

LATITUDE 39°32'30"

10,756'

LATITUDE 39°35'00"

2,848' TO BOTTOM HOLE

Antero Resources Corporation Well No. Grapevine Unit 2H

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 4,374,194m E: 514,646m BOTTOM HOLE INFORMATION: N: 4,377,573m E: 513,467m

NOTES: WELL 2H TOP HOLE INFORMATION: N: 373,254ft E: 1,624,856ft LAT: 39°31'01.84" LON: 80°49'47.25" BOTTOM HOLE INFORMATION: N: 384,408ft E: 1,621,175ft LAT: 39°32'51.54" LON: 80°50'36.36" 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) 27 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 14,350,286ft E: 1,688,419ft POINT OF ENTRY INFORMATION: N: 14,350,388ft E: 1,688,304ft BOTTOM HOLE INFORMATION: N: 14,361,373ft E: 1,684,553ft

Table with 3 columns: LINE, BEARING, DISTANCE. Lists lines L1 through L12 with their respective bearings and distances.

PAD LAYOUT

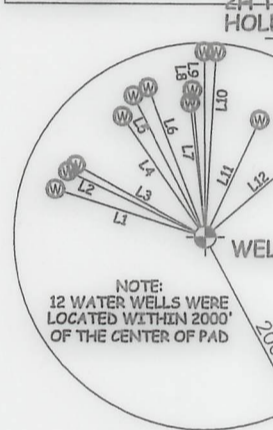
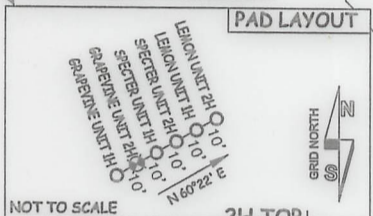


Table listing adjacent landowners and their acreage, labeled A1 through Z. Includes names like Lee Roy Howell et ux, Robert D. Miller et ux, etc.

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.

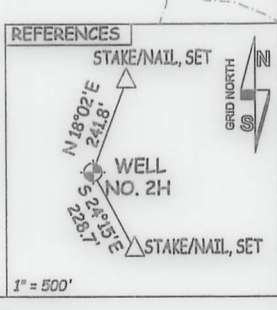
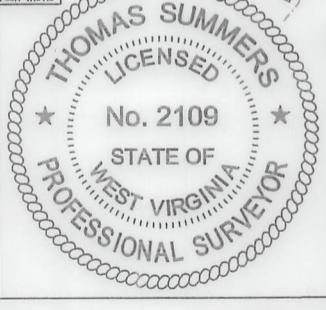


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLOW LAND SURVEYING PLLC, 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



JOB # 20-006WA, DRAWING # GRAPEVINE2HR2, SCALE 1" = 2000', 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 +/-, Adjoining Surface Tracts +/-, Found monument, as noted. THOMAS SUMMERS P.S. 2109, DATE 11/03/20, OPERATOR'S WELL # GRAPEVINE UNIT #2H



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 095 02708 MODI (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION ORIGINAL - 1,070' PROPOSED - 1,042' WATERSHED OUTLET MIDDLE ISLAND CREEK QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER SURFACE OWNER KAYLA LEEK ACREAGE 69.06 ACRES +/- LEASE ACREAGE 69.06 AC. +/-; 61.73 AC. +/-; RICHARD J. FERRELL, ET UX; LOUELLA HOSKINS ET UX; ROBERT D. MILLER ET UX; MELISSA DAWN PILANT; 15.08 AC. +/-; 1.13 AC. +/-; 2.71 AC. +/-; 51.49 AC. +/-; PATHFINDER RESOURCES II, LLC; DARWIN MARTIN ET UX; RIDGETOP CAPITAL II, LP; JOHN E. KEPLER; JERRY R. BROWN; 22.5 AC. +/-; 60.66 AC. +/-; 70 AC. +/-; 38 AC. +/-; 5 AC. +/-; CARR FAMILY TRUST; WACO OIL & GAS COMPANY, INC.; BRC APPALACHIAN MINERALS I LLC; HERITAGE RESOURCES-MARCELLUS MINERALS S, LLC 64.81 AC. +/-; 50.25 AC. +/-; 55 AC. +/-; 61.52 AC. +/- PROPOSED WORK: DRILL CONVERT DRILL DEEPER X REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 19,300' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

12,998' TO BOTTOM HOLE

LONGITUDE 80°47'30"

LONGITUDE 80°50'00"

COUNTY NAME

PERMIT

LATITUDE 39°32'30"

10,756'

LATITUDE 39°35'00"

2,848' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Grapevine Unit 2H

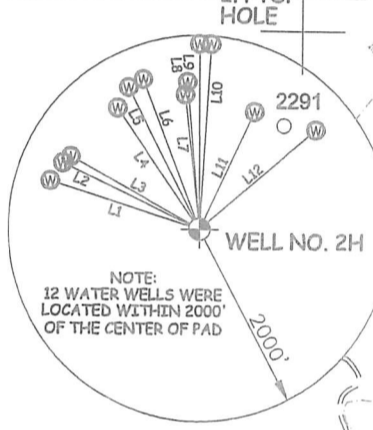
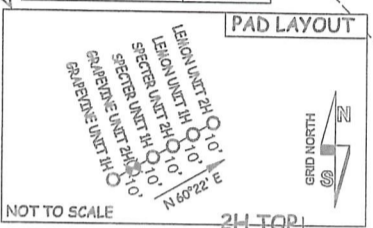
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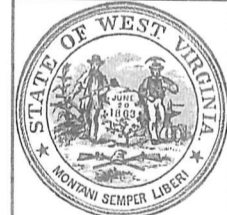
LINE	BEARING	DISTANCE
L1	N 72°40' W	1638.0'
L2	N 64°54' W	1582.1'
L3	N 61°22' W	1537.8'
L4	N 34°54' W	1512.5'
L5	N 27°19' W	1636.7'
L6	N 21°11' W	1650.6'
L7	N 06°24' W	1392.9'
L8	N 05°00' W	1521.3'
L9	N 00°15' W	1911.8'
L10	N 03°26' E	1913.5'
L11	N 25°08' E	1338.5'
L12	N 49°41' E	1592.6'

WELL 2H BOTTOM HOLE



A1	LEE ROY HOWELL ET UX	1.83 ACRES±
B1	ROBERT D. MILLER ET UX	2.71 ACRES±
D1	LOUELLA HOSKINS ET UX	4.67 ACRES±
E1	MARY C. GRIMES	1.08 ACRES±
F1	ROBERT R. JONES	4.38 ACRES±
G1	CHARLES R. FERRELL ET UX	0.5 ACRES±
H1	LOUELLA HOSKINS ET UX	4.67 ACRES±
I1	CHARLES R. FERRELL ET UX	2.0 ACRES±
K1	ROBERT PITTMAN ET UX	2.4 ACRES±
L1	LOUELLA HOSKINS ET UX	1.13 ACRES±
B	JERRY R. BROWN	5.0 ACRES±
C	ROSE ENTERPRISES, LLC	19.84 ACRES±
D	CHARLES RAY JOBES	470.5 ACRES±
F	HERITAGE RESOURCES-MARCELLUS MINERALS, LLC	61.52 ACRES±
G	BRC APPALACHIAN MINERALS I LLC	55 ACRES±
H	WACO OIL & GAS COMPANY, INC.	50.25 ACRES±
I	FISHER OIL COMPANY	38 ACRES±
J	HELEN M. KARCINSKI ET AL	50.5 ACRES±
K	CARR FAMILY TRUST	64.81 ACRES±
L	FISHER OIL COMPANY	45.87 ACRES±
M	HELEN M. KARCINSKI ET AL	59.9 ACRES±
N	RIDGETOP CAPITAL II, LP	70 ACRES±
O	JOHN E. KEPLER	38 ACRES±
P	DARWIN MARTIN ET UX	60.66 ACRES±
Q	RALPH D. THACKER	64.29 ACRES±
R	PATHFINDER RESOURCES II, LLC	22.5 ACRES±
S	GARY A. SOLE	92.5 ACRES±
T	MELISSA DAWN PILANT	51.49 ACRES±
U	REITA JANE HALL	21.39 ACRES±
V	RICHARD J. FERRELL, ET UX	15.06 ACRES±
W	DAVID LEEK	34.38 ACRES±
X	RIDGETOP CAPITAL LP	69.06 ACRES±
Y	BRC APPALACHIAN MINERALS I LLC	61.73 ACRES±
Z	BRC APPALACHIAN MINERALS I LLC	55.56 ACRES±

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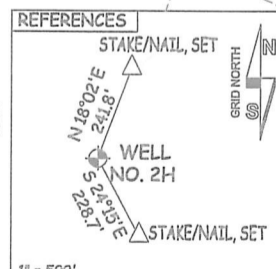
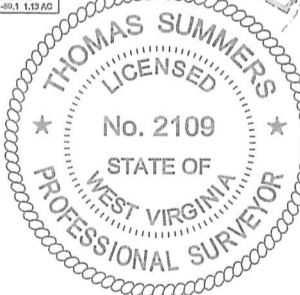
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

A1-LEE ROY HOWELL D.B. 170408 TH 11-41 1.87 AC
B1-ROBERT D. MILLER D.B. 200401 TH 11-42 2.71 AC
D1-LEE ROY HOWELL D.B. 200401 TH 11-41 4.67 AC
E1-ROBERT D. MILLER D.B. 200401 TH 11-42 2.71 AC
F1-ROBERT R. JONES D.B. 200401 TH 11-43 4.38 AC
G1-CHARLES R. FERRELL D.B. 210408 TH 11-41 0.5 AC
H1-LOUELLA HOSKINS D.B. 200401 TH 11-42 4.67 AC
I1-CHARLES R. FERRELL D.B. 200401 TH 11-43 2.0 AC
K1-ROBERT PITTMAN D.B. 200401 TH 11-43 2.4 AC
L1-LOUELLA HOSKINS D.B. 200401 TH 11-41 1.13 AC
B-JERRY R. BROWN D.B. 200401 TH 11-43 5.0 AC
C-ROSE ENTERPRISES D.B. 200401 TH 11-43 19.84 AC
D-CHARLES RAY JOBES D.B. 200401 TH 11-43 470.5 AC
F-HERITAGE RESOURCES-MARCELLUS MINERALS D.B. 200401 TH 11-43 61.52 AC
G-BRC APPALACHIAN MINERALS I D.B. 200401 TH 11-43 55 AC
H-WACO OIL & GAS COMPANY D.B. 200401 TH 11-43 50.25 AC
I-FISHER OIL COMPANY D.B. 200401 TH 11-43 38 AC
J-HELEN M. KARCINSKI D.B. 200401 TH 11-43 50.5 AC
K-CARR FAMILY TRUST D.B. 200401 TH 11-43 64.81 AC
L-FISHER OIL COMPANY D.B. 200401 TH 11-43 45.87 AC
M-HELEN M. KARCINSKI D.B. 200401 TH 11-43 59.9 AC
N-RIDGETOP CAPITAL II D.B. 200401 TH 11-43 70 AC
O-JOHN E. KEPLER D.B. 200401 TH 11-43 38 AC
P-DARWIN MARTIN D.B. 200401 TH 11-43 60.66 AC
Q-RALPH D. THACKER D.B. 200401 TH 11-43 64.29 AC
R-PATHFINDER RESOURCES II D.B. 200401 TH 11-43 22.5 AC
S-GARY A. SOLE D.B. 200401 TH 11-43 92.5 AC
T-MELISSA DAWN PILANT D.B. 200401 TH 11-43 51.49 AC
U-REITA JANE HALL D.B. 200401 TH 11-43 21.39 AC
V-RICHARD J. FERRELL D.B. 200401 TH 11-43 15.06 AC
W-DAVID LEEK D.B. 200401 TH 11-43 34.38 AC
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NOTE
NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) 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.

JOB # 20-006WA
DRAWING # GRAPEVINE2HR2
SCALE 1" = 2000'
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 +/-
- - - Adjoining Surface Tracts +/-
⊕ Found monument, as noted
THOMAS SUMMERS P.S. 2109
DATE 11/03/20
OPERATOR'S WELL# GRAPEVINE UNIT #2H



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 095 - 02708 MOD I
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT
LOCATION: ELEVATION ORIGINAL - 1,070' PROPOSED - 1,042' WATERSHED OUTLET MIDDLE ISLAND CREEK
QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER
SURFACE OWNER KAYLA LEEK ACREAGE 69.06 ACRES +/-
OIL & GAS ROYALTY OWNER RIDGETOP CAPITAL LP; BRC APPALACHIAN I, LLC; LEASE ACREAGE 69.06 AC.±; 61.73 AC.±;
RICHARD J. FERRELL, ET UX; LOUELLA HOSKINS ET UX; ROBERT D. MILLER ET UX; MELISSA DAWN PILANT; 15.06 AC.±; 1.13 AC.±; 2.71 AC.±; 51.49 AC.±;
PATHFINDER RESOURCES II, LLC; DARWIN MARTIN ET UX; RIDGETOP CAPITAL II, LP; JOHN E. KEPLER; JERRY R. BROWN; 22.5 AC.±; 60.66 AC.±; 70 AC.±; 38 AC.±; 5 AC.±;
CARR FAMILY TRUST; WACO OIL & GAS COMPANY, INC; BRC APPALACHIAN MINERALS I LLC; HERITAGE RESOURCES-MARCELLUS MINERALS, LLC 64.81 AC.±; 50.25 AC.±; 55 AC.±; 61.52 AC.±
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER X REDRILL ___ FRACTURE OR STIMULATE X
PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL
(SPECIFY) MOD-BHL PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 19,300' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

12,998' TO BOTTOM HOLE
8,919'
LONGITUDE 80°47'30"
LONGITUDE 80°50'00"

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10,756

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-2,848' TO BOTTOM HOLE

Arturo Resources Corporation
Well No. Grapevine Unit 2H

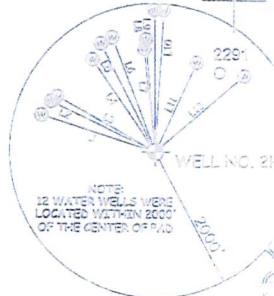
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
N: 4,374,244m E: 518,843m
BOTTOM HOLE INFORMATION:
N: 4,377,573m E: 518,407m

NOTES:
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LAT: 39°32'01.54" LONG: 80°45'47.22"
BOTTOM HOLE INFORMATION:
N: 384,408ft E: 1,021,179ft
LAT: 39°32'51.54" LONG: 80°30'31.53"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEMINI SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE THE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 27 TOP HOLE INFORMATION:
N: 4,380,226ft E: 1,028,197ft
POINT OF ENTRY INFORMATION:
N: 4,380,226ft E: 1,028,204ft
BOTTOM HOLE INFORMATION:
N: 4,381,770ft E: 1,028,168ft

WV NORTH ZONE GRID NORTH

LINE	BEARING	DISTANCE
L1	N 7°40' W	1638.0'
L2	N 6°54' W	1582.1'
L3	N 5°22' W	1537.8'
L4	N 3°54' W	1512.5'
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L12	N 4°41' E	1562.8'



- A1 LEE ROY HOWELL ET UX 1.25 ACRES
- B1 ROBERT D. MILLER ET UX 2.74 ACRES
- C1 LOUELLA HOSKINS ET UX 4.07 ACRES
- E1 MARY C. GRIMES 1.07 ACRES
- F1 ROBERT R. JONES 1.20 ACRES
- G1 CHARLES R. FERRELL ET UX 0.5 ACRES
- H1 LOUELLA HOSKINS ET UX 4.07 ACRES
- I1 CHARLES R. FERRELL ET UX 2.0 ACRES
- J1 ROBERT PITTMAN ET UX 2.4 ACRES
- K1 LOUELLA HOSKINS ET UX 1.15 ACRES
- L1 JERRY R. BROWN 5.0 ACRES
- M1 ROSS ENTERPRISES, LLC 10.24 ACRES
- N1 CHARLES RAY JONES 47.05 ACRES
- O1 ARTURO RESOURCES CORPORATION 61.32 ACRES
- P1 BRC APPALACHIAN MINERALS I LLC 55 ACRES
- Q1 WAGO OIL & GAS COMPANY, INC. 59.25 ACRES
- R1 FISHER OIL COMPANY 28 ACRES
- S1 HELEN M. MARCINSKI ET AL. 59.3 ACRES
- T1 CARR FAMILY TRUST 31.51 ACRES
- U1 FISHER OIL COMPANY 4.77 ACRES
- V1 HELEN M. MARCINSKI ET AL. 3.07 ACRES
- W1 RIDGETOP CAPITAL II, LP 71 ACRES
- X1 JOHNIE KEPLER 11 ACRES
- Y1 DARWIN MARTIN ET UX 10.15 ACRES
- Z1 RALPH D. THACKER 34.10 ACRES
- AA1 PATHFINDER RESOURCES II, LLC 22.4 ACRES
- AB1 GARY A. SOLE 25.4 ACRES
- AC1 MELISSA DAWN PILANT 31.05 ACRES
- AD1 REITA JANE HALL 21.25 ACRES
- AE1 RICHARD J. FERRELL ET UX 15.05 ACRES
- AF1 DAVID LEBY 30.10 ACRES
- AG1 RIDGETOP CAPITAL II, LP 30.10 ACRES
- AH1 BRC APPALACHIAN MINERALS I LLC 34.75 ACRES
- AI1 BRC APPALACHIAN MINERALS I LLC 32.25 ACRES

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--- 5' Year Owner Boundary Lines +/-
--- Adjoining Surface Tracts +/-
⊙ Found monument, no record
THOMAS SUMMERS P.S. 2109



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 1/03/20
OPERATOR'S WELL # GRAPEVINE UNIT 2H



WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ API WELL # ___
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW STATE COUNTY PERMIT
 LOCATION: ELEVATION ORIGINAL - 1,070' PROPOSED - 1,042' WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE PORTER FALLS 7.5 DISTRICT ELLSWORTH COUNTY TYLER
 SURFACE OWNER KAYLA LEEK ACREAGE 88.05 ACRES +/-
 OIL & GAS ROYALTY OWNER RIDGETOP CAPITAL II, BRC APPALACHIAN I, LLC LEASE ACREAGE 88.05 AC +/- 81.73 AC +/-
 RICHARD J. FERRELL ET UX; LOUELLA HOSKINS ET UX; ROBERT D. MILLER ET UX; MELISSA DAWN PILANT 15.05 AC +/- 13 AC +/- 2.71 AC +/- 51.49 AC +/-
 PATHFINDER RESOURCES II, LLC; DARWIN MARTIN ET UX; RIDGETOP CAPITAL II, LP; JOHNIE KEPLER; JERRY R. BROWN 22.5 AC +/- 10.65 AC +/- 7.0 AC +/- 35 AC +/- 5 AC +/-
 CARR FAMILY TRUST; WAGO OIL & GAS COMPANY, INC.; BRC APPALACHIAN MINERALS I, LLC; ARTURO RESOURCES CORPORATION; MIBELLUS MINERALS, LLC 24.21 AC +/- 30.25 AC +/- 55 AC +/- 61.32 AC +/-
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER REDRILL ___ FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL ___
 (SPECIFY) MOD-BHL ___ PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 13,300' MD
 WELL OPERATOR ARTURO RESOURCES CORP DESIGNATED AGENT DIANNA STAMPPER - OCT CORPORATION SYSTEM
 ADDRESS 1815 WYMKOP ST ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-8 DENVER, CO 80202 CHARLESTON, WV 26318

12,998' TO BOTTOM HOLE
8,919'
30,473.30'
LONGITUDE 80°50'00"

RECEIVED
Office of Oil and Gas
NOV 23 2020
WV Department of Environmental Protection

JCB
4/12/2020

PERMIT MODIFICATION API # 47-095-02708



Grapevine Unit 2H

RECEIVED
Office of Oil and Gas

NOV 23 2020

WV Department of
Environmental Protection



Antero Resources Corporation

Grapevine Unit 2H - AOR



REMARKS
No Wells of Interest

August 13, 2020

JCB
11/23/2020