

LATITUDE 39°10'00"

8,145'

LATITUDE 39°10'00" 1,896' TO BOTTOM HOLE

5,290'

1,659' TO BOTTOM HOLE

LONGITUDE 80°40'00"

LONGITUDE 80°40'00"

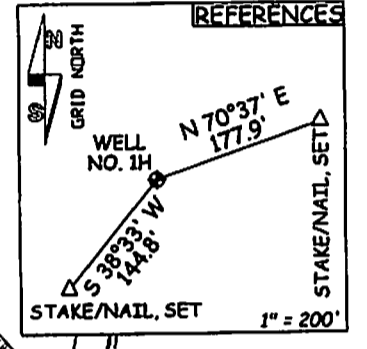
COUNTY NAME

PERMIT

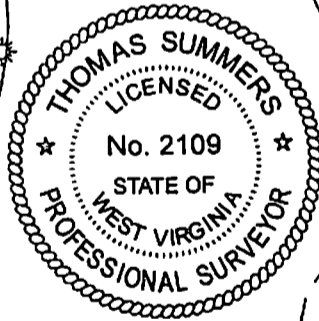
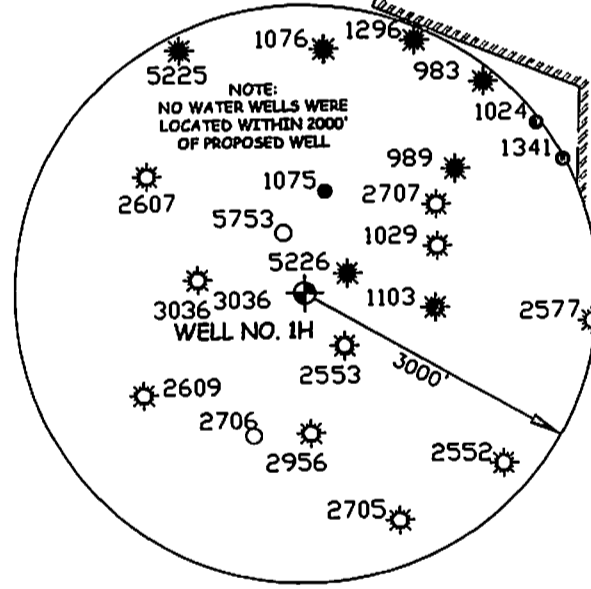
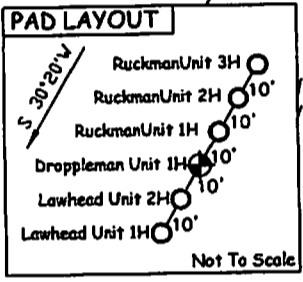
Antero Resources
Appalachian Corporation
Well No. Droppelman Unit 1H

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 239,780ft E: 1,661,002ft
 LAT: 39°09'07.72" LON: 80°41'43.39"
 BOTTOM HOLE INFORMATION:
 N: 233,329ft E: 1,667,167ft
 LAT: 39°08'04.77" LON: 80°40'24.07"
 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: 4,333,714m E: 526,336m
 BOTTOM HOLE INFORMATION:
 N: 4,331,781m E: 528,247m



LANDING POINT
 N:239733
 E:1661583



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

THOMAS SUMMERS P.S. 2109

JOB # 12-091WA
 DRAWING # DROPPLEMAN1H
 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 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

DATE 09/19/12
 OPERATOR'S WELL # DROPPLEMAN UNIT #1H
 API WELL # 6150
 47 - 017 - 6150
 STATE COUNTY PERMIT

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 1,250' WATERSHED TRIBUTARY OF TOMS FORK
 QUADRANGLE NEW MILTON 7.5' DISTRICT NEW MILTON COUNTY DODDRIDGE
 SURFACE OWNER JOHN F. ERWIN ACREAGE 79.3 ACRES +/-
 OIL & GAS ROYALTY OWNER JOHN F. ERWIN ET AL (21889); GEORGE J. DETERMAN ET UX; J.H. SEVERIN ET UX; EMMA DROPPLEMAN ET AL LEASE ACREAGE 79.3 ACRES +/-; 140 ACRES +/-; 274 ACRES +/-; 106 ACRES +/-
 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 7,200' TVD 16,400' MD
 WELL OPERATOR ANTERO RESOURCES APPALACHIAN CORP. DESIGNATED AGENT CT CORPORATION SYSTEM
 ADDRESS 1625 17TH STREET ADDRESS 5400 D BIG TYLER ROAD
 DENVER, CO 80202 CHARLESTON, WV 25313