

LATITUDE 39°12'30" 346'

1,639' TO BOTTOM HOLE
LATITUDE 39°15'00" 4H TOP HOLE

284' LONGITUDE 80°52'30"

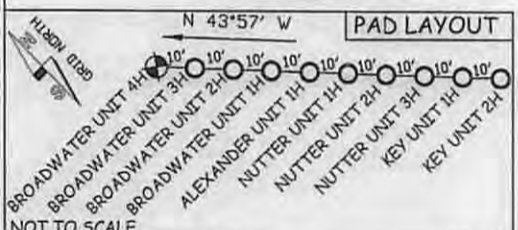
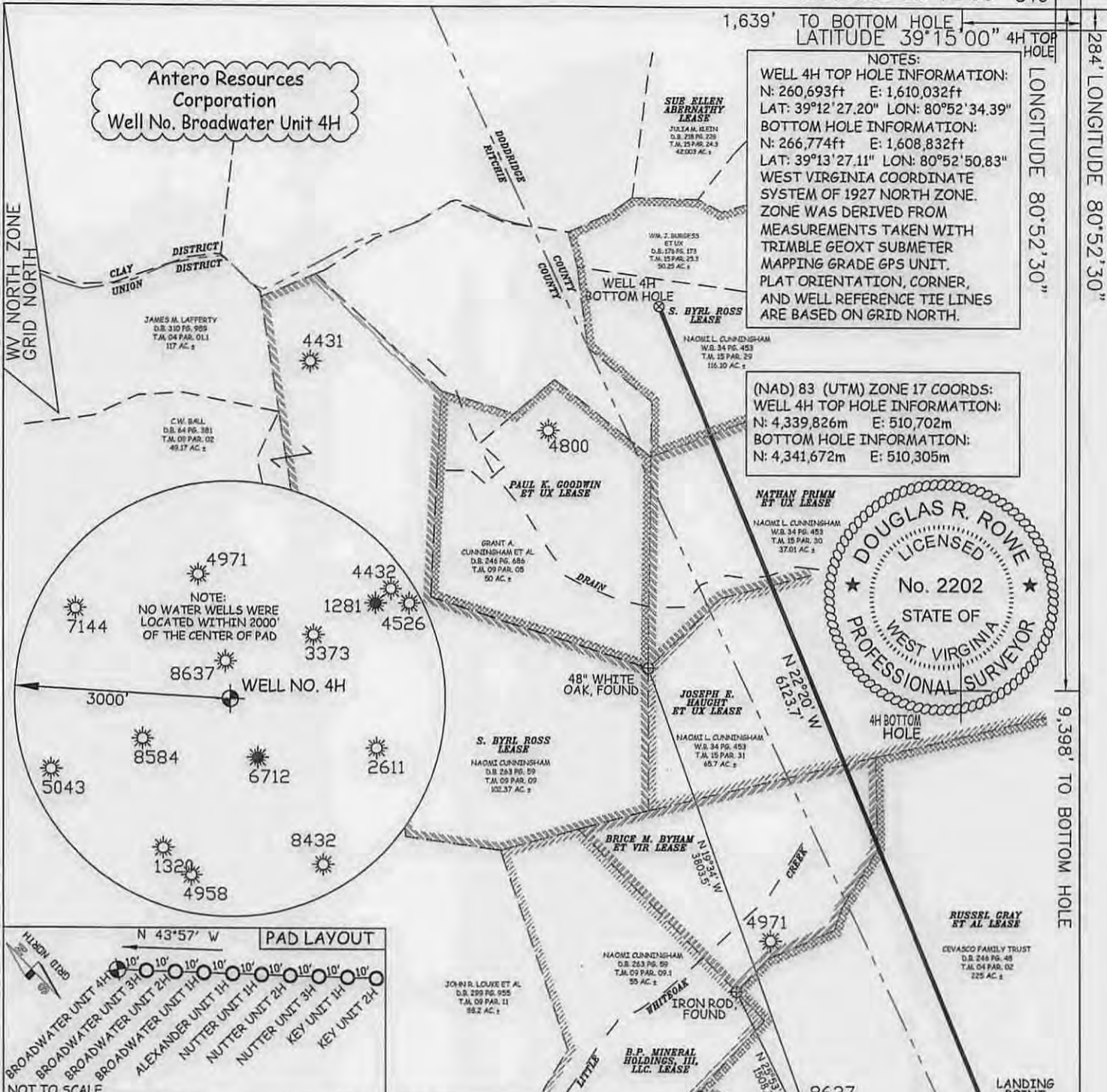
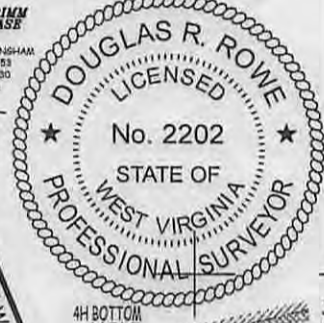
9,398' TO BOTTOM HOLE

COUNTY NAME PERMIT

Antero Resources Corporation
Well No. Broadwater Unit 4H

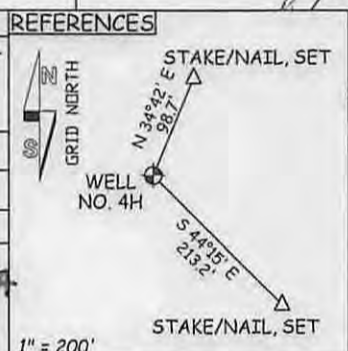
NOTES:
WELL 4H TOP HOLE INFORMATION:
N: 260,693ft E: 1,610,032ft
LAT: 39°12'27.20" LON: 80°52'34.39"
BOTTOM HOLE INFORMATION:
N: 266,774ft E: 1,608,832ft
LAT: 39°13'27.11" LON: 80°52'50.83"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT 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 4H TOP HOLE INFORMATION:
N: 4,339,826m E: 510,702m
BOTTOM HOLE INFORMATION:
N: 4,341,672m E: 510,305m



LEGEND
- - - Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
X Existing Fence
⊕ Iron Pipe, Found

DOUGLAS R. ROWE P.S. 2202
DATE 11/04/14
OPERATOR'S WELL# BROADWATER UNIT #4H
API WELL # 47 - 085 - 10189
STATE COUNTY PERMIT



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 PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

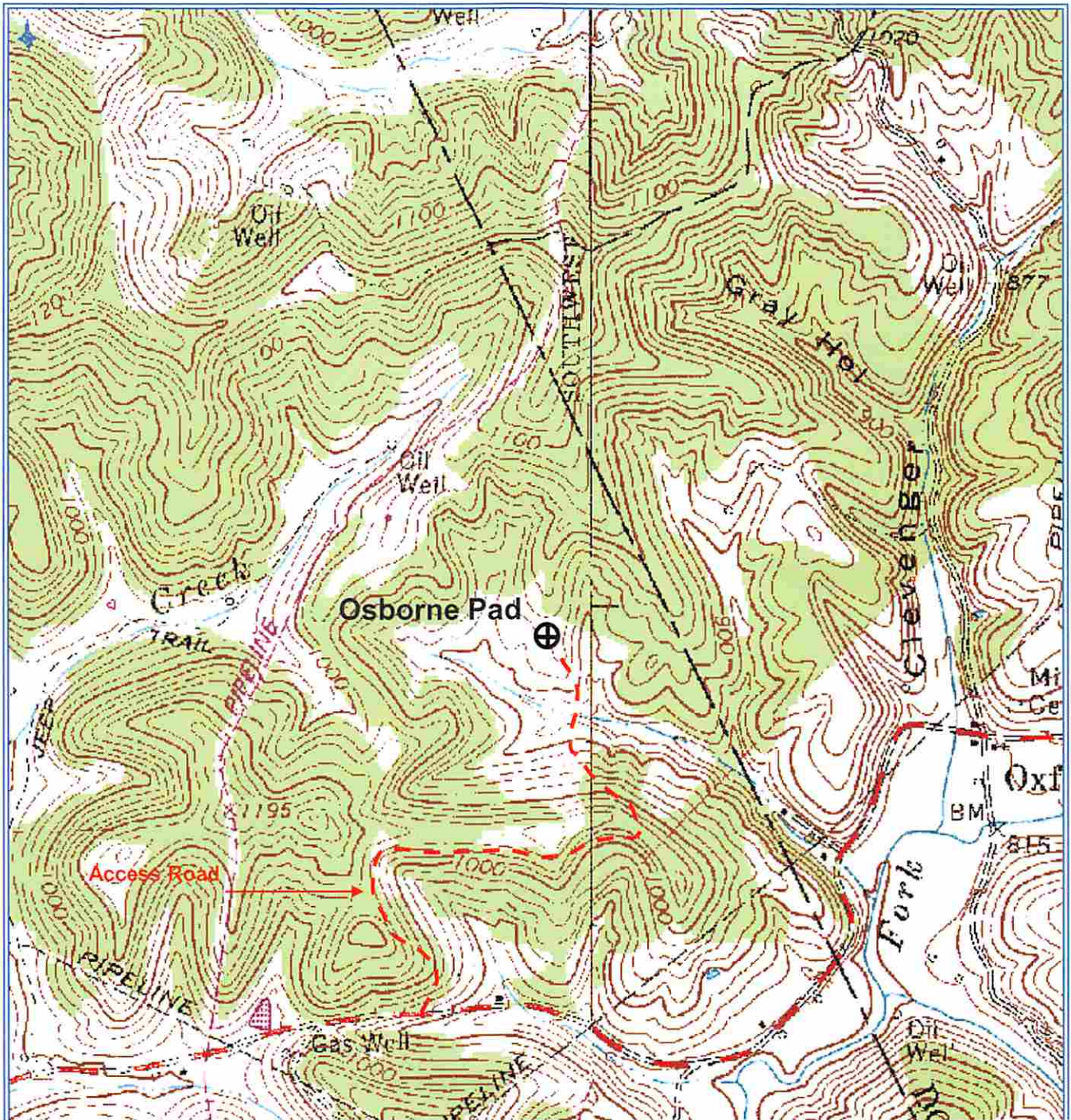
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

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 923' WATERSHED TRIBUTARY OF SOUTH FORK HUGHES RIVER
QUADRANGLE PULLMAN 7.5' DISTRICT UNION COUNTY RITCHIE

SURFACE OWNER MARVIN W. OSBOURNE ACREAGE 28.75 ACRES +/-
OIL & GAS ROYALTY OWNER LARRY G. BROADWATER; RUSSEL GRAY ET AL.; BRICE M. BYHAM ET VIR; JOSEPH E. HAUGHT ET UX; NATHAN PRIMM ET UX; S. BYRL ROSS LEASE ACREAGE 98.75 ACRES±; 225 ACRES±; 41 ACRES±; 66 ACRES±; 37 ACRES±; 195 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)
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,700' TVD 13,300' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

02/27/2015



RECEIVED
Office of Oil and Gas
NOV 25 2014
WV Department of
Environmental Protection

Antero Resources Corporation
Appalachian Basin
Broadwater Unit 4H
Ritchie County
Quadrangle: Pullman
Watershed: South Fork Hughes River
District: Union
Date: 11-12-14