

LATITUDE 39°25'00"

8,990'

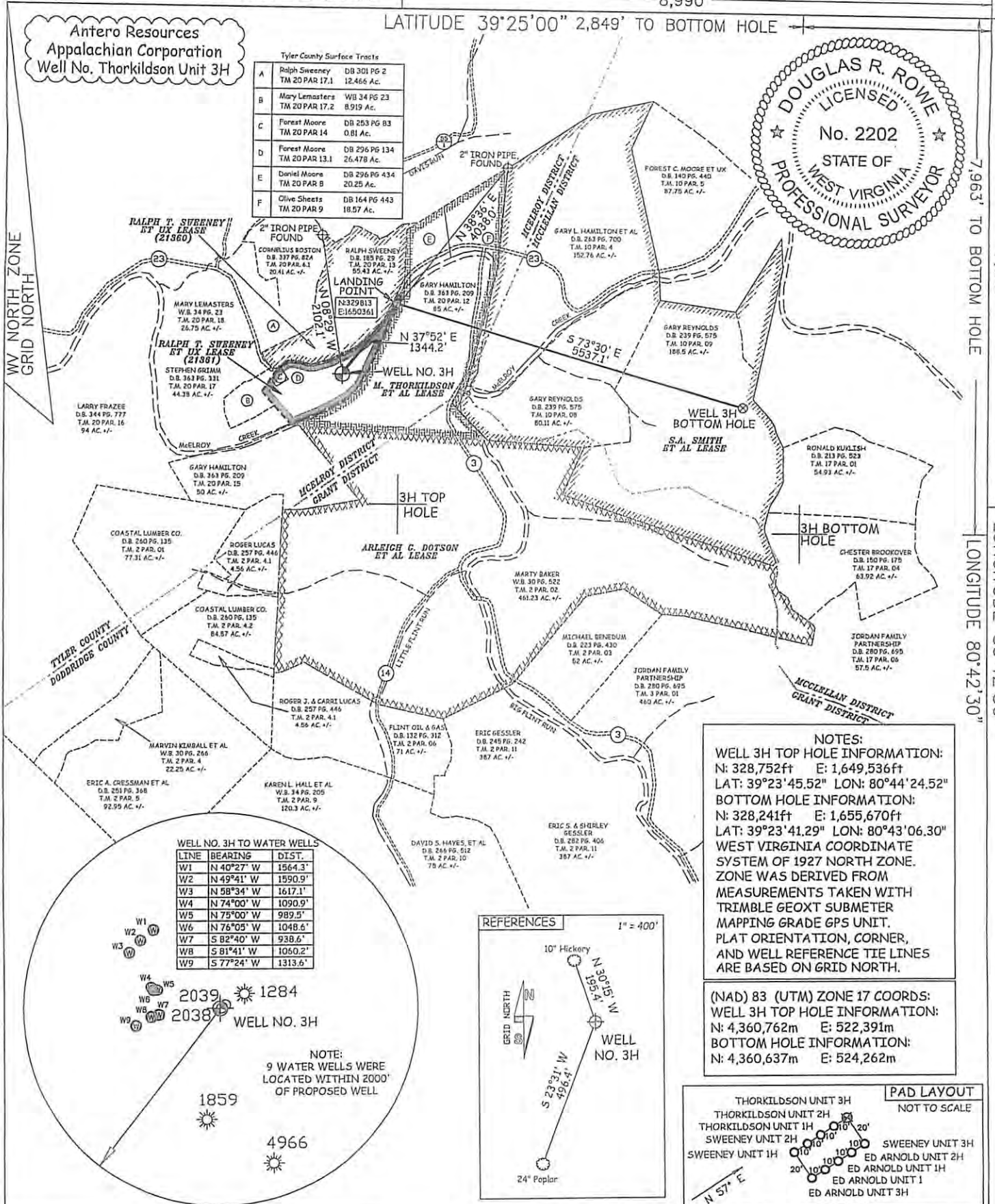
LATITUDE 39°25'00" 2,849' TO BOTTOM HOLE

Antero Resources Appalachian Corporation Well No. Thorkildson Unit 3H



Tyler County Surface Tracts

A	Ralph Sweeney TM 20 PAR 17.1	DB 301 PG 2 12.466 Ac.
B	Mary Lemasters TM 20 PAR 17.2	WB 34 PG 23 8.919 Ac.
C	Forest Moore TM 20 PAR 14	DB 253 PG 83 0.81 Ac.
D	Forest Moore TM 20 PAR 13.1	DB 296 PG 134 26.478 Ac.
E	David Moore TM 20 PAR 8	DB 296 PG 434 20.25 Ac.
F	Clive Sheets TM 20 PAR 9	DB 164 PG 443 18.57 Ac.



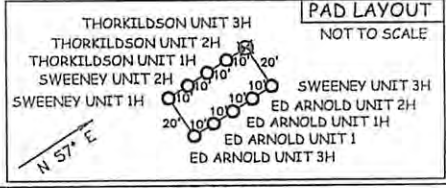
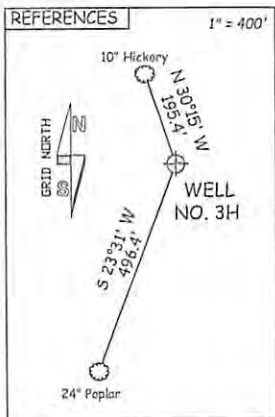
WELL NO. 3H TO WATER WELLS

LINE	BEARING	DIST.
W1	N 40°27' W	1564.3'
W2	N 49°41' W	1990.9'
W3	N 58°34' W	1617.1'
W4	N 74°00' W	1090.9'
W5	N 75°00' W	989.5'
W6	N 76°05' W	1048.6'
W7	S 82°40' W	938.6'
W8	S 81°41' W	1050.2'
W9	S 77°24' W	1313.6'

NOTE: 9 WATER WELLS WERE LOCATED WITHIN 2000' OF PROPOSED WELL

NOTES:
 WELL 3H TOP HOLE INFORMATION:
 N: 328,752ft E: 1,649,536ft
 LAT: 39°23'45.52" LON: 80°44'24.52"
 BOTTOM HOLE INFORMATION:
 N: 328,241ft E: 1,655,670ft
 LAT: 39°23'41.29" LON: 80°43'06.30"
 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: 4,360,762m E: 522,391m
 BOTTOM HOLE INFORMATION:
 N: 4,360,637m E: 524,262m



JOB # 12-053WA
 DRAWING # THORKILDSON3H
 SCALE 1" = 2000'
 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

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

DOUGLAS R. ROWE P.S. 2202

DATE 01/29/13 OPERATOR'S WELL# THORKILDSON UNIT #3H

API WELL # 47 - 095 - 02.07746A
 STATE COUNTY PERMIT

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
 LOCATION: ELEVATION 749' WATERSHED McELROY CREEK
 QUADRANGLE CENTER POINT 7.5' DISTRICT McELROY COUNTY TYLER

SURFACE OWNER FOREST & BRENDA MOORE ACREAGE 26.478 ACRES +/-
 OIL & GAS ROYALTY OWNER RALPH T. SWEENEY ET UX (21361); M. THORKILDSON ET AL; RALPH T. SWEENEY ET UX (21360); S.A. SMITH ET AL LEASE ACREAGE 25.668 ACRES+; 125.91 ACRES+; 55.43 ACRES+; 443.88 ACRES+;

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
 TARGET FORMATION BURKETT ESTIMATED DEPTH 6,900' TVD 15,500' MD

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

02/01/2013

7,963' TO BOTTOM HOLE
7,536'
LONGITUDE 80°42'30"

COUNTY NAME PERMIT



DTG: 8/5/2011 11:17:38 PM

95-02077

Antero Resources Corporation
APPALACHIAN BASIN
Thorkildson Unit 3H
Tyler County
REMARKS QUADRANGLE: CENTER POINT WATERSHED: MCELROY DISTRICT: MCELROY
Date: 10/18/12