

LATITUDE 39°10'00"

8,155'

LATITUDE 39°10'00" 1,444' TO BOTTOM HOLE

5,308'

14,147' TO BOTTOM HOLE

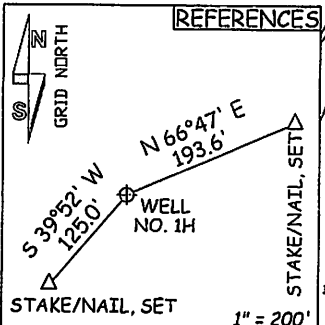
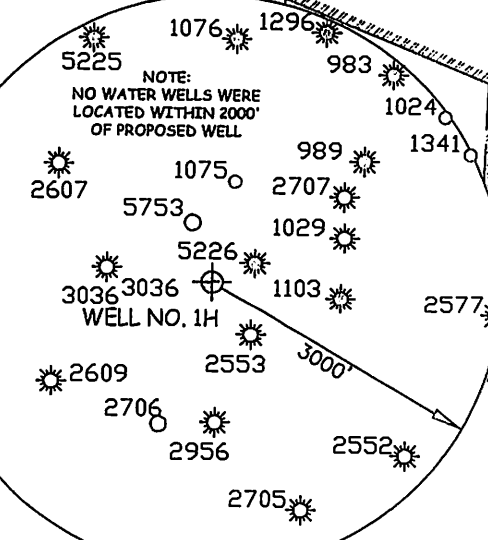
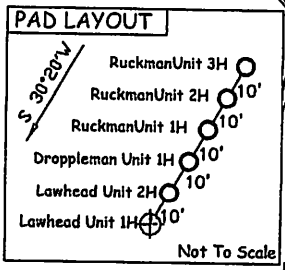
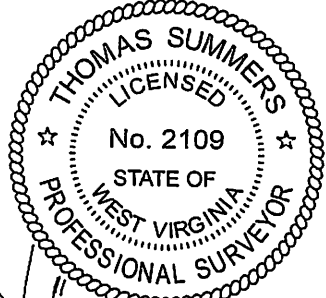
LONGITUDE 80°40'00"

LONGITUDE 80°40'00"

Antero Resources
Appalachian Corporation
Well No. Lawhead Unit 1H

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 239,762ft E: 1,660,992ft
 LAT: 39°09'07.54" LON: 80°41'43.51"
 BOTTOM HOLE INFORMATION:
 N: 230,835ft E: 1,667,587ft
 LAT: 39°07'40.17" LON: 80°40'18.32"
 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: 4,333,709m E: 526,333m
 BOTTOM HOLE INFORMATION:
 N: 4,331,023m E: 528,387m



LEGEND

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

JOB # 12-092WA
 DRAWING # LAWHEAD1H
 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
 266 HUSHERS RUN RD PENNSBORO
 WEST VIRGINIA 26415

THOMAS SUMMERS P.S. 2109
 DATE 09/11/12

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 STATE COUNTY PERMIT
 QUADRANGLE NEW MILTON 7.5' DISTRICT NEW MILTON COUNTY DODDRIDGE

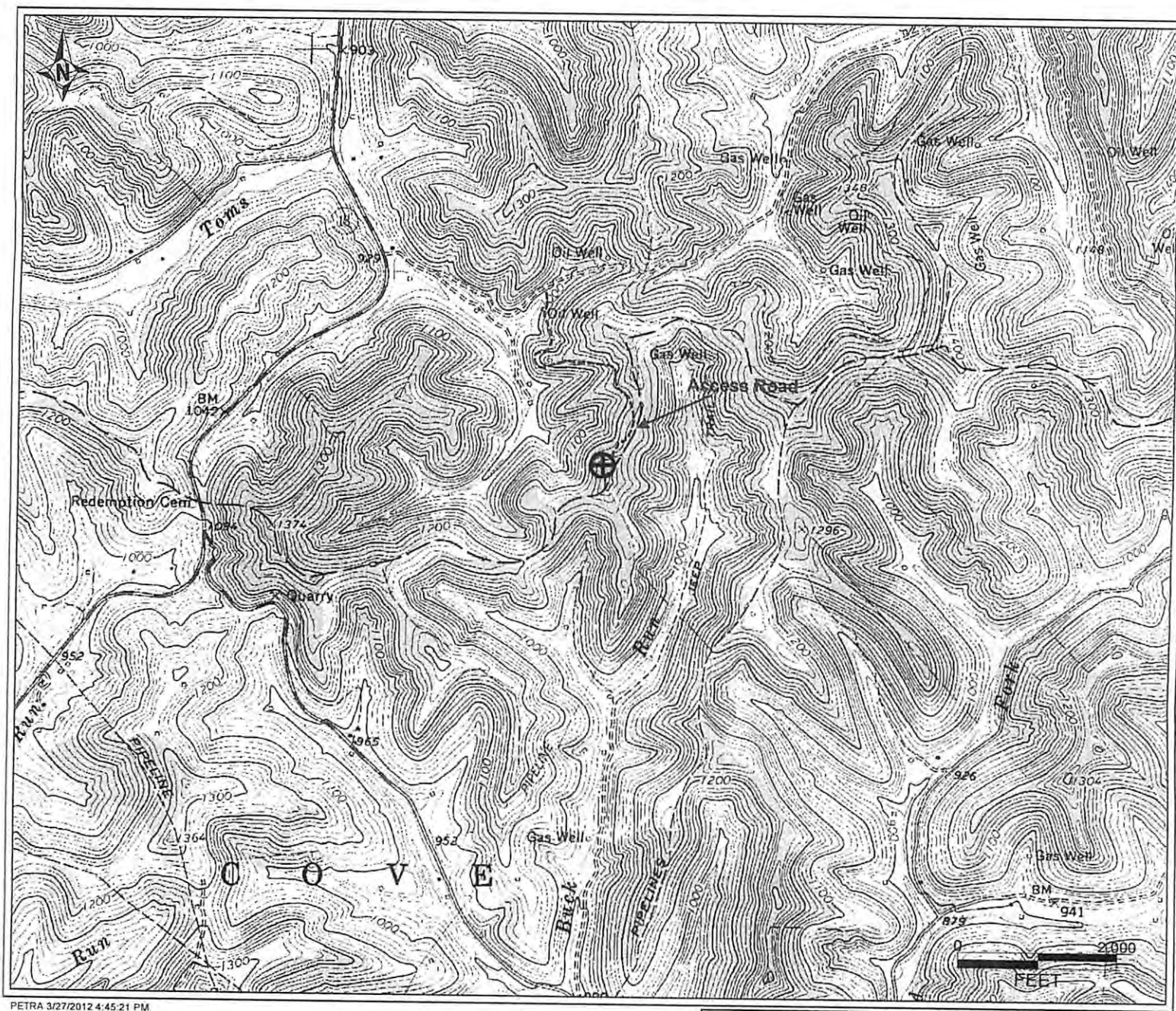
SURFACE OWNER JOHN F. ERWIN ACREAGE 79.3 ACRES +/-
 OIL & GAS ROYALTY OWNER JOHN F. ERWIN ET AL (21889); GEORGE J. DETERIAN ET UX; JOSEPH I. SMUTE ET AL; LEASE ACREAGE 79.3 ACRES+; 140 ACRES+; 100 ACRES+;
 EDMOND COLE ET UX; J.H. SEVERIN ET UX; HENRY J. DROPPLEMAN ET UX; EMMA DROPPLEMAN ET AL; C.E. LAWHEAD ET AL 202 ACRES+; 274 ACRES+; 104 ACRES+; 106 ACRES+; 224 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 7,300' TVD 18,600' MD

WELL OPERATOR ANTERO RESOURCES APPALACHIAN CORP. DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1625 17TH STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

02/01/2013

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Antero Resources Corporation
APPALACHIAN BASIN
Lawhead Unit 1H Doddridge County
REMARKS QUADRANGLE: NEW MILTON WATERSHED: TRIO OF TOMS FORK DISTRICT: NEW MILTON
Date: 9/12/2012

02/01/2013