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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

MONDAY JANUARY 10, 2022  
PERMIT MODIFICATION APPROVAL  
New Drill / Modification Lateral Extension

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET  
DENVER, CO 80202

Re: Permit Modification Approval for MAXSON UNIT 2H  
47-085-10413

Lateral Extension

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A blue ink signature of James A. Martin, Chief. The signature is stylized and written in cursive. Below the signature, the name and title are printed in a standard font.

James A. Martin  
Chief

Operator's Well Number: MAXSON UNIT 2H  
Farm Name: ANTERO RESOURCES CORPORATION  
U.S. WELL NUMBER: 47-085-10413  
New Drill Modification Lateral Extension  
Date Modification Issued: 01/10/2022

Promoting a healthy environment.

01/21/2022

CK# 4003488  
8500002  
12/21/21

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: Antero Resources Corporation 494507062 085-Ritchie Union Pullman/Oxford7  
Operator ID County District Quadrangle

2) Operator's Well Number: Maxson Unit 2H Well Pad Name: Weekley West Pad

3) Farm Name/Surface Owner: Antero Resources Corporation Public Road Access: Co Rd 22/3

4) Elevation, current ground: 1,138' Elevation, proposed post-construction: 1,125'

5) Well Type (a) Gas  Oil  Underground Storage   
Other   
(b) If Gas Shallow  Deep   
Horizontal

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Office of Oil and Gas  
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WV Department of  
Environmental Protection

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale, 7,000 TVD, Anticipated Thickness 55', Associated Pressure 2,850#

JCB  
11/1/2022

8) Proposed Total Vertical Depth: 7,000'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22,500'

11) Proposed Horizontal Leg Length: 13651'

12) Approximate Fresh Water Strata Depths: 258', 330', 478'

13) Method to Determine Fresh Water Depths: Reference wells 08508569, 0850858, 08508582 Depths have been adjusted according to surface elevations

14) Approximate Saltwater Depths: 1,015' (reference well 08503139), 1,976' (reference well 08507618)

15) Approximate Coal Seam Depths: 734' (reference well 08507618), 1,495' (reference well 08503139)

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8	New	J/K-55	54.5#	528	528	CTS, 550 Cu. Ft.
Coal	9-5/8	New	J/K-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2	New	PY-110	23#	22,500	22,500	CTS, 4742 Cu. Ft.
Tubing	2-3/8	New	N-80	4.7#			
Liners							

*903  
1/6/2022*

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8	17-1/2"	0.380"	2730	1000	Class A	~1.18
Coal	9-5/8	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2	8-3/8" & 8-1/2"	0.415"	12,630	9300		
Tubing	2-3/8	4.778"	0.190"	11,200		Lead H/POZ & Tail H	H/POZ-1.44 & H-1.8
Liners							

**PACKERS**

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs  
Anticipated Max Rate - 80 bpm

*JCB*  
*1/6/2022*

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 58.63

22) Area to be disturbed for well pad only, less access road (acres): 8.23

23) Describe centralizer placement for each casing string:

Conductor: No centralizers.  
Surface Casing: One centralizer 10' above the float shoe and one every 4th joint spaced up the hole to surface.  
Intermediate Casing: One centralizer above float joint, one centralizer above float collar, and one every 4th collar to surface.  
Production Casing: One centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A cement.  
Surface Casing: Class A cement with 2-3% calcium chloride and 1/4 lb of flake.  
Intermediate Casing: Class A cement with 1/4 lb of flake, 5 gallons of clay treat.  
Production Casing Lead Cement: 50/50 Class H/POZ + 1.5% salt + 1% C-45 +0.5% C-16a + 0.2% C-12+0.45% C-20 + 0.05% C-51.  
Production Casing Tail Cement: Class H + 45 PPS Calcium Carbonate + 1.0% Flake + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20.

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.  
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.  
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.  
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

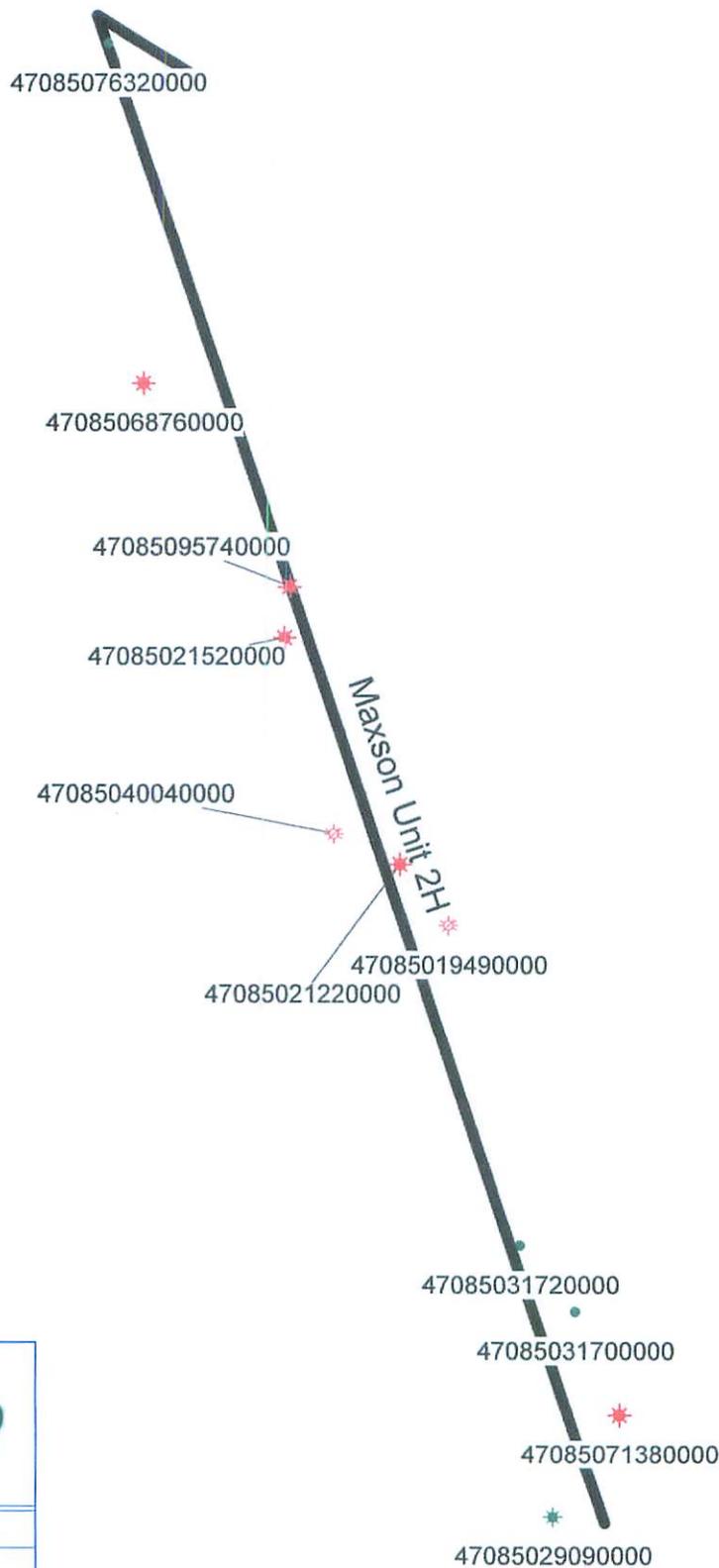
\*Note: Attach additional sheets as needed.



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DEC 27 2021

WV Department of  
Environmental Protection



Antero Resources Corporation

Maxson Unit 2H - AOR



- WELL SYMBOLS
- Gas Well
  - Oil & Gas Well
  - Oil Well
  - Plugged Gas Well

December 20, 2021

01/21/2022

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085071380000	MAXSON ELVA HEIRS	A-1364	AMERICAN ENR HOLDING	ALAMCO INC	5,226	3196 - 5189	Lower Huron, Alexander, Angola	Warren, Speechly, Balltown, Riley, Benson
47085019490000	GLENN MAXSON	1	MOSSOR OIL & GAS	MOSSOR OIL & GAS	1,820		Big Injun	Alexander, Gordon, Berea
47085021220000	MARY BRITTON	2	HAUGHT ENERGY CORP	MILL LOT OIL & GAS	1,650		Maxton, Weir	Alexander, Gordon, Berea
47085021520000	M B ZINN	2	ZICKEFOOSE W F & R L	SCANDOLA FRED	1,843		Big Injun	Alexander, Gordon, Berea
47085029090000	JENNIE MAXSON HEIRS	1	DEEM J F O & G LLC	DEEM J FRANK	2,045		Little Lime	Alexander, Gordon, Berea
47085031700000	SHEETS H ETAL	1	DEEM J F O & G LLC	RAINBOW VALLEY	2,015		Big Injun	Alexander, Gordon, Berea
47085031720000	H SHEETS ET AL	2	DEEM J F O & G LLC	RAINBOW VALLEY	2,075	2067 - 2067	Big Injun	Gordon, Berea
47085040040000	M B ZINN	4943	EQUITABLE GAS CO	EQUITABLE GAS CO	1,941		Big Injun	Alexander, Gordon, Berea
47085068760000	PIERCE FLORENCE R ET	D1	BOWYER DAVID	FOX DRILLING	5,085	3218 - 5033	Lower Huron, Angola	Alexander, Gordon, Berea
47085095740000	SHEETS DONALD	2	KEY OIL CO	KEY OIL CO	5,280	3357 - 5158	Alexander	Berea
47085076320000	DOTSON T D	3	RITCHIE PET CORP	HOPE CONSTR & REFG	2,062	2017 - 2023	Big Injun	Alexander, Gordon, Berea

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Environmental Protection

LATITUDE 39°12'30" 109'

LATITUDE 39°10'00"

8,352' TO BOTTOM HOLE

Antero Resources Corporation  
Well No. Maxson Unit 2H

NOTES:

WELL 2H TOP HOLE INFORMATION:  
N: 246,901ft E: 1,610,058ft  
LAT: 39°10'10.90" LON: 80°52'31.39"

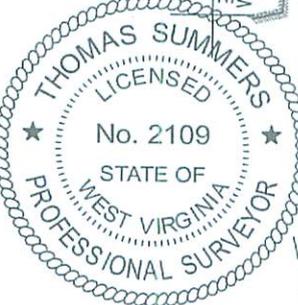
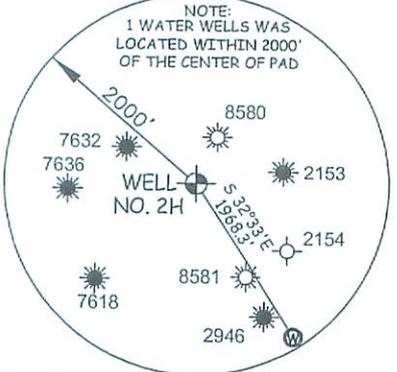
BOTTOM HOLE INFORMATION:  
N: 234,293ft E: 1,613,441ft  
LAT: 39°08'06.79" LON: 80°51'46.00"

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: 4,335,625m E: 510,780m  
BOTTOM HOLE INFORMATION:  
N: 4,331,801m E: 511,875m

(NAD) 27 (UTM) ZONE 17 COORDS:  
WELL 2H TOP HOLE INFORMATION:  
N: 14,223,748ft E: 1,675,735ft  
POINT OF ENTRY INFORMATION:  
N: 14,224,121ft E: 1,674,930ft  
BOTTOM HOLE INFORMATION:  
N: 14,211,202ft E: 1,679,327ft

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.



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 # 15-059WA  
DRAWING # MAXSON2HR3  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

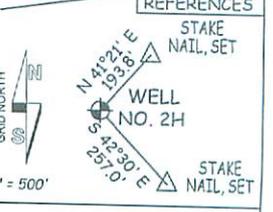
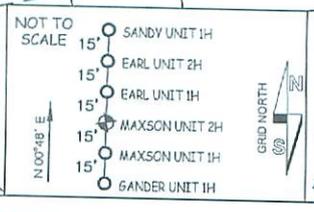
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
DIVISION OF OIL AND GAS

LEGEND

- Surface Owner Boundary Lines +/-
- Adjoining Surface Tracts +/-
- Found monument, as noted

THOMAS SUMMERS P.S. 2109

DATE 12/21/21  
OPERATOR'S WELL# MAXSON UNIT #2H



Union District - Ritchie County	
14-19	David W. Weekley
20-3	David W. Weekley
20-4	David W. Weekley
20-7	David W. Weekley
20-8	David W. Weekley
20-9	Albin Gesek
20-10	David W. Weekley
20-11.1	Antero Resources Corp.
20-11.4	Bryan Ireland
20-12	Albin Gesek
20-12.1	Albin Gesek
20-13	David Pierce
20-13.1	Dallas Smith
20-17	Christopher Gress
20-18	Richard Pierce
20-19	Charles Adams
20-20	Mark Spiker
20-21	Charles Adams
21-3	Dallas Smith
21-5	James Beek
26-6	Mark Spiker
26-6.1	Earl Flesher
26-7	Donald Sheets
26-8	Mark Spiker
26-9	Donald Sheets
26-14	Mark Spiker
26-14.1	Mark Spiker
26-15	Mark Spiker
26-16	South Fork Sportsmen Assn, Inc.
26-16.1	South Fork Sportsmen Assn, Inc.
26-17	South Fork Sportsmen Assn, Inc.
26-26	Marvin Brissey
26-27	South Fork Sportsmen Assn, Inc.
26-30	South Fork Sportsmen Assn, Inc.
27-1	Linda Jennings
27-1.1	Linda Jennings
27-2	Randall Hess
27-3	Steven Lusk
27-3.4	Kent Grotjan
27-3.5	Joshua Friedman
27-3.6	Lillian Martin
27-11	Miles Ball
27-15	Randall Pierce
27-15.1	Randall Pierce
27-16	Clarence Bush
27-20	South Fork Sportsmen Assn, Inc.
27-21	Maxson Land LLC
27-22	Clarence Bush
32-1	Stanley Echard
32-1.3	Stanley Echard
32-2	Harold Pierce

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL

(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1,138' - ORIGINAL 1,125' - PROPOSED \_\_\_\_\_ WATERSHED SOUTH FORK HUGHES RIVER

QUADRANGLE TH - PULLMAN 7.5' BH - OXFORD 7.5' DISTRICT UNION COUNTY PERMIT

SURFACE OWNER DAVID W. & DAVID MARTIN WEEKLEY ACREAGE 39.87 ACRES +/-

OIL & GAS ROYALTY OWNER I.D. DOTSON ET UX; JOHN M. DEBRULAR ET UX; BRADFORD SPIKER ET UX; LEASE ACREAGE 39.87 AC.±; 154AC.±; 52 AC.±;

SUSAN V. DENNAN REVOCABLE TRUST; DONALD J. SHEETS; MICHAEL I. SPIKER; MARY J. BRITTON ET AL.; GLEN MAXSON; 49.6 AC.±; 89 AC.±; 60.33 AC.±; 67 AC.±; 142.62 AC.±;

CARLA FOSTER; HARRY H. SHEETS ET AL.; ENOCH DOW MAXSON; ELVA MAXSON ET UX 115.5 AC.±; 75 AC.±; 65 AC.±; 66 AC.±;

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  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 22,500' 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

11,454' TO BOTTOM HOLE

14,073'

LONGITUDE 80°50'00"

LONGITUDE 80°52'30"

LATITUDE 39°12'30" 109'

LATITUDE 39°10'00"

8,352' TO BOTTOM HOLE

Antero Resources Corporation Well No. Maxson Unit 2H

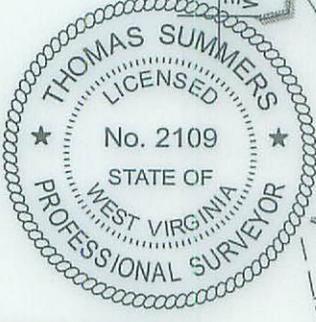
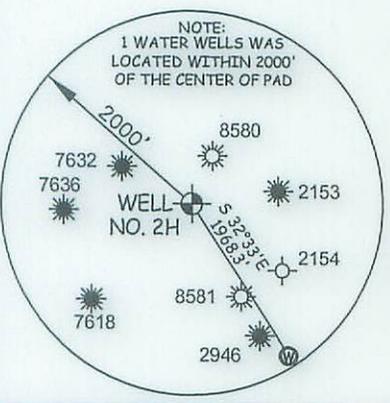
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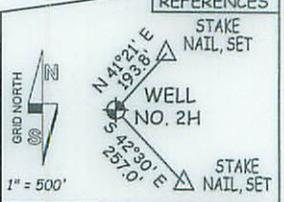
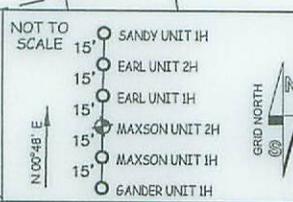
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 15-059WA  
 DRAWING # MAXSON2HR3  
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 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

**LEGEND**  
 - - - Surface Owner Boundary Lines +/-  
 - - - Adjoining Surface Tracts +/-  
 ⊕ Found monument, as noted  
 THOMAS SUMMERS P.S. 2109

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

DATE 12/21/21  
 OPERATOR'S WELL# MAXSON UNIT #2H



WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ 47 - 085 - 10413  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X STATE COUNTY PERMIT  
 LOCATION: ELEVATION 1,138'-ORIGINAL 1,125'-PROPOSED \_\_\_ WATERSHED SOUTH FORK HUGHES RIVER  
 QUADRANGLE TH - PULLMAN 7.5' BH - OXFORD 7.5' DISTRICT UNION COUNTY RITCHIE  
 SURFACE OWNER DAVID W. & DAVID MARTIN WEEKLEY ACREAGE 39.87 ACRES +/-  
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 SUSAN V. DENNAN REVOCABLE TRUST; DONALD J. SHEETS; MICHAEL I. SPIKER; MARY J. BRITTON ET AL; GLEN MAXSON; 49.6 AC.±: 89 AC.±: 60.33 AC.±: 67 AC.±: 142.62 AC.±:  
 CARLA FOSTER; HARRY H. SHEETS ET AL; ENOCH DOW MAXSON; ELVA MAXSON ET UX 115.5 AC.±: 75 AC.±: 65 AC.±: 66 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 22,500' 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

01/21/2022

COUNTY NAME

PERMIT

11,454' TO BOTTOM HOLE

LONGITUDE 80°50'00"

LONGITUDE 80°52'30"

STAKE NAIL, SET

COUNTY NAME

PERMIT

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b><u>T.D. Dotson, et ux Lease</u></b>			
T.D. Dotson, et ux	J.T. Carter	1/8	0011/0297
J.T. Carter	The Carter Oil Company	Assignment	0011/0528
The Carter Oil Company	Hope Construction and Refining Company	Assignment	0052/0194
Hope Construction and Refining Company	Hope Natural Gas Company	Merger	0111/0520
Hope Natural Gas Company	Consolidation Gas Supply Corporation	Conveyance	0151/0436
Consolidation Gas Supply Corporation	Consolidation Gas Transmission Corporation	Assignment	0169/0756
Consolidation Gas Transmission Corporation	CNG Development Company	Assignment	0176/0601
CNG Development Company	CNG Producing Company	Name Change	WVSOS
CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change	0058/0366
Dominion Exploration & Production, Inc.	Dominion Transmission, Inc.	Assignment	0251/0621
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC	Assignment	0251/0648
CONSOL Energy Holdings, LLC	Consol Gas Company	Merger	0006/0576
Consol Gas Company	CNX Gas Company, LLC	Merger	0006/0634
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	0269/0429
<b><u>John M. Debrular et al Lease</u></b>			
John M. Debrular and Susan J. Debrular his wife	W.W. Water	1/8	0011/0321
W.W. Water	M.G. Zinn	Assignment	0012/0370
M.G. Zinn	The Carter Oil Company	Assignment	0012/0373
The Carter Oil Company	Hope Construction and Refining Company	Assignment	0052/0194
Hope Construction and Refining Company	Hope Natural Gas Company	Assignment	0111/0520
Hope Natural Gas Company	Consolidation Gas Supply Corporation	Conveyance	0151/0436
Consolidation Gas Supply Corporation	Consolidation Gas Transmission Corporation	Conveyance	0169/0756
Consolidation Gas Transmission Corporation	CNG Development Company	Assignment	0176/0601
CNG Development Company	CNG Producing Company	Assignment	0058/0366
CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change	0058/0366
Dominion Exploration & Production, Inc.	Dominion Transmission, Inc.	Assignment	0251/0621
Dominion Transmission, Inc.	Consol Energy Holdings, LLC XVI	Assignment	0251/0648
Consol Energy Holdings, LLC XVI	Consol Gas Company	Merger	0006/0576
Consol Gas Company	CNX Gas Company, LLC	Name Change	0006/0634
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	0269/0429
<b><u>Bradford Spiker et ux Lease</u></b>			
Bradford Spiker et ux	Alton Skinner	1/8	132/392
Alton Skinner	Alton L Skinner II	Assignment	216/391
Alton L Skinner II	DC Petroleum Inc	Assignment	247/245
DC Petroleum Inc	Antero Resources Appalachian Corporation	Assignment	254/789
Antero Resources Appalachian Corporation	Antero Resources Corporation	Merger	15/705
<b><u>Susan V Drennan Revocable Trust Lease</u></b>			
Susan V Drennan Revocable Trust	Antero Resources Corporation	1/8+	329/71

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b><u>Donald J Sheets Lease</u></b>			
Donald J Sheets	Key Oil Company	1/8	244/246
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	253/747
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	15/705
<b><u>Michael I Spiker et al Lease</u></b>			
Michael I Spiker et al	Key Oil Company	1/8	240/222
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	258/509
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	15/705
<b><u>Mary J Britton et al Lease</u></b>			
Mary J Britton et al	W.H Mosser	1/8	88/291
W.H Mosser	BDL a Partnership	Will	16/154
BDL a Partnership	Term Energy Corporation	Assignment	256/391
Term Energy Corporation	Kiedash & Summers Enterprises LLC	Assignment	263/827
Kiedash & Summers Enterprises LLC	Antero Resources Appalachian Corporation	Assignment	263/1060
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	15/705
<b><u>Glen Maxson Lease</u></b>			
Glen Maxson	Appalachian Well Services & Minerals Inc	1/8	178/581
Appalachian Well Services & Minerals Inc	Roger Gragg	Assignment	284/355
Roger Gragg	Antero Resources Corporations	Conveyed	284/532
<b><u>Elizabeth E Britton Lease</u></b>			
Elizabeth E Britton	Pittsburgh & West Virginia Gas Co	1/8	51/501
Pittsburgh & West Virginia Gas Co	Equitable Gas Company	Assignment	126/473
Equitable Has Company	Equitrans Inc	Assignment	201/253
Equitrans Inc	Equitable Production Eastern State Inc	Assignment	234/830
Equitable Production Eastern State Inc	Equitable Production Company	Assignment	WVSOS
Equitable Production Company	EQT Production Company	Assignment	6/443
EQT Production Company	Antero Resources Corporation	Assignment	282/175
<b><u>Harry H Sheets et al Lease</u></b>			
Harry H Sheets et al	Willard E Farrell	1/8	86/115
Willard E Farrell	Collen F Selsor et al	Will	42/15
Collen F Selsor et al	J Frank Deem	Assignment	205/192
J Frank Deem	CHK Louisiana LLC	Assignment	247/624
CHK Louisiana LLC	Chesapeake Appalachia LLC	Assignment	247/933
Chesapeake Appalachia LLC	SWN Production Company	Assignment	280/707
SWN Production Company	Antero Exchange Properties	Assignment	301/114
Antero Exchange Properties	Antero Resources Corporation	Merger	14/598

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<b><u>Elva Maxson et al Lease</u></b>			
Elva Maxson et al	Hope Natural Gas Company	1/8	74/385
Hope Natural Gas Company	Allegheny Land and Mineral	Assignment	84/597
Allegheny Land and Mineral	Plymouth Oil Company	Assignment	86/39
Plymouth Oil Company	Allegheny Land and Mineral	Assignment	87/183
Allegheny Land and Mineral	Alamo Inc	Name Change	4/452
Alamo Inc	Columbia Natural Resources LLC	Merger	269/668
Columbia Natural Resources LLC	Chesapeake Appalachia LLC	Merger	8/296
Chesapeake Appalachia LLC	SWN Production Company	Assignment	280/707
SWN Production Company LLC	Antero Exchange Properties LLC	Assignment	301/114
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	14/598
<b><u>Enoch Dow Maxson Lease</u></b>			
Enoch Dow Macson	J.F Deem	1/8	100/371
J.F Deem	J.F Deem Oil and Gas LLC	Merger	228/230
J.F Deem Oil and Gas LLC	Chesapeake Appalachia LLC	Assignment	247/891
Chesapeake Appalachia LLC	SWN Production Company	Assignment	280/707
SWN Production Company LLC	Antero Exchange Properties LLC	Assignment	301/114
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	14/598

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Lease Name or  
Enoch Dow Maxson Lease

Enoch Dow Maxson	J.F Deem	1/8	100/371
J.F Deem	J.F Deem Oil and Gas LLC	Merger	228/230
J.F Deem Oil and Gas LLC	Chesapeake Appalachia LLC	Assignment	247/891
Chesapeake Appalachia LLC	SWN Production Company LLC	Assignment	80/707
SWN Production Company LLC	Antero Exchange Properties LLC	Assignment	301/114
Antero Exchange Properties LLC	Antero Resources Corporation	Assignment	14/598

\*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation  
 By: Tim Rady *Tim Rady*  
 Its: VP of Land



Stansberry, Wade A &lt;wade.a.stansberry@wv.gov&gt;

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**Expedited Horizontal H6A Well Work Permits Weekly West Pad**

1 message

**Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Tue, Jan 18, 2022 at 2:15 PM

To: Mallory Stanton &lt;mstanton@anteroresources.com&gt;, Dani DeVito &lt;ddevito@shalepro.com&gt;, mhamsher@anteroresources.com, Douglas Newlon &lt;douglas.c.newlon@wv.gov&gt;, Arlene Mossor &lt;amosor@wvassessor.com&gt;

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

**47-085-10412 - MAXSON UNIT 1H**  
**47-085-10413 - MAXSON UNIT 2H**  
**47-085-10416 - GANDER UNIT 1H**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

**Wade A. Stansberry**

**Environmental Resource Specialist 3**

**West Virginia Department of Environmental Protection**

**Office of Oil & Gas**

**601 57th St. SE**

**Charleston, WV 25304**

**(304) 926-0499 ext. 41115**

**(304) 926-0452 fax**

**[Wade.A.Stansberry@wv.gov](mailto:Wade.A.Stansberry@wv.gov)**

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**3 attachments**

 **47-085-10412 - mod.pdf**  
3406K

 **47-085-10413 - mod.pdf**  
3678K

 **47-085-10416 - mod.pdf**  
3580K

**01/21/2022**