

LATITUDE 39°12'30" 242' TO TOP HOLE

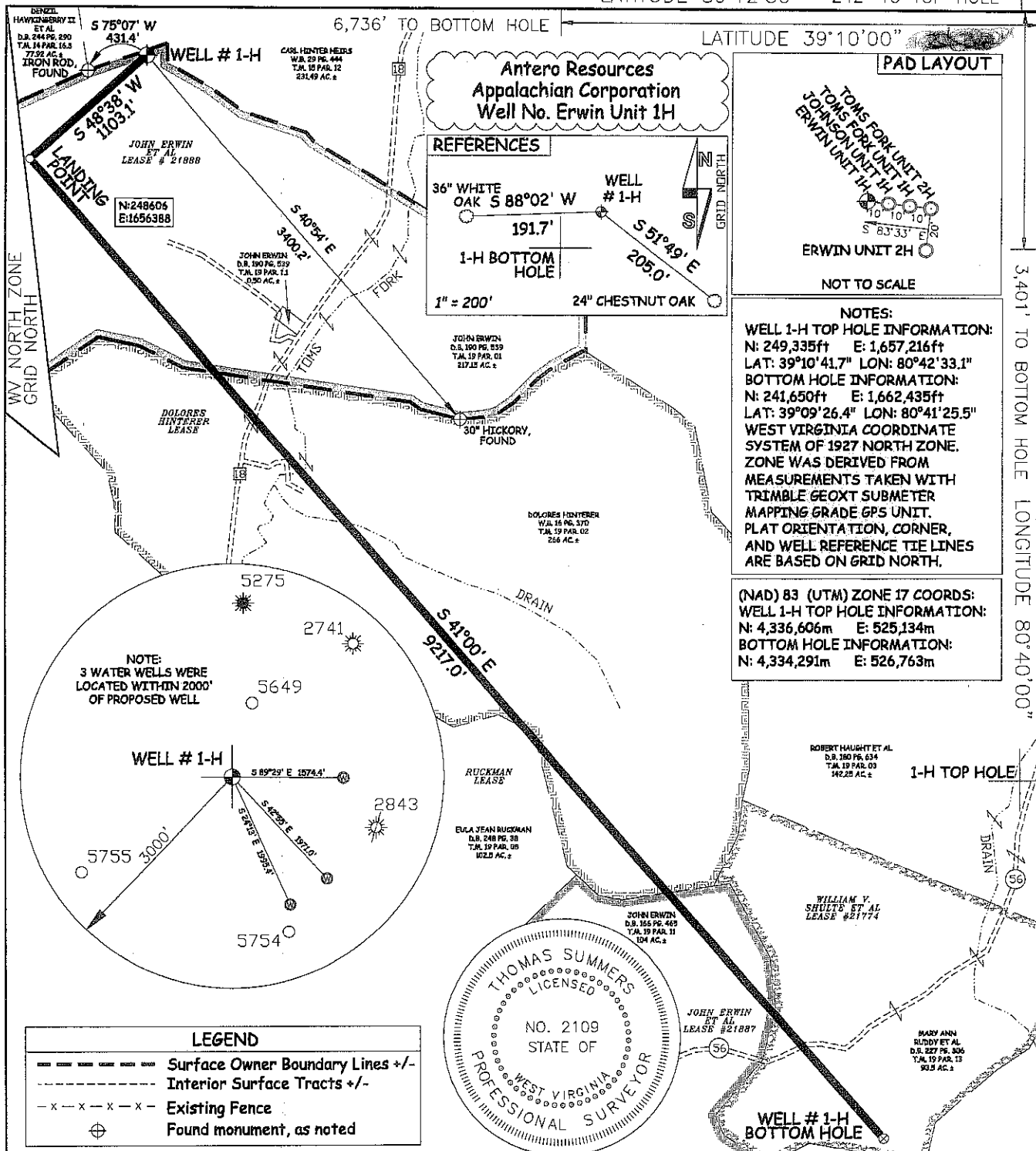
LATITUDE 39°10'00"

LONGITUDE 80°42'30"

3,401' TO BOTTOM HOLE LONGITUDE 80°40'00"

10,961' TO TOP HOLE

COUNTY NAME PERMIT



**Antero Resources  
Appalachian Corporation  
Well No. Erwin Unit 1H**

**REFERENCES**

36" WHITE OAK S 88°02' W 191.7'

WELL # 1-H

24" CHESTNUT OAK S 57°49' E 205.0'

1-H BOTTOM HOLE

1" = 200'

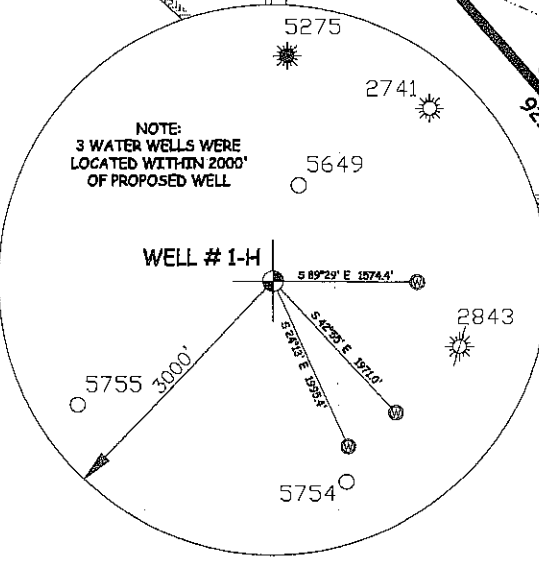
**PAD LAYOUT**

TOMS FORK UNIT 2H  
JOHN ERWIN UNIT 1H  
JOHN ERWIN UNIT 1H  
ERWIN UNIT 2H

NOT TO SCALE

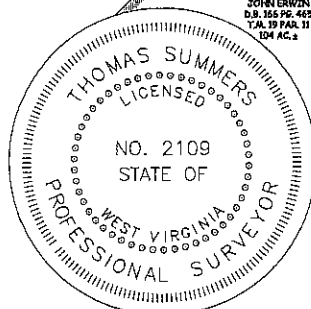
**NOTES:**  
WELL 1-H TOP HOLE INFORMATION:  
N: 249,335ft E: 1,657,216ft  
LAT: 39°10'41.7" LON: 80°42'33.1"  
BOTTOM HOLE INFORMATION:  
N: 241,650ft E: 1,662,435ft  
LAT: 39°09'26.4" LON: 80°41'25.5"  
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH 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 1-H TOP HOLE INFORMATION:  
N: 4,336,606m E: 525,134m  
BOTTOM HOLE INFORMATION:  
N: 4,334,291m E: 526,763m



**LEGEND**

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



JOB # **11-097**  
DRAWING # **ERWIN1HPR3**  
SCALE **1" = 1000'**

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.

MINIMUM DEGREE OF ACCURACY **SUBMETER**  
PROVEN SOURCE OF ELEV. **SUBMETER MAPPING GRADE GPS**

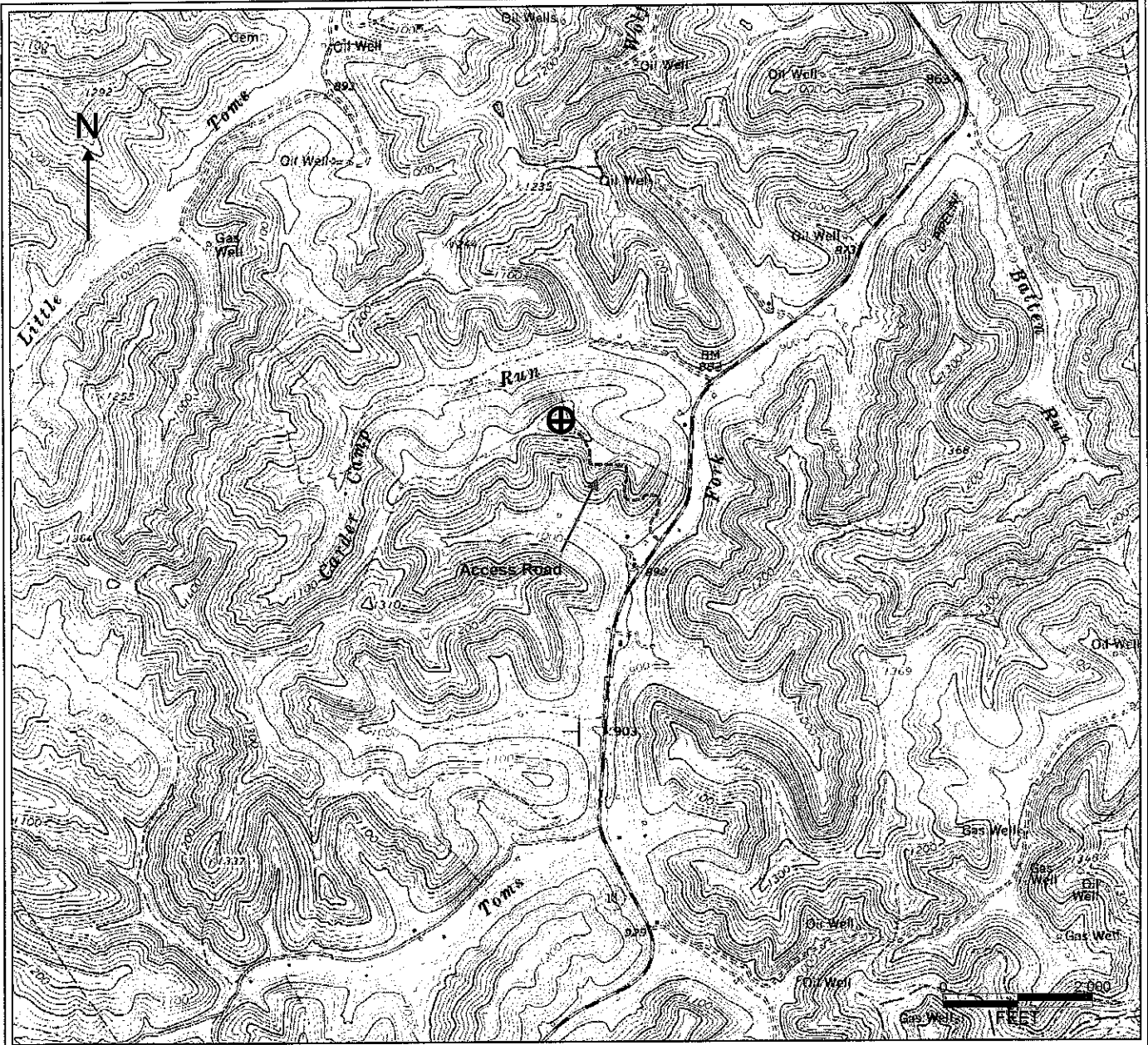
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WILLOW LAND SURVEYING PLLC  
266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

THOMAS SUMMERS P.S. 2109  
DATE **12/13/11**  
OPERATOR'S WELL# **ERWIN UNIT 1H**  
API WELL # **47 - 017**

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** STATE COUNTY PERMIT  
LOCATION: ELEVATION **1,223'** WATERSHED **TOMS FORK** DISTRICT **NEW MILTON** COUNTY **DODDRIDGE**

QUADRANGLE **NEW MILTON 7.5'**  
SURFACE OWNER **JOHN ERWIN** ACREAGE **217.15 ACRES +/-**  
OIL & GAS ROYALTY OWNER **JOHN ERWIN ET AL (21898); DOLORES HINTERER;** LEASE ACREAGE **218 AC; 266 AC;**  
**EULA JEAN RUCKMAN; JOHN ERWIN ET AL (21887); WILLIAM V. SHULTE ET AL (21774)** **235.72 AC; 104 AC; 93.5 AC**  
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) \_\_\_  
PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_ ESTIMATED DEPTH **7,300' TVD 17,700' MD**  
TARGET FORMATION **MARCELLUS**  
WELL OPERATOR **ANTERO RESOURCES APPALACHIAN CORP.** DESIGNATED AGENT **DIANNA STAMPER**  
ADDRESS **1625 17TH STREET** ADDRESS **5400 D BIG TYLER ROAD**  
**DENVER, CO 80202** **CHARLESTON, WV 25313**



PETRA 1/4/2012 10:17:06 AM

<b>Antero Resources Corporation</b>
APPALACHIAN BASIN
Erwin Unit 1H Doddridge County
REMARKS QUADRANGLE: NEW MILTON WATERSHED: TOMS FORK DISTRICT: NEW MILTON
Date: 01/04/2012