

LATITUDE 39°12'30" 3,261'

LATITUDE 39°15'00"

LONGITUDE 80°55'00"

6,862'

10,936' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Left Fork Unit 4H

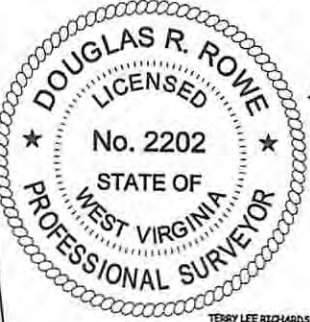
WELL NO. 4H
BOTTOM HOLE

5,078' TO BOTTOM HOLE

NOTE:
NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY. HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

NOTES:
WELL 4H TOP HOLE INFORMATION:
N: 254,346ft E: 1,595,208ft
LAT: 39°11'22.18" LON: 80°55'41.42"
BOTTOM HOLE INFORMATION:
N: 265,475ft E: 1,593,566ft
LAT: 39°13'11.91" LON: 80°56'04.52"
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 4H TOP HOLE INFORMATION:
N: 4,337,817m E: 506,218m
BOTTOM HOLE INFORMATION:
N: 4,341,199m E: 505,661m



WV NORTH ZONE
GRID NORTH

TERRY LEE RICHARDS
D.B. 194 PG. 507
T.M. 40 PAR. 05
50 AC. ±

CHERYL HUNTING ET UX LEASE
ROBERT P. PUGH ET AL
D.B. 237 PG. 425
T.M. 40 PAR. 06
84.5 AC. ±

BERNARD W. RICHARDS ET AL LEASE
ROGER D. RICHARDS
D.B. 242 PG. 317
T.M. 40 PAR. 10
109.55 AC. ±

TERRY LEE RICHARDS
D.B. 194 PG. 507
T.M. 40 PAR. 05
50 AC. ±

DUANE RIGGS
D.B. 274 PG. 39
T.M. 40 PAR. 20
19.9 AC. ±

JULIE SATRE
D.B. 242 PG. 162
T.M. 40 PAR. 22
119.5 AC. ±

RACHIE E. JONES ET AL LEASE
DUANE RIGGS
D.B. 274 PG. 39
T.M. 40 PAR. 20
35.19 AC. ±

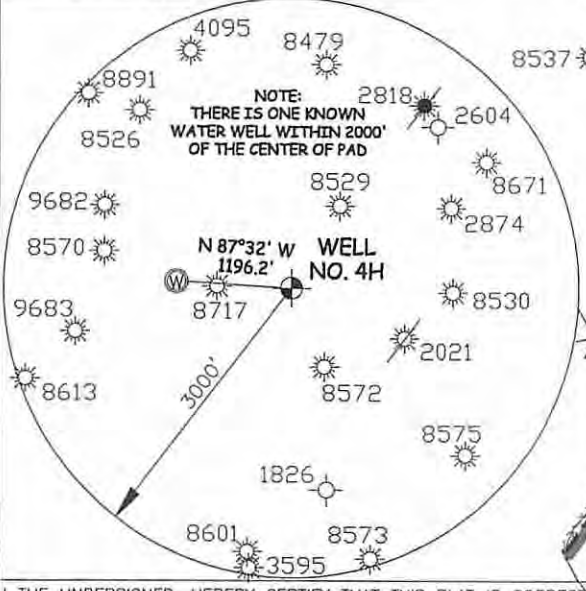
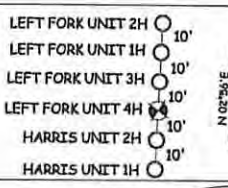
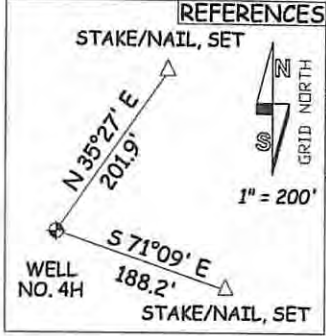
J.B. ELLIOTT ET UX LEASE
THOMAS ELLIOTT
W.B. 22 PG. 69
T.M. 40 PAR. 21
69.35 AC. ±

W. G. BURCAN ET AL LEASE
JOHN CAMPBELL
D.B. 171 PG. 662
T.M. 8 PAR. 3
126.23 AC. ±

KEVIN U. WRIGHT
W.B. 38 PG. 535
T.M. 8 PAR. 4
71 AC. ±

FRED MCKINNEY ET AL
D.B. 290 PG. 879
T.M. 05 PAR. 05
91.16 AC. ±

I.S. HALL ET AL LEASE



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 PRESCRIBED 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

DATE 03/12/15
OPERATOR'S WELL # LEFT FORK UNIT #4H

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ORIGINAL GROUND ELEV. 1,039' PROPOSED ELEV. 1021'
WATERSHED SOUTH FORK HUGHES RIVER
QUADRANGLE PULLMAN 7.5 DISTRICT UNION COUNTY RITCHIE
SURFACE OWNER O'NEILL FAMILY TRUST ET AL ACREAGE 300.45 ACRES +/-
OIL & GAS ROYALTY OWNER O'NEILL FAMILY TRUST ET AL DENNIS HADDOX ET AL MICHAEL P. HEASTER ET AL BERNARD RICHARDS ET AL I.S. HALL ET AL J.B. ELLIOTT ET UX BERNARD W. RICHARDS ET AL CHERYL HUNTING ET UX
LEASE ACREAGE 517.83 ACRES +/- 41.75 ACRES +/- 234.5 ACRES +/- 214 ACRES +/- 100 ACRES +/- 70 ACRES +/- 114 ACRES +/- 141.29 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) Permit Modification - BHL PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,700' TVD 19,200' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

RECEIVED Office of Oil and Gas JUN 06 2015
WV Department of Environmental Protection
JOB # LEFTFORKUNIT4HRI
DRAWING # LEFTFORKUNIT4HRI
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
LEGEND
Surface Owner Boundary Lines +/-
Interior Surface Tracts +/-
Existing Fence
Found monument, as noted
DOUGLAS R. ROWE P.S. 2202

BERNARD RICHARDS ET AL LEASE
JOHN WAYNE RICHARDS
D.B. 254 PG. 75
T.M. 8 PAR. 7
209 AC. ±

MICHAEL P. HEASTER ET AL LEASE
MARK GRIMMEL ET AL
W.B. 35 PG. 555
T.M. 13 PAR. 19
75.75 AC. ±

DENNIS HADDOX ET AL LEASE
CHRISTOPHER A. SMITH
D.B. 246 PG. 148
T.M. 13 PAR. 18
41.75 AC. ±

LANDING POINT
N: 254819
E: 1596447

06/12/2015

47 - 085 - 10206
STATE COUNTY PERMIT NAME

PERMIT