



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

PERMIT MODIFICATION APPROVAL

January 25, 2016

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET
DENVER, CO 80202

Re: Permit Modification Approval for API Number 1706478, Well #: REXAL UNIT 2H

Extend Lateral

Oil and Gas Operator:

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.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

Promoting a healthy environment.



Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

December 22, 2015

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Ms. Laura Adkins
601 57th Street
Charleston, WV 25304

Ms. Adkins:

Antero Resources Corporation (Antero) would like to submit the following permit modification for one approved well on the existing Misery Pad. We are requesting to extend the lateral length and associated Estimated Measured Depth for the Rexal Unit 2H (API# 47-017-06478).

Attached you will find the following documents:

- REVISED Form WW-6B, which shows the updated BHL and Measured Depth
- REVISED Mylar Plat, which shows the new Lateral Length and Estimated Measured Depth
- REVISED Form WW-6A1, which shows the new leases we will be drilling

If you have any questions please feel free to contact me at (303) 357-7323.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in blue ink that reads "Ashlie Steele".

Ashlie Steele
Permitting Supervisor
Antero Resources Corporation

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Enclosures

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

1) Well Operator: Antero Resources Corporation 494488557 017 -Doddridge Grant Smithburg 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Rexal Unit 2H Well Pad Name: Misery Pad

3) Farm Name/Surface Owner: Denzil C. Spencer, et al Public Road Access: CR 24

4) Elevation, current ground: 1001' Elevation, proposed post-construction: 1001'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7000' TVD, Anticipated Thickness- 55 Feet, Associated Pressure- 2950#

8) Proposed Total Vertical Depth: 7000' TVD

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 16700' MD

11) Proposed Horizontal Leg Length: 9033'

12) Approximate Fresh Water Strata Depths: 475'

13) Method to Determine Fresh Water Depths: Deano Unit 2H (API# 47-017-06498) on same pad.

14) Approximate Saltwater Depths: 1477', 1675'

15) Approximate Coal Seam Depths: None Identified

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#	40'	40'	CTS, 38 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	557'	557' *See #19	CTS, 774 Cu. Ft
Coal	9-5/8"	New	J-55	36#	2523'	2523'	CTS, 1027 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	16700'	16700'	4178 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

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	30"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	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"	8-3/4" & 8-1/2"	0.361"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

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PACKERS

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

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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.

*Antero will be air drilling the fresh water string which makes it difficult to determine when freshwater is encountered, therefore we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 18.62 existing acres

22) Area to be disturbed for well pad only, less access road (acres): 5.76 existing acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' 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.

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

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride

Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

Production: 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: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 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.

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*Note: Attach additional sheets as needed.

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;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Wilmer G. Knight et al Lease</u>			
Wilmer G. Knight et ux	Allegheny Land & Mineral Company	1/8	0068/0183
Allegheny Land & Mineral Company	National Producers Inc	Assignment	0084/0074
National Producers Inc	Jack E. Webber et ux	Assignment	0089/0494
Jack E. Webber et ux	Jeffry Webber et ux	Assignment	0093/0388
Jeffry Webber et ux	Aries Petroleum Corp.	Assignment	0122/0250
Aries Petroleum Corp.	Chesterfield Energy Corp	Assignment	0134/0748
Chesterfield Energy Corp	John Clevenger	Assignment	0160/0038
John Clevenger	Dominion Appalachian and Development LLC	Assignment	0176/0095
Dominion Appalachian Development LLC	Antero Resources Appalachian Corporation	*Partial Assignment of Oil & Gas Leases	0230/0113
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Arthur Doak et ux Lease</u>			
Arthur R. Doak et ux	CNG Producing Company	1/8	0129/0626
CNG Producing Company	CNG Development Co.	Assignment	0132/0564
CNG Development Co.	CNX	Assignment	DB 0293/0252
CNX	Antero Resources Appalachian Corporation	Assignment	0260/0125
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Clay Wilcox Lease</u>			
Clay A. Wilcox, et ux	Stonewall Gas Company	1/8	0153/0087
Stonewall Gas Company	Dominion Appalachian Development, Inc.	Merger	Exhibit 2
Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Certificate of Conversion	Exhibit 3
Dominion Appalachian Development, LLC, DEPI & DTI, Inc.	Antero Resources Appalachian Corporation	*Partial Assignment of Oil and Gas Leases	0230/0113
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Dominion Transmission, Inc. Lease</u>			
Dominion Transmission, Inc.	Dominion Exploration & Production, Inc.	1/8	0230/0138
Dominion Exploration & Production, Inc	Antero Resources Appalachian Corporation	*Partial Assignment of Oil and Gas Leases	0231/0145
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Rexal Sandy et al Lease</u>			
Rexal L. Sandy, et ux	Bojacque Inc.	1/8	0156/0699
Bojacque Inc.	Stonewall Gas Company	Assignment	0157/0297
Stonewall Gas Company	Dominion Appalachian Development, Inc.	Merger	Exhibit 2
Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Certificate of Conversion	Exhibit 3
Dominion Appalachian Development, LLC, DEPI & DTI, Inc.	Antero Resources Appalachian Corporation	*Partial Assignment of Oil and Gas Leases	0230/0113
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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*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.

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Dorthea Morgan, et al Lease</u>			
Dorthea I. Morgan, et vir	Bojacque, Inc.	1/8	0153/0223
Bojacque, Inc.	Stonewall Gas Company	Assignment	0155/0592
Stonewall Gas Company	Dominion Appalachian Development, Inc.	Merger	Exhibit 2
Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Certificate of Conversion	Exhibit 3
Dominion Appalachian Development, LLC	Antero Resources Appalachian Corporation	*Partial Assignment of Oil & Gas Leases	0230/0113
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Donna Wright Lease</u>			
Donna Wright	Antero Resources Corporation	1/8+	0502/0073
<u>Cecil Fluharty Lease</u>			
Cecil Fluharty	Roy D. Haddle	1/8	0272/0644
Roy D. Hadley	Stonewall Gas Company	Assignment	0282/0387
Stonewall Gas Company	Dominion Reserves, Inc.	Assignment	0292/0004
Dominion Reserves, Inc.	Consol Gas Reserves, Inc.	Name Change	COI 0009/0116
Consol Gas Reserves, Inc.	Consol Gas Company	Merger	COI 0009/0156
Consol Gas Company	CNX Gas Company, LLC	Name Change	0384/0191
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	0425/0725
<u>Clifford Underwood, et ux Lease</u>			
Clifford Underwood, et al	Drilling Appalachian Corporation	1/8	0280/0588
Drilling Appalachian Corporation	Dominion Appalachian Development	Assignment	0322/0190
Dominion Appalachian Development, Inc.	CONSOL Gas Appalachian Development, LLC	Name Change	COI 0009/0124
CONSOL Gas Appalachian Development, LLC	Consol Gas Reserves, Inc.	Certificate of Merger	COI 0009/0144
Consol Gas Reserves, Inc.	Consol Gas Company	Certificate of Merger	COI 0009/0156
Consol Gas Company	CNX Gas Company, LLC	Affidavit of Merger	0384/0191
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	0425/0725

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Environmental Protection

*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.

**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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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>Dwayne Sweeney Estate Lease</u>	Donald Sweeney Estate, Ralph T. Sweeney, AIF	Drilling Appalachian Corporation	1/8	0276/0314
	Drilling Appalachian Corporation	Dominion Appalachian Development, Inc.	Assignment	0322/0190
	Dominion Appalachian Development, Inc	CONSOL Gas Appalachian Development, LLC	Name Change	COI 0009/0124
	CONSOL Gas Appalachian Development, LLC	Consol Gas Reserves, Inc.	Certificate of Merger	COI 0009/0144
	Consol Gas Reserves, Inc.	Consol Gas Company	Certificate of Merger	COI 0009/0156
	Consol Gas Company	CNX Gas Company, LLC	Certificate of Merger	COI 0009/0206
	CNX Gas Company, LLC	Antero Resources Corporation	Assignment	0425/0725

*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

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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: Kevin Kilstrom
 Its: Vice President of Production Office of Oil and Gas

JAN 21 2016
Page 1 of _____

COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION
Clerk of the Commission
P. O. Box 1197, 1300 East Main Street
Richmond, VA 23209

ARTICLES OF MERGER
DOMINION APPALACHIAN DEVELOPMENT, INC. *Dan*
a Virginia corporation
STONEWALL GAS COMPANY
a Virginia corporation

The undersigned corporations, pursuant to Title 13.1, Chapter 9, Article 12 of the Code of Virginia, hereby execute the following Articles of Merger and set forth:

ARTICLE I

The Plan of Merger (the "Plan") made and entered into as of the 31st day of August, 1998 by and between the undersigned corporations and attached hereto as Exhibit A provides for the merger of Stonewall Gas Company into Dominion Appalachian Development, Inc. The Plan constitutes the "Plan of Merger" for the purposes of Article 12 of the Virginia State Corporation Act.

ARTICLE II

The Plan was adopted by the written consent of the sole shareholder of Stonewall Gas Company.

ARTICLE III

The Plan was adopted by the written consent of the sole shareholder of Dominion Appalachian Development, Inc.

ARTICLE IV

These Articles of Merger shall become effective on September 30, 1998.

IN WITNESS WHEREOF, Dominion Appalachian Development, Inc. and Stonewall Gas Company have caused these Articles of Merger to be executed as of the 21st day of August, 1998.

DOMINION APPALACHIAN
DEVELOPMENT, INC.,
a Virginia corporation

By: Thomas N. Channing
Name: Thomas N. Channing
Its: Vice President

STONEWALL GAS COMPANY,
a Virginia corporation

By: G. E. Luke, Jr.
Name: G. E. Luke, Jr.
Its: Sr. Vice President

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FORM WW-6A1
EXHIBIT 3

AC

State of West Virginia



Certificate

I, Betty Ireland, Secretary of State of the State of West Virginia, hereby certify that

DOMINION APPALACHIAN DEVELOPMENT, INC.
(a Virginia corporation)

filed an application for Conversion in my office as required by the provisions of the West Virginia Code and was found to conform to law.

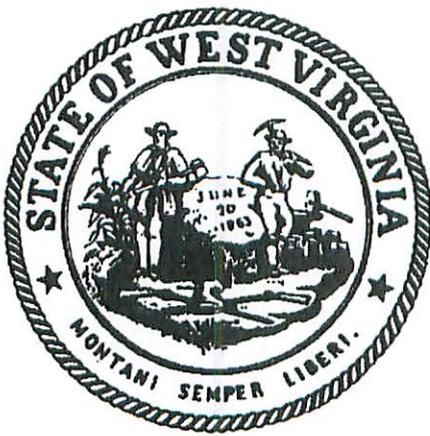
Therefore, I issue this

CERTIFICATE OF CONVERSION

converting the corporation to

DOMINION APPALACHIAN DEVELOPMENT, LLC
(a Virginia Limited Liability Company)

4701706478 Not



Given under my hand and the Great Seal of the State of West Virginia on
February 23, 2006

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Betty Ireland
Secretary of State

JAN 21 2016
Secretary of State

LATITUDE 39°22'30"

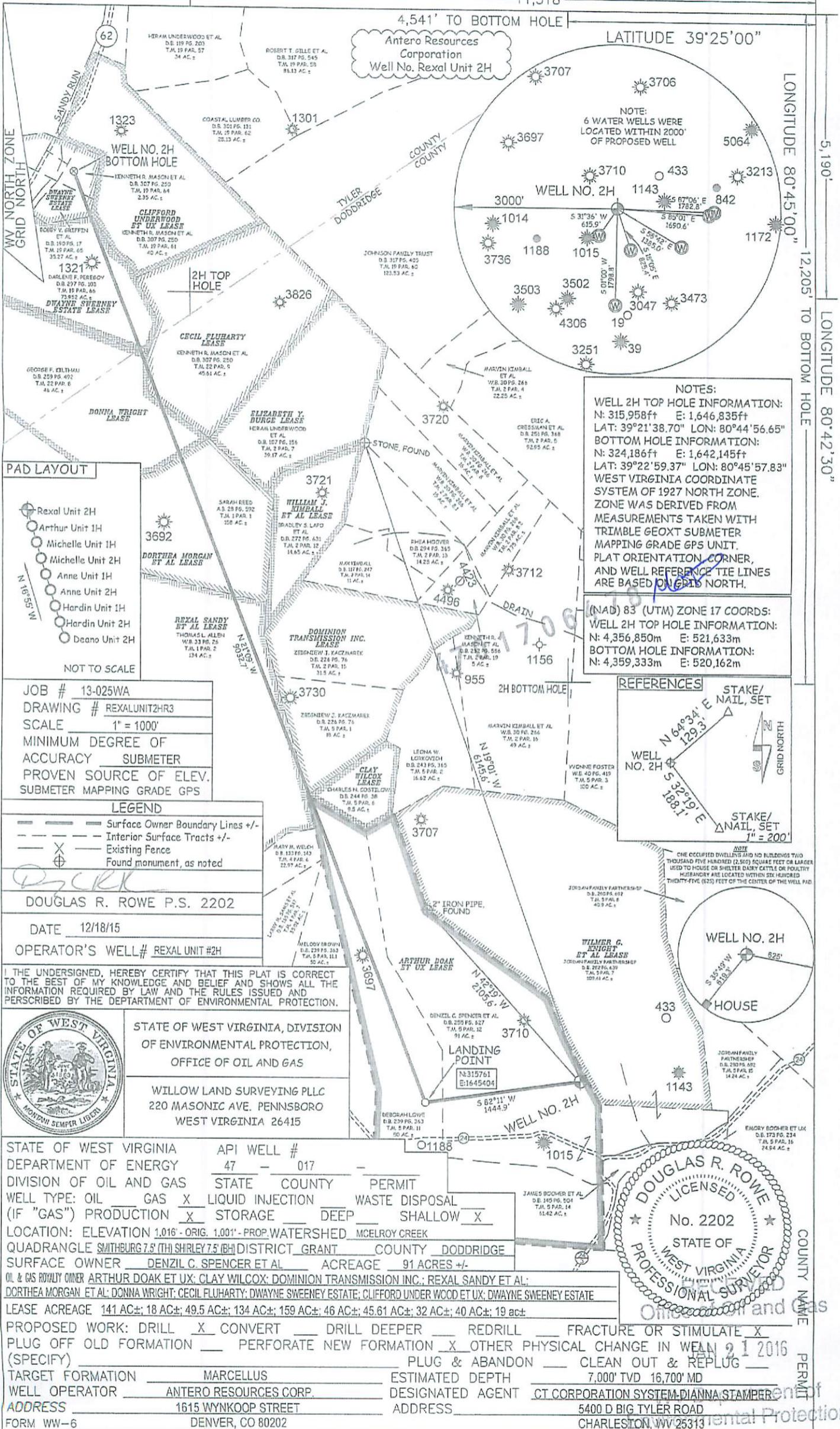
11,518'

4,541' TO BOTTOM HOLE

LATITUDE 39°25'00"

LONGITUDE 80°45'00"

5,190' LONGITUDE 80°42'30"



NOTES:

WELL 2H TOP HOLE INFORMATION:
 N: 315,958ft E: 1,646,835ft
 LAT: 39°21'38.70" LON: 80°44'56.65"

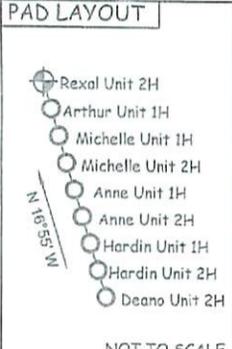
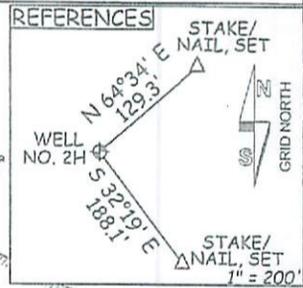
BOTTOM HOLE INFORMATION:
 N: 324,186ft E: 1,642,145ft
 LAT: 39°22'59.37" LON: 80°45'57.83"

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: 4,356,850m E: 521,633m

BOTTOM HOLE INFORMATION:
 N: 4,359,333m E: 520,162m



JOB # 13-025WA
 DRAWING # REXALUNIT2HR3
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND

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

DOUGLAS R. ROWE P.S. 2202
 DATE 12/18/15
 OPERATOR'S WELL# REXAL UNIT #2H

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.

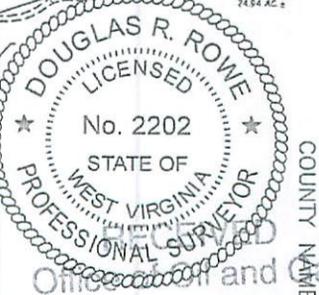


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

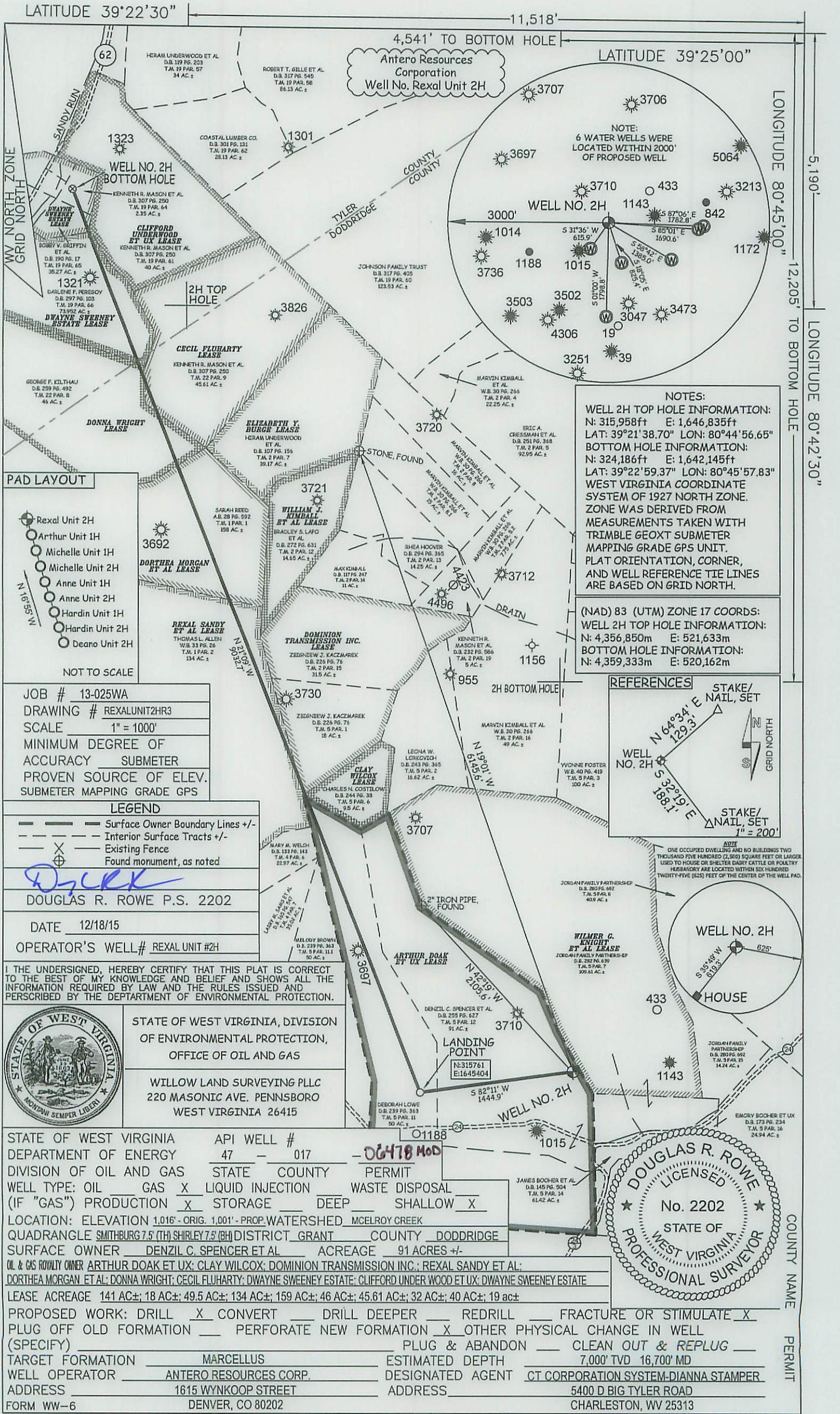
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,016 - ORIG. 1,001' - PROP. WATERSHED MCELROY CREEK
 QUADRANGLE SMITHBURG 7.5 (TH) SHIRLEY 7.5 (BH) DISTRICT GRANT COUNTY DODDRIDGE
 SURFACE OWNER DENZIL C. SPENCER ET AL ACREAGE 91 ACRES +/-
 OIL & GAS ROYALTY OWNER ARTHUR DOAK ET UX; CLAY WILCOX; DOMINION TRANSMISSION INC.; REXAL SANDY ET AL;
 DORTHEA MORGAN ET AL; DONNA WRIGHT; CECIL FLUHARTY; DWAYNE SWEENEY ESTATE; CLIFFORD UNDER WOOD ET UX; DWAYNE SWEENEY ESTATE

LEASE ACREAGE 141 AC±; 18 AC±; 49.5 AC±; 134 AC±; 159 AC±; 46 AC±; 45.61 AC±; 32 AC±; 40 AC±; 19 ac±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL
 (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 16,700' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313



COUNTY NAME PERMIT

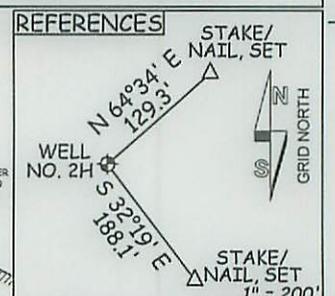


Antero Resources Corporation
Well No. Rexal Unit 2H

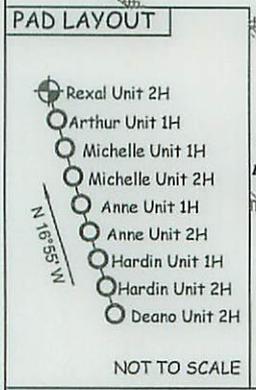
NOTE:
6 WATER WELLS WERE
LOCATED WITHIN 2000'
OF PROPOSED WELL

NOTES:
WELL 2H TOP HOLE INFORMATION:
N: 315,958ft E: 1,646,835ft
LAT: 39°21'38.70" LON: 80°44'56.65"
BOTTOM HOLE INFORMATION:
N: 324,186ft E: 1,642,145ft
LAT: 39°22'59.37" LON: 80°45'57.83"
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: 4,356,850m E: 521,633m
BOTTOM HOLE INFORMATION:
N: 4,359,333m E: 520,162m



NOTE
ONE OCCUPIED DWELLING AND NO 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 # 13-025WA
DRAWING # REXALUNIT2HR3
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY SUBMETER
PROVEN SOURCE OF ELEV.
SUBMETER MAPPING GRADE GPS

LEGEND

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

DOUGLAS R. ROWE P.S. 2202
DATE 12/18/15
OPERATOR'S WELL# REXAL UNIT #2H

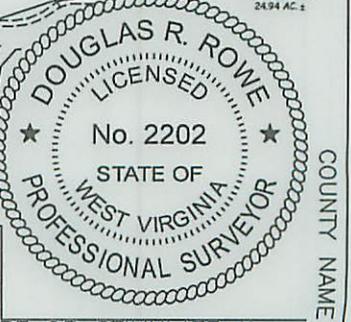
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT
TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE
INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND
PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,016' - ORIG. 1,001' - PROP. WATERSHED MCELROY CREEK
QUADRANGLE SMITHBURG 7.5 (TH) SHIRLEY 7.5 (BH) DISTRICT GRANT COUNTY DODDRIDGE
SURFACE OWNER DENZIL C. SPENCER ET AL ACREAGE 91 ACRES +/-
OIL & GAS ROYALTY OWNER ARTHUR DOAK ET UX; CLAY WILCOX; DOMINION TRANSMISSION INC.; REXAL SANDY ET AL;
DORTHEA MORGAN ET AL; DONNA WRIGHT; CECIL FLUHARTY; DWAYNE SWEENEY ESTATE; CLIFFORD UNDER WOOD ET UX; DWAYNE SWEENEY ESTATE

LEASE ACREAGE 141 AC±; 18 AC±; 49.5 AC±; 134 AC±; 159 AC±; 46 AC±; 45.61 AC±; 32 AC±; 40 AC±; 19 AC±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL
(SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 16,700' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313



COUNTY NAME
PERMIT

