

west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, July 17, 2019 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for RODZINA UNIT 2H

47-095-02586-00-00

Extend Lateral

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.

James A. Martin

Chief

Operator's Well Number: RODZINA UNIT 2H

Farm Name: GARY D. DAWSON ET UX

U.S. WELL NUMBER: 47-095-02586-00-00

Horizontal 6A New Drill

Date Modification Issued: July 17, 2019

Promoting a healthy environment.

WW-6B (04/15) API NO. 47- 095 - 02586

OPERATOR WELL NO. Rodzina Unit 2H

Well Pad Name: Dawson Pad

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

1) Well Operator: Antero Res	sources Corpora	494507062	095 - Tyler	Centervill	Shirley 7.5'
20,472,000		Operator ID	County	District	Quadrangle
2) Operator's Well Number: R	odzina Unit 2H	Well Pa	nd Name: Daws	son Pad	
3) Farm Name/Surface Owner:	Gary D. Dawson	Public Ro	ad Access: Sta	te Route 18	3
4) Elevation, current ground:	1009' El	evation, proposed	l post-construct	on:	
5) Well Type (a) Gas X Other	Oil	Uno	lerground Stora	ge	
	allow X prizontal X	Dеер			/
6) Existing Pad: Yes or No Ye	es —				
7) Proposed Target Formation(Marcellus Shale: 6900' TVD,					
8) Proposed Total Vertical Dep	th: 6900' TVD				
9) Formation at Total Vertical l	Depth: Marcellus	i			
10) Proposed Total Measured I	Depth: 23200' M	D			
11) Proposed Horizontal Leg L	ength: 13544'				
12) Approximate Fresh Water S	Strata Depths:	115', 320', 455			
13) Method to Determine Fresh 14) Approximate Saltwater Dep		A 7 8 72	epths have been ac	ljusted accordi	ng to surface elevations
15) Approximate Coal Seam D	epths: 275', 424',	975'			
16) Approximate Depth to Poss	sible Void (coal mi	ne, karst, other):	None Anticipa	ted	
17) Does Proposed well locatio directly overlying or adjacent to		ns Yes	No.	X	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				10 m
	Seam:				CEIVED Oil and Gas
*	Owner:				
					0.8.2019

WV Department of Environmental Protection WW-6B (04/15) API NO. 47-_095____-_02586

OPERATOR WELL NO. Rodzina Unit 2H

Well Pad Name: Dawson Pad

18) <u>CASING AND TUBING PROGRAM</u>

ТҮРЕ	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-55	54.5#	505 *see # 19	505 *see # 19	CTS, 702 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	23200	23200	5971 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
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	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	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"	8-3/4" & 8-1/2"	0.415"	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							

PACKERS

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

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WW-6B (10/14)

API NO. 47- 095 - 02586

OPERATOR WELL NO. Rodzina Unit 2H

Well Pad Name: Dawson Pad

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 fresh water 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): Existing 28.65 acres
- 22) Area to be disturbed for well pad only, less access road (acres): Existing 9.14 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.

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 and 1/4 lb of flake 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, rungesing with all trip out, rungesing wit

water followed by 10 bbis tresh water and 25 bbis bentonite mud, pump 10 bbis 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 bbis fresh water, pump 48 bbis barite pill, pump 10 bbis fresh water followed by 48 bbis mud flush and 10 bbis water.

WV Department of

^{*}Note: Attach additional sheets as needed.

Operator's Well Number

Rodzina Unit 2H

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
Gary D. Dawson et ux Lease			
Gary D. Dawson et ux	Antero Resources Corporation	1/8+	0459/0133
Coastal Forest Resources Co. Lease (TM 15 P 28)			
Coastal Forest Resources Co.	Noble Energy Inc	1/8+	0534/0250
Noble Energy Inc	CNX Gas Co. LLC	Assignment	0549/0523
CNX Gas Co. LLC	Antero Resources Corporation	Assignment	0564/0704
Ralph J. Underwood et ux Lease			
Ralph J. Underwood et ux	Chesterfield Energy Corporation	1/8	0267/0168
Chesterfield Energy Corporation Dominion Appalachian Development Properties Consol Gas Appalachian Development Consol Gas Reserves Inc Consol Gas Company CNX Gas Company LLC	Dominion Appalachian Development Properties Consol Gas Appalachian Development Consol Gas Reserves Inc Consol Gas Company CNX Gas Company LLC Antero Resources Corporation	Assignment Name Change Merger Merger Name Change Agreement	0312/0505 0009/0124 0009/0144 0009/0156 0009/0206 0626/0386
Coastal Forest Resources Co. Lease (TM 15 P 31)			
Coastal Forest Resources Co.	Noble Energy Inc	1/8+	0534/0250
Noble Energy Inc	CNX Gas Co. LLC	Assignment	0549/0523
CNX Gas Co. LLC	Antero Resources Corporation	Assignment	0564/0704
Ann R. Martinelli et vir Lease			
Ann R. Martinelli et vir	Noble Energy Inc	1/8	0541/0484
Noble Energy Inc	CNX Gas Company LLC	Assignment	0550/0273
CNX Gas Company LLC	Antero Resources Corporation	Agreement	0626/0386
Clarence Hadley et ux Lease (TM 15 PCL 12)		0.00	and a section
Clarence Hadley et ux	Jack Burg	1/8+	0264/0637
Jack Burg	Anvil Oil Company Inc	Agreement	0265/0055
Anvil Oil Company Inc	Anvil Oil & Gas Company Inc	Name Change	WVSOS
Anvil Oil & Gas Company Inc	Dominio Appalachian Development Inc	Assignment	0232/0383
Dominio Appalachian Development Inc	Dominion Appalachian Development LLC	Name Change	WVSOS 0009/0131
Dominion Appalachian Development LLC	Consol Gas Appalachian Development LLC Consol Gas Reserves Inc	Name Change	0009/0131
Consol Gas Appalachian Development LLC Consol Gas Reserves Inc	Consol Gas Company	Merger Merger	0009/0156
1,3 TA 11 TA			0009/0206
Consol Gas Company	CNX Gas Company LLC	Merger	
CNX Gas Company LLC	Noble Energy Inc	Assignment	0388/0286
Noble Energy Inc	CNX Gas Company LLC	Assignment	0550/0273
CNX Gas Company LLC	Antero Resources Corporation	Agreement	RECEIVED RECORD OII and Gas

^{*}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.

WV Department of

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- (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
Clarence Hadley et ux Lease (TM 15 PCL 14.1)			
Clarence Hadley et ux	Jack Burg	1/8+	0264/0637
Jack Burg	Anvil Oil Company Inc	Agreement	0265/0055
Anvil Oil Company Inc	Anvil Oil & Gas Company Inc	Name Change	WVSOS
Anvil Oil & Gas Company Inc	Dominio Appalachian Development Inc	Assignment	0232/0383
Dominio Appalachian Development Inc	Dominion Appalachian Development LLC	Name Change	WVSOS
Dominion Appalachian Development LLC	Consol Gas Appalachian Development LLC	Name Change	0009/0131
Consol Gas Appalachian Development LLC	Consol Gas Reserves Inc	Merger	0009/0144
Consol Gas Reserves Inc	Consol Gas Company	Merger	0009/0156
Consol Gas Company	CNX Gas Company LLC	Merger	0009/0206
CNX Gas Company LLC	Noble Energy Inc	Assignment	0388/0286
Noble Energy Inc	CNX Gas Company LLC	Assignment	0550/0273
CNX Gas Company LLC	Antero Resources Corporation	Agreement	0626/0386
<u>Vada Sue Kissner Lease</u>			
Vada Sue Kissner	Antero Resources Corporation	1/8+	0446/0269
Antero Resources Corporation	CNX Gas Company LLC	Assignment	0503/0724
CNX Gas Company LLC	Antero Resources Corporation	Agreement	0626/0386
Emerson Laurence Moore et ux Lease			
Emerson Laurence Moore et ux	Royal Resources Corporation	1/8+	0190/0478
Royal Resources Corporation	Columbia Gas Transmission Corporation	Assignment	0191/0235
Columbia Gas Transmission Corporation	Anvil Oil Company Inc	Assignment	0265/0112
Anvil Oil Company Inc	Dominion Appalachian Development Inc	Assignment	0323/0383
Dominion Appalachian Development Inc	Dominion Appalachian Development LLC	Name Change	WVSOS
Dominion Appalachian Development LLC	Consol Gas Appalachian Development	Name Change	0009/0131
Consol Gas Appalachian Development	Consol Gas Reserves Inc	Merger	0009/0144
Consol Gas Reserves Inc	Consol Gas Company	Merger	0009/0156
Consol Gas Company	CNX Gas Company	Name Change	0009/0206
CNX Gas Company LLC	Antero Resources Corporation	•	0626/0386
CNA Gas Company LLC	Antero Resources Corporation	Agreement	0020/0380
Joseph E. Michael et ux Lease		. 10	
Joseph E. Michael et ux	Antero Resources Corporation	1/8	0557/0292
Antero Resources Corporation	CNX Gas Company LLC	Assignment	0503/0738
CNX Gas Company LLC	Antero Resources Corporation	Agreement	0626/0386
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*My Department

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*My Department Protection**

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Violet Gregg et al Lease			
Violet Gregg et al	James F. Doan	1/8	0254/0245
James F. Doan	Anvil Oil Company Inc	Assignment	0254/0245
Anvil Oil Company Inc	Anvil Oil & Gas Company	Name Change	0254/0245
Anvil Oil & Gas Company	Dominion Appalachian Development	Assignment	0323/0383
Dominion Appalachian Development	Consol Gas Appalachian Development	Name Change	0009/0131
Consol Gas Appalachian Development	Consol Gas Reserves Inc	Merger	0009/0144
Consol Gas Reserves Inc	Consol Gas Company	Merger	0009/0156
Consol Gas Company	CNX Gas Company LLC	Name Change	0009/0206
CNX Gas Company LLC	Antero Resources Corporation	Agreement	0626/0386
Roy A. Meredith et ux Lease			
Roy A. Meredith et ux	J&J Enterprises Inc	1/8	0257/0527
J&J Enterprises Inc	Eastern American Energy Corporation	Assignment	0282/0296
Eastern American Energy Corporation	Energy Corporation of America	Certificate of Merger	0009/0093
Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	0398/0416
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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WV Department of Environmental Protection WW-6A1 (5/13)

Operator's Well No.	Rodzina Unit 2H
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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
O.W. Griffin et ux Lease	7		71000000	
	O.W. Griffin et ux	R.W. Keener	1/8+	0196/0234
	R.W. Keener	Columbia Gas Transmission Corporation	Assignment	0196/0163
	Columbia Gas Transmission Corporation	Columbia Natural Resources, Inc.	Assignment	0286/0603
	Columbia Natural Resources, Inc.	Columbia Natural Resources LLC	Name Change	0009/0001
	Columbia Natural Resources LLC	Chesapeake Appalachia LLC	Merger	0349/0536
	Chesapeake Appalachia LLC	SWN Production Company	Assignment	0465/0463
	SWN Production Company	Antero Exchange Properties	Assignment	0544/0242
	Antero Exchange Properties	Antero Resources Corporation	Merger	0552/0315

*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

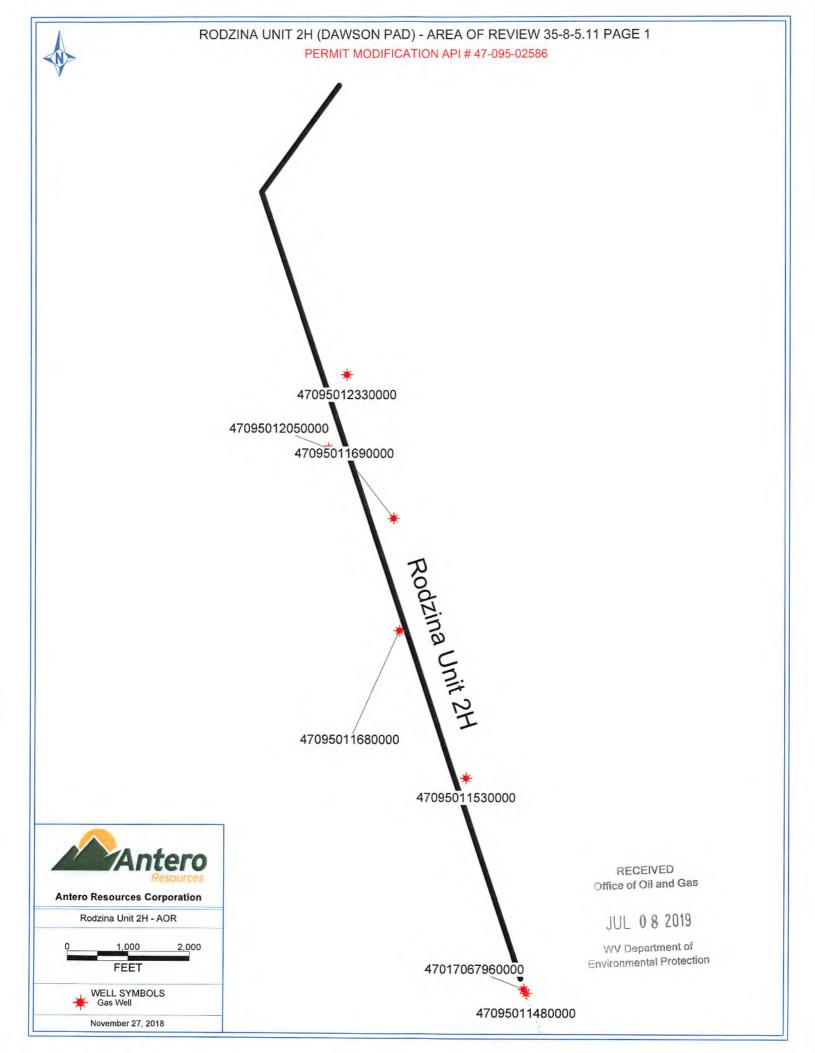
The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- 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 Resource	es Corpo	ration RECEIVED
By:	Kevin Kilstrom	hul	
Its:			roduction 0 8 2019

WV Department of Environmental Protection Page 1 of



IV 5,135 Perforated Interval (shallowest, deepest) IY 5,135 4623 - 5028 IY 5,134 4529 - 4931 IY 5,050 4511 - 4929 IY 5,083 4522 - 4933 IS 5,145 4566 - 4939 IS 21,348 6975 - 21256 IS 5,547 4557 - 4966									
2 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,135 4623-5028 1 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,134 4529-4931 2 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,050 4511-4929 7AL 1 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,083 4552-4933 7AL 1 CONSOL GAS COMPANY COASTAL CORP THE 5,145 4552-4933 1 Anter of Resources Corporation COASTAL CORP THE 5,145 4556-4939 1 Anter of Resources Corporation 21,348 6975-21256 1-1255 ENRROY CORP OF AMIRR J. & JENTERPRISES 5,547 4557-4966	UWI (APINum)	Well Name	Well Number		Hist Oper	₽	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
1 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,134 4529 - 4931 2 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,050 4511 - 4929 AL 1 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,083 4552 - 4953 AL 1 CONSOL GAS COMPANY COASTAL CORP THE 5,145 4556 - 4939 Antero Resources Corporation 21,348 6975 - 21256 5 J-1265 ENERGY CORP OF AMER J & J ENTERPRISES 5,547 4557 - 4966	47095012330000	HADLEY RUBY	2	CONSOL GAS COMPANY	ANVIL OIL COMPANY	5,135	4623 - 5028	Riley, Benson	Big Injun, Weir, Alexander
2 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,050 4531 - 4929 1 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,083 4552 - 4953 TAL 1 CONSOL GAS COMPANY COASTAL CORP THE 5,145 4556 - 4939 1 Antero Resources Corporation 21,348 6975 - 21256 1-1265 ENRIGY CORP OF AMER 1 & JENTERPRISES 5,547 4557 - 4966	47095012050000	HADLEY CLARENCE	1	CONSOL GAS COMPANY	ANVIL OIL COMPANY	5,134	4529 - 4931	Riley, Benson	Big Injun, Weir, Alexander
TAL 1 CONSOL GAS COMPANY ANVIL OIL COMPANY 5,083 4552 - 4953 TAL 1 CONSOL GAS COMPANY COASTAL CORP THE 5,145 4566 - 4939 1H Antero Resources Corporation 21,348 6975 - 21256 1-1265 ENERGY CORP OF AMER 1 & J ENTERPRISES 5,547 4557 - 4966	47095011690000	MOORE MABEL B	7	CONSOL GAS COMPANY	ANVIL OIL COMPANY	5,050	4511 - 4929	Riley, Benson	Big Injun, Weir, Alexander
TAL 1 CONSOL GAS COMPANY COASTAL CORP THE 5,145 4566 - 4939 1H Antero Resources Corporation 21,348 6975 - 21256 J-1265 ENERGY CORP OF AMER J & J ENTERPRISES 5,547 4557 - 4966	47095011680000		1	CONSOL GAS COMPANY	ANVIL OIL COMPANY	5,083	4552 - 4953	Riley, Benson	Big Injun, Weir, Alexander
1H Antero Resources Corporation 21,348 6975 - 21256 J-1265 ENERGY CORP OF AMER J & J ENTERPRISES 5,547 4557 - 4966	47095011530000	GREGG MILDRED ET AL	1	CONSOL GAS COMPANY	COASTAL CORP THE	5,145	4566 - 4939	Riley, Benson	Big Injun, Weir, Alexander
J-1265 ENERGY CORP OF AMER J & J ENTERPRISES 5.547 4557 - 4966	47017067960000	CALIFORNIA UNIT	11	Antero Resources Corporation		21,348	6975 - 21256	Marcellus	Big Injun, Weir, Alexander
	47095011480000	GLASURE DAVID W		ENERGY CORP OF AMER	J & J ENTERPRISES	5,547	4557 - 4966	Riley, Benson	Big Injun, Weir, Alexander

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