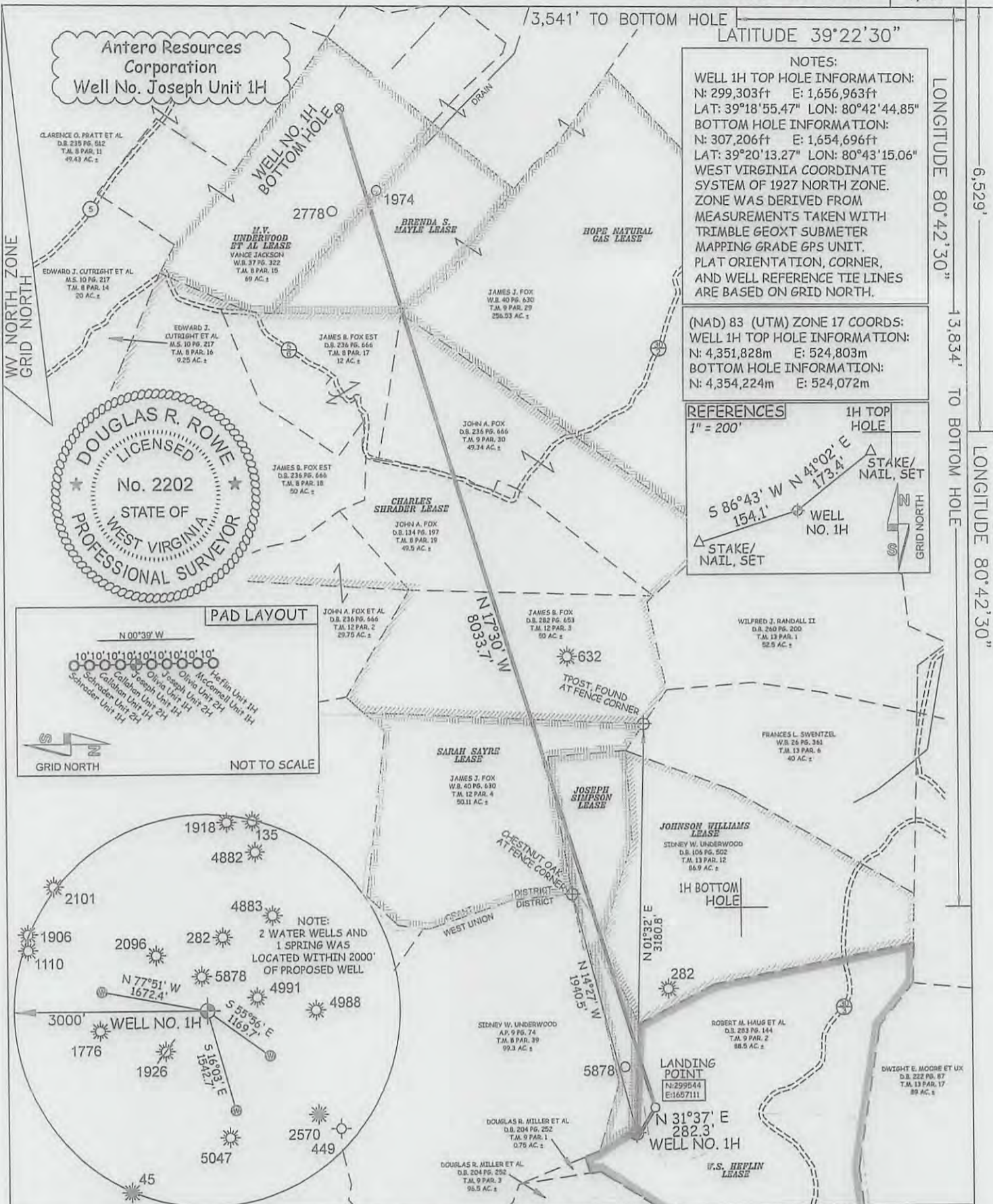
LATITUDE 39°22'30"

LONGITUDE 80°42'30"

6,529'

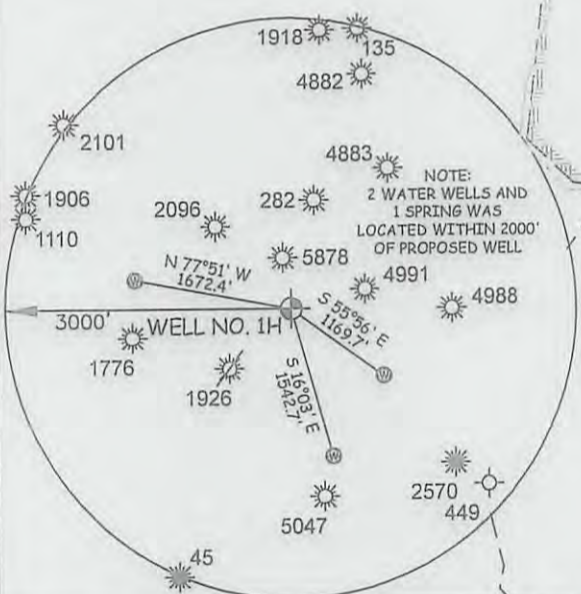
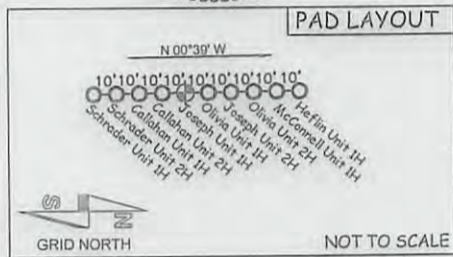
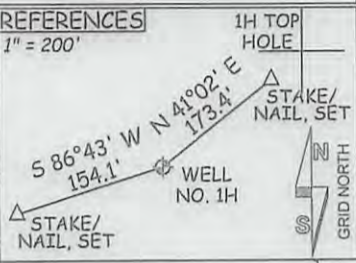
13,834' TO BOTTOM HOLE

LONGITUDE 80°42'30"



NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 299,303ft E: 1,656,963ft
 LAT: 39°18'55.47" LON: 80°42'44.85"
 BOTTOM HOLE INFORMATION:
 N: 307,206ft E: 1,654,696ft
 LAT: 39°20'13.27" LON: 80°43'15.06"
 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: 4,351,828m E: 524,803m
 BOTTOM HOLE INFORMATION:
 N: 4,354,224m E: 524,072m



JOB # 13-026WA
 DRAWING # JOSEPH1HR1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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.



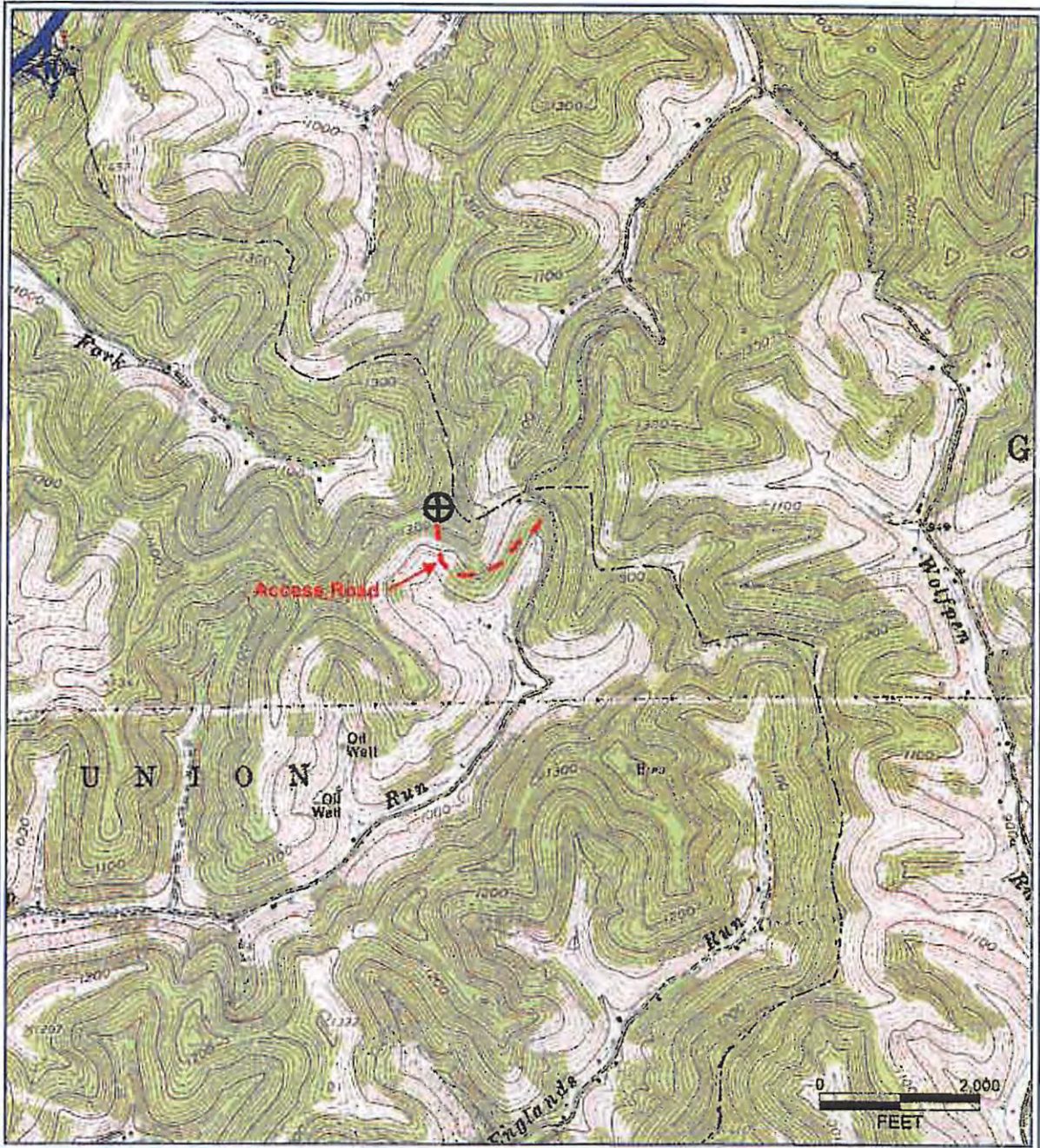
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

LEGEND
 --- Surface Owner Boundary Lines +/-
 - - - Interior Surface Tracts +/-
 X Existing Fence
 ⊕ Found monument, as noted

DOUGLAS R. ROWE P.S. 2202
 DATE 07/16/13
 OPERATOR'S WELL# JOSEPH UNIT #1H
 API WELL # 47 - 017 - 6327
 STATE COUNTY PERMIT

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 1,381' WATERSHED NUTTER FORK
 QUADRANGLE SMITHBURG 7.5' DISTRICT WEST UNION COUNTY DODDRIDGE
 SURFACE OWNER ROBERT M. HAUG ET AL ACREAGE 88.5 ACRES +/-
 OIL & GAS ROYALTY OWNER W.S. HEPLIN; JOSEPH SIMPSON; JOHNSON WILLIAMS; SARAH SAYRE; CHARLES SHRADER; HOPE NATURAL GAS; BRENDA S. MAYLE; M.V. UNDERWOOD ET AL LEASE ACREAGE 89 ACRES±; 22.85 ACRES±; 52.9 ACRES±; 50 ACRES±; 214 ACRES±; 147.5 ACRES±; 28 ACRES±; 50 ACRES±
 PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,300' TVD 16,200' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1625 17TH STREET ADDRESS 5400 D BIG TYLER ROAD
 DENVER, CO 80202 CHARLESTON, WV 26312

17-0006327



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*DCN
8-15-2013*

RECEIVED
Office of Oil and Gas

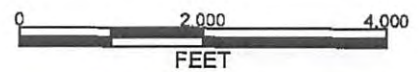
AUG 16 2013

WV Department of
Environmental Protection

Antero Resources Corporation

APPALACHIAN BASIN

Joseph Unit 1H
Doddridge County



REMARKS
QUADRANGLE: SMITHBURG
WATERSHED: NUTTER FORK
DISTRICT: WEST UNION

Date: 6/17/2013