

LATITUDE 39°12'30"

6,862'

LATITUDE 39°10'00" 2,008' TO BOTTOM HOLE

LONGITUDE 80°52'30"

8,512' TO BOTTOM HOLE

12,983'

LONGITUDE 80°52'30"

COUNTY NAME

PERMIT

Antero Resources Corporation
Well No. Hughes River Unit 3H

WELL NO. 3H

LANDING POINT
N:248050
E:1604638

NOTES:
WELL 3H TOP HOLE INFORMATION:
N: 248,096ft E: 1,603,322ft
LAT: 39°10'21.68" LON: 80°53'57.14"
BOTTOM HOLE INFORMATION:
N: 237,317ft E: 1,608,012ft
LAT: 39°08'35.87" LON: 80°52'55.49"
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 3H TOP HOLE INFORMATION:
N: 4,335,954m E: 508,722m
BOTTOM HOLE INFORMATION:
N: 4,332,695m E: 510,205m

LEGEND

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

DOUGLAS R. ROWE P.S. 2202

DATE 01/14/15 3H BOTTOM HOLE

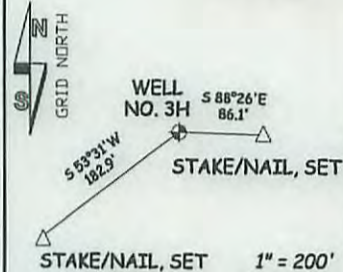
OPERATOR'S WELL# HUGHES RIVER UNIT #3H

API WELL #
47 - 085 - 1021a5 H6A

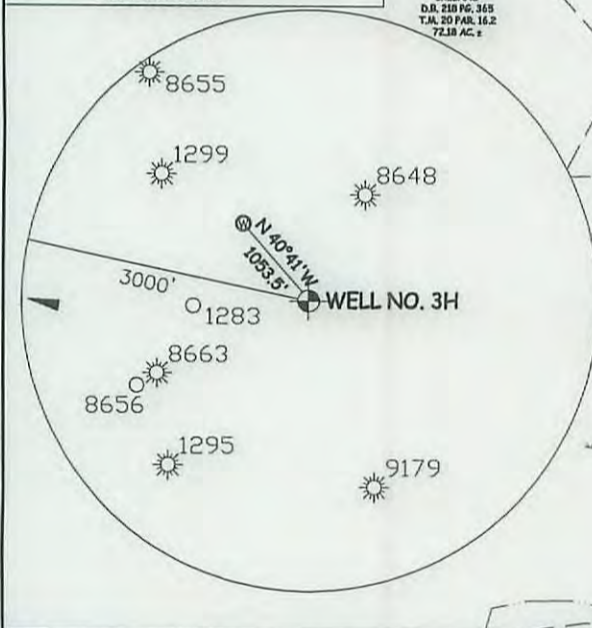
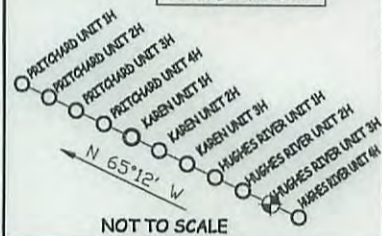
STATE COUNTY PERMIT

NOTE
NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR STABLE DAIRY CATTLE OR POULTRY HERDSHEDS ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

REFERENCES



PAD LAYOUT

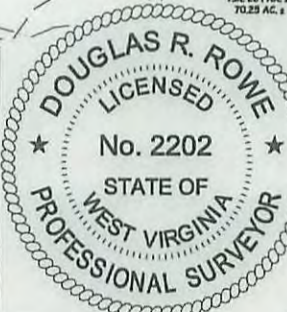


I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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

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



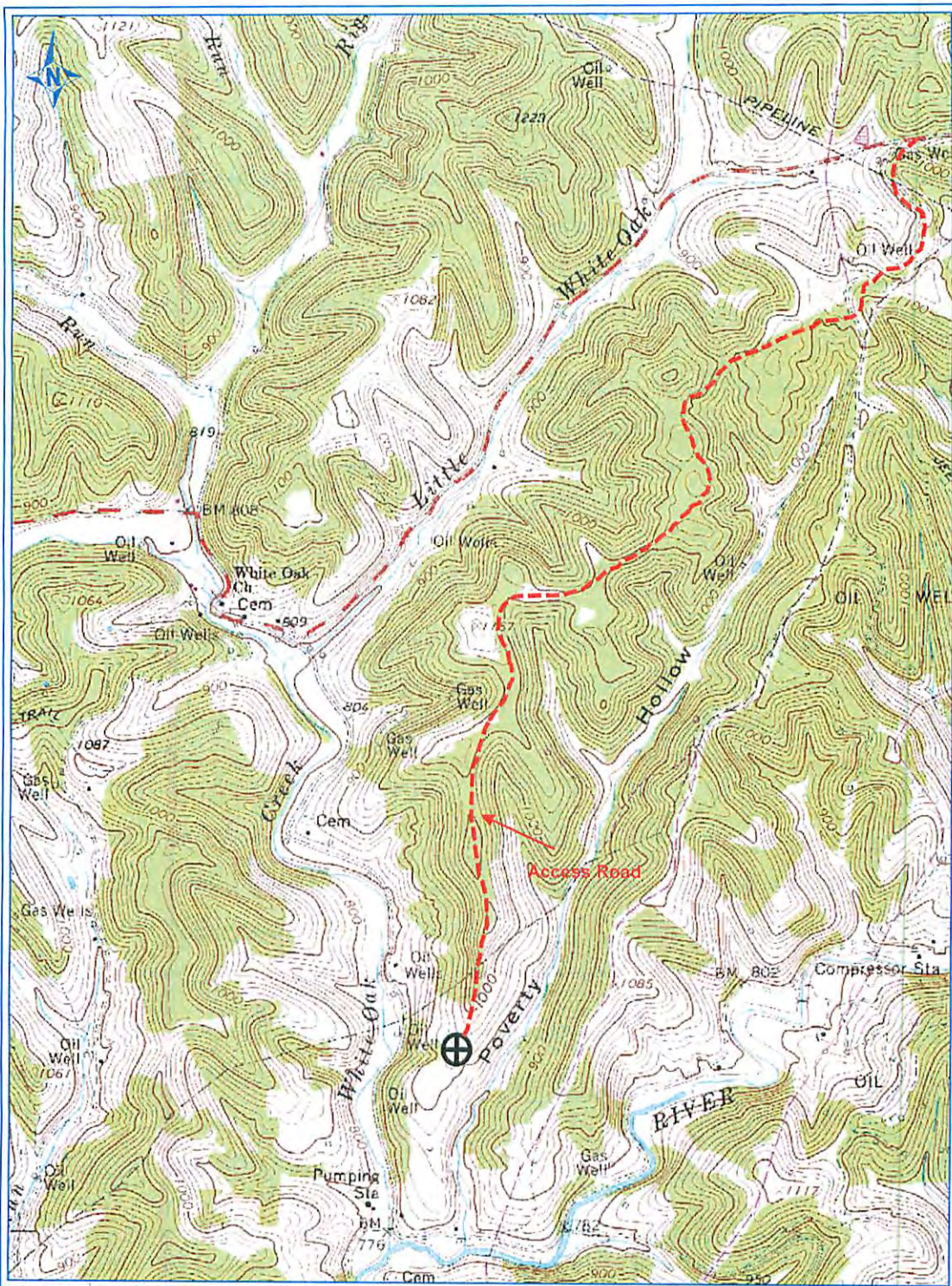
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ORIGINAL GROUND ELEV. 957' PROPOSED ELEV. 947'
WATERSHED SOUTH FORK HUGHES RIVER
QUADRANGLE PULLMAN 7.5' DISTRICT UNION COUNTY RITCHIE
SURFACE OWNER LYNWOOD IRELAND ET AL ACREAGE 144.276 ACRES +/-
OIL & GAS ROYALTY OWNER BELLE PRITCHARD; S A SMITH ET AL; LEASE ACREAGE 415 AC±; 145 AC±;
C C DAVIS ET AL; JOYCE E WEBBER; CHARLES CARSON; 130 AC±; 445.67 AC±;
BRADFORD SPIKER ET UX; BRADFORD SPIKER ET UX; 71.6 AC±; 80 AC±; 56 AC±;
MIKE SPIKER ET AL; JOSEPH SMITH ET AL 84.14 AC±; 63 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 6,500' TVD 18,400' 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

JOB # 14-126WA
DRAWING # HUGHESRIVER3H
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 3H
BOTTOM HOLE
11/20/2015



PETRA 5/2/2013 5:04:30 PM

Antero Resources Corp

APPALACHIAN BASIN

Hughes River Unit 3H

Ritchie County

REMARKS

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

By: ECM



Received

OCT 14 2015 08510265

Office of Oil and Gas
 WV Dept. of Environmental Protection

11/20/2015