

LATITUDE 39°12'30"

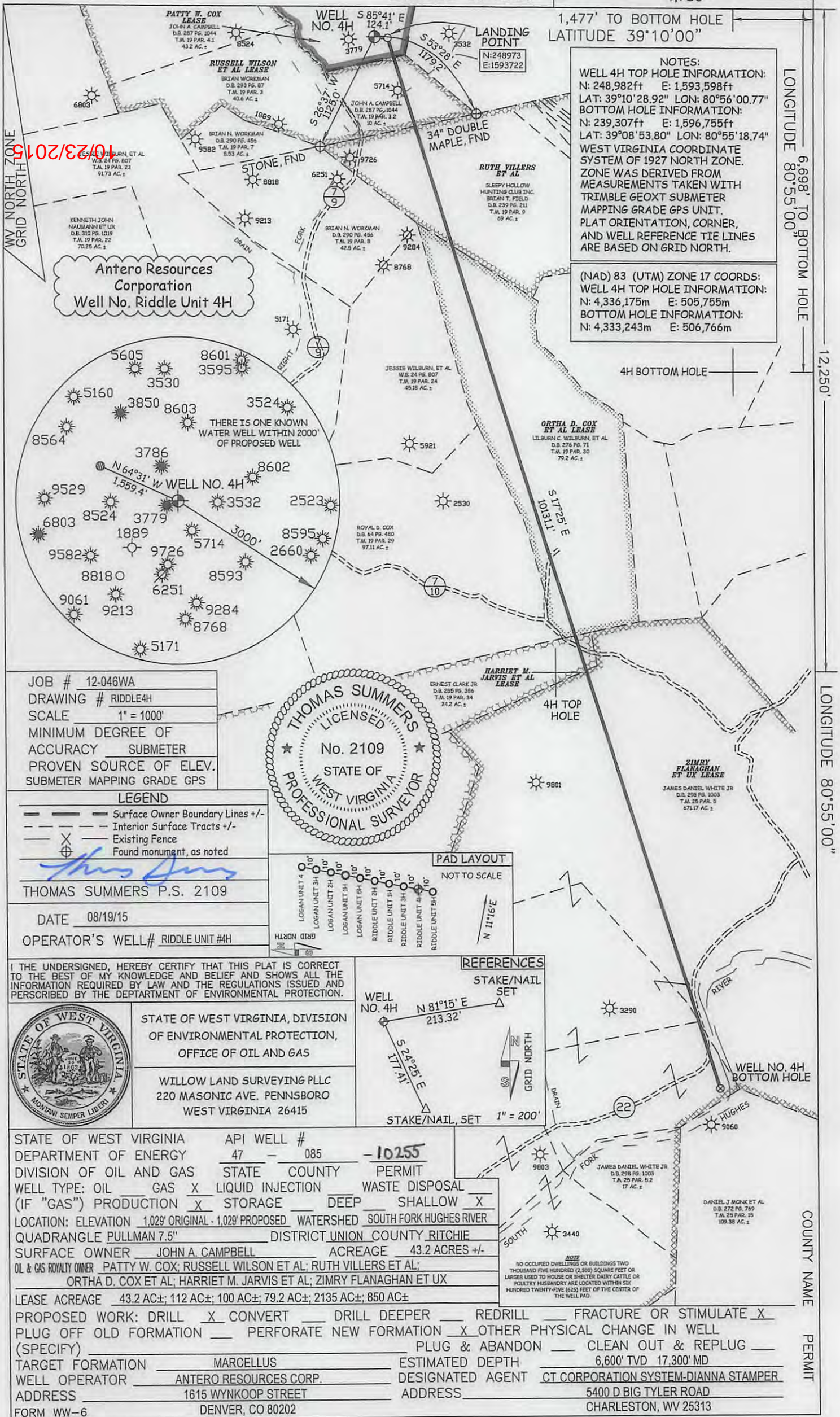
4,786'

1,477' TO BOTTOM HOLE
LATITUDE 39°10'00"

LONGITUDE 80°55'00"

12,250'

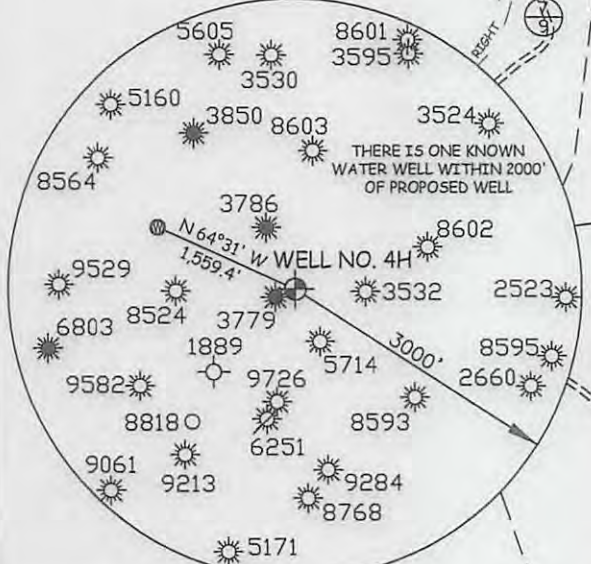
LONGITUDE 80°55'00"



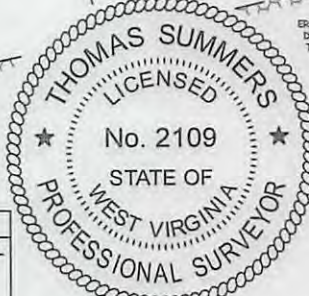
NOTES:
 WELL 4H TOP HOLE INFORMATION:
 N: 248,982ft E: 1,593,598ft
 LAT: 39°10'28.92" LON: 80°56'00.77"
 BOTTOM HOLE INFORMATION:
 N: 239,307ft E: 1,596,755ft
 LAT: 39°08'53.80" LON: 80°55'18.74"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
 ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,336,175m E: 505,755m
 BOTTOM HOLE INFORMATION:
 N: 4,333,243m E: 506,766m

Antero Resources Corporation
 Well No. Riddle Unit 4H

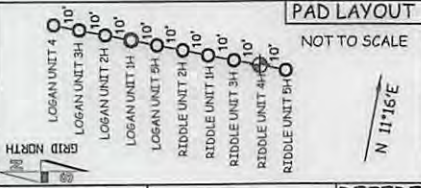


JOB # 12-046WA
 DRAWING # RIDDLE4H
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



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

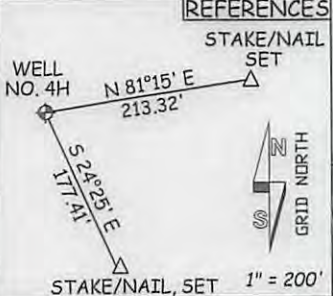
THOMAS SUMMERS P.S. 2109
 DATE 08/19/15
 OPERATOR'S WELL# RIDDLE UNIT #4H



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 REGULATIONS 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

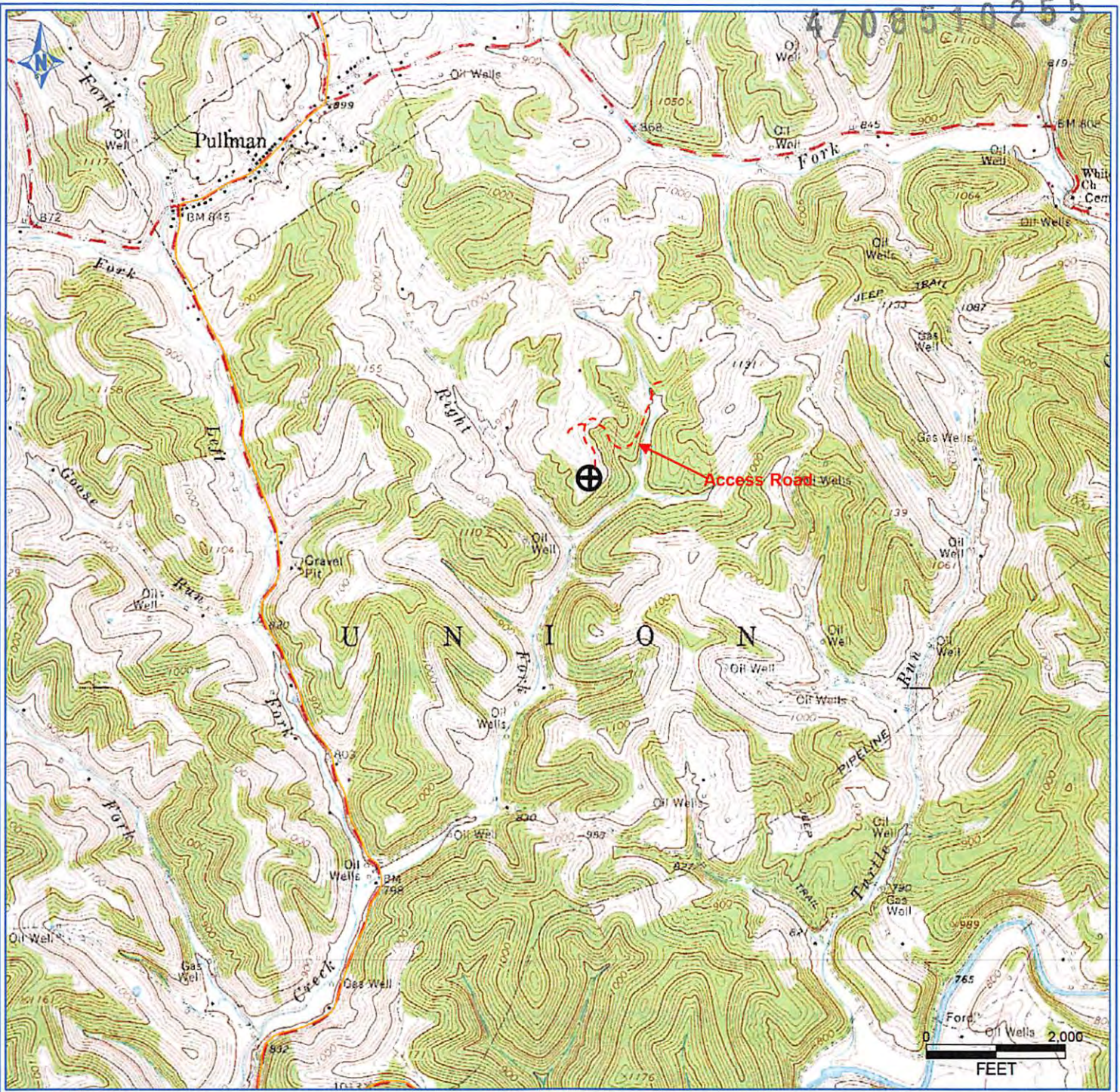


STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,029' ORIGINAL - 1,029' PROPOSED WATERSHED SOUTH FORK HUGHES RIVER
 QUADRANGLE PULLMAN 7.5" DISTRICT UNION COUNTY RITCHIE
 SURFACE OWNER JOHN A. CAMPBELL ACREAGE 43.2 ACRES +/-
 OIL & GAS ROYALTY OWNER PATTY W. COX; RUSSELL WILSON ET AL; RUTH VILLERS ET AL;
 ORTHA D. COX ET AL; HARRIET M. JARVIS ET AL; ZIMRY FLANAGHAN ET UX
 LEASE ACREAGE 43.2 AC±; 112 AC±; 100 AC±; 79.2 AC±; 2135 AC±; 850 AC±



PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,600' TVD 17,300' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

4708510255

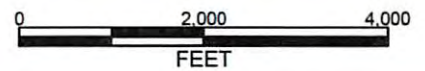


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Antero Resources Corporation

APPALACHIAN BASIN

Riddle Unit 4H
Ritchie County



REMARKS

QUADRANGLE: PULLMAN 7.5'
WATERSHED: SOUTH FORK HUGHES RIVER
DISTRICT: UNION

10/23/2015

Date: 7/24/2012

Received
Office of Oil & Gas
SEP 08 2015