

LATITUDE 39°20'00"

5,589'

1,995' TO BOTTOM HOLE
LATITUDE 39°17'30"

983' TO BOTTOM HOLE
LONGITUDE 80°57'30"

12,588'

LONGITUDE 80°57'30"

Antero Resources Corporation
Well No. Piper Unit 2H

DARRELL A. NOLAND ET AL. C.E. GIBBELL LEASE
D.B. 220 PG. 300 T.J.L. 19 PAR. 11 44 AC. ±
N 75°08' E 1997.1'

MARY V. WEDEKAMM LEASE
J.L. NOLAND D.B. 181 PG. 254 T.J.L. 19 PAR. 22 36.24 AC. ±
DARRELL A. NOLAND ET AL. D.B. 220 PG. 300 T.J.L. 19 PAR. 10.1 32.5 AC. ±
THE HAUGHT FAMILY TRUST LEASE
S 84°30' E 328.1'

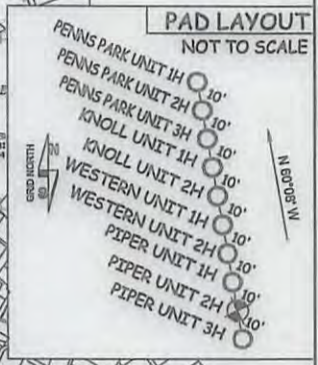
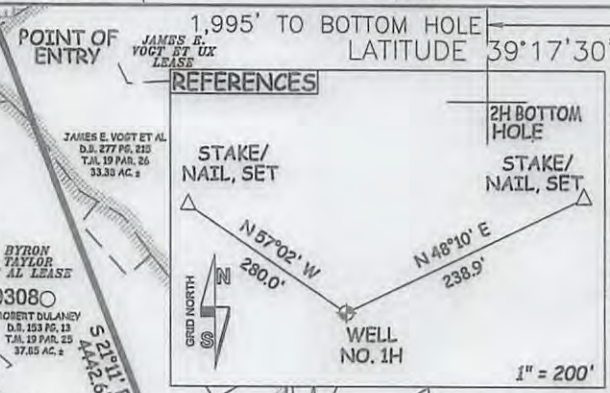
J.L. NOLAND D.B. 181 PG. 254 T.J.L. 19 PAR. 22.1 33.36 AC. ±
JOY L. NOLAND D.B. 181 PG. 259 T.J.L. 19 PAR. 30 49.75 AC. ±

STEVEN EDGE LEASE
REBECCA J. BARKER ET AL. D.B. 287 PG. 497 T.J.L. 19 PAR. 25.6 120.9 AC. ±

IRON PIPE FOUND
S 60°05' E 1513.5'

IRON PIPE FOUND
S 54°12' E 2411.5'

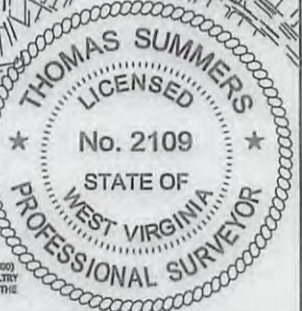
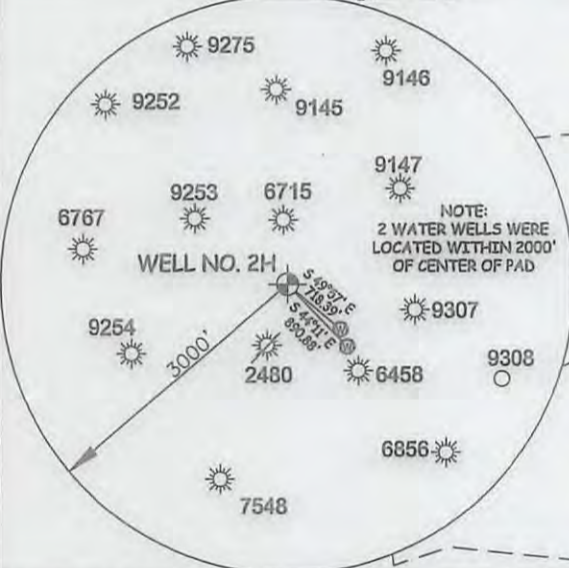
BYRON TAYLOR ET AL LEASE 9308
ROBERT DULANEY D.B. 153 PG. 13 T.J.L. 19 PAR. 25 37.05 AC. ±



(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
N: 14,270,721ft E: 1,646,617ft
POINT OF ENTRY INFORMATION:
N: 14,271,265ft E: 1,648,538ft
BOTTOM HOLE INFORMATION:
N: 14,267,151ft E: 1,650,211ft

NOTES:
WELL 2H TOP HOLE INFORMATION:
N: 294,371ft E: 1,581,717ft
LAT: 39°17'55.59" LON: 80°58'41.10"
BOTTOM HOLE INFORMATION:
N: 290,741ft E: 1,585,253ft
LAT: 39°17'20.29" LON: 80°57'55.38"
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 2H TOP HOLE INFORMATION:
N: 4,349,942m E: 501,904m
BOTTOM HOLE INFORMATION:
N: 4,348,854m E: 503,000m



JOB # 16-005WA
DRAWING # PIPER2H
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 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
266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

LEGEND

— Surface Owner Boundary Lines +/-

- - - Interior Surface Tracts +/-

X Existing Fence

⊕ Rebar, Found

THOMAS SUMMERS P.S. 2109

DATE 05/11/16

OPERATOR'S WELL# PIPER UNIT 2H

API WELL # 47 - 085 - 10292

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 1,159' ORIGINAL - 1,143' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER
QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY ROCKWELL

SURFACE OWNER DARRELL A. NOLAND ET AL. ACREAGE 32.5 ACRES +/-

OIL & GAS ROYALTY OWNER MARY V. WEDEKAMM; C.E. GIBBELL; BYRON TAYLOR ET AL; STEVEN EDGE; JAMES E. VOGT ET UX; ORMA JOHNSON TRUST; JOHN C. HEVER; CINDA FLEMING LEASE ACREAGE 32.5 ACRES±; 44 ACRES±; 87 ACRES±; 36.48 ACRES±; 33.38 ACRES±; 21 ACRES±; 13 ACRES±; 18.7 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

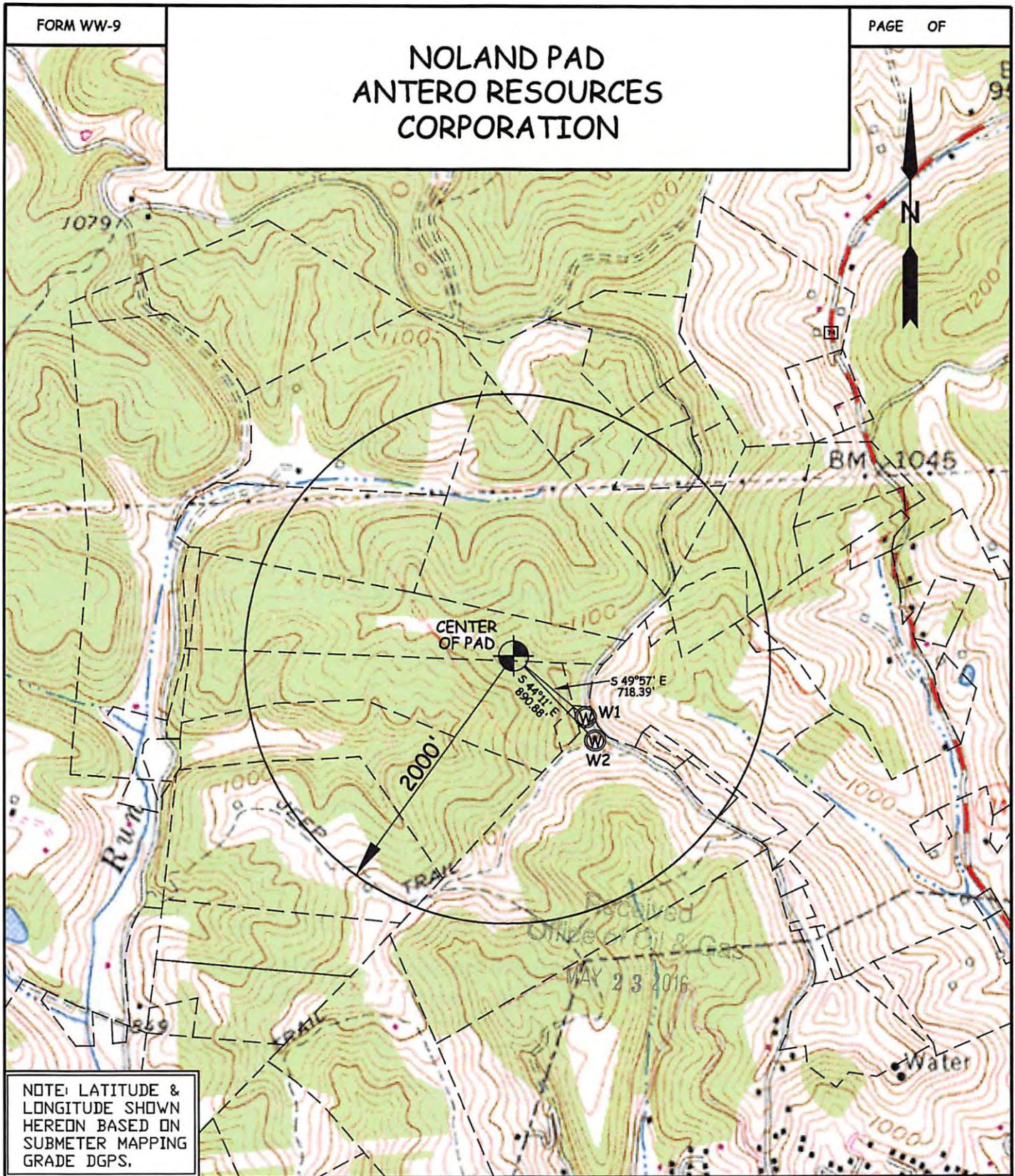
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,800' TVD 12,400 MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME PERMIT

09/02/2016

NOLAND PAD ANTERO RESOURCES CORPORATION



NOTE: LATITUDE & LONGITUDE SHOWN HEREON BASED ON SUBMETER MAPPING GRADE DGPS.

| WELL | SURFACE OWNER | ADDRESS | DISTRICT-TAX MAP-PARCEL | WELL LATITUDE | WELL LONGITUDE |
|------|----------------------------|--------------------------------------|-------------------------|----------------|----------------|
| W1 | MICHAEL G. & LINDA HAMMETT | 702 PARK DR. PENNSBORO, WV 26415 | 3-19-23 | 39° 17' 51.31" | 80° 58' 34.57" |
| W2 | PAUL W. HILVERS | 12479 PULLMAN RD PENNSBORO, WV 26415 | 3-19-31 | 39° 17' 49.58" | 80° 58' 33.63" |

| | | |
|--|--|---|
| WILLOW LAND SURVEYING, PLLC P.O. BOX 17, PENNSBORO, WV 26415 (304) 659-1717 | TOPO SECTION(S) OF : PENNSBORO 7.5' QUAD. | SCALE : 1-INCH = 1000-FEET 0' 1000' 2000' 3000' |
| | JOB #: 13-043WA | |
| DATE: 03/11/14 | DRAWN BY: G.B.K. | FILE: NOLANDWATERMAP |