

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Thursday, March 13, 2025 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ARSENAL RESOURCES LLC 6031 WALLACE RD EXT., SUITE 101

WEXFORD, PA 15090

Re: Permit Modification Approval for D'ANNUNZIO 202 47-033-06045-00-00

Lateral Extension/ New Leases/ Forced Pooling

ARSENAL RESOURCES LLC

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.

nes A. Martin

Operator's Well Number
Farm Name:D'ANNUNZIO 202
A&B MANAGEMENT LLCU.S. WELL NUMBER:47-033-06045-00-00Horizontal 6ANew DrillDate Modification Issued:03/13/2025

Promoting a healthy environment.

API NO. 47-033

OPERATOR WELL NO. 202 Well Pad Name: D'Annunzio

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF WELL WORK PERMIT APPLICATION	4	7	0	3	3	0	6	0	Le	5
WELL WORK PERMIT APPLICATION	OIL	AN	ID	GA	S					

1) Well Onor	ator: Arsenal	Deee			1	
r) wen opera		Resources	494519412	Harrison	Clark	Clarksburg
2) Operator's	W7-11 N7 1	200	Operator ID	County	District	Quadrangle
	Well Number:		Well Pa	d Name: D'Ar	nunzio	5
3) Farm Name	/Surface Owne	er: A&B Managen		ad Access: Sta		8
4) Elevation, c	urrent ground:	1118 ft				
5) Well Type	(a) Gas X		Elevation, proposed			t
	Other	011	Und	erground Stora	ge	
	(b)If Gas	Shallow X	Deer			Office of Oil
		Iorizontal X	Deep			and Co-
6) Existing Pad						JAN 2 7 2025
7) Proposed Ta	rget Formation	(s), Depth(s), Ant	icipated Thickness a	ad Factoria	Er	WV Department of
Marcellus Sh	ale, Top - 7201	ft, Base - 7270 ft,	Anticipated Thickness and Anticipated Thickness	69ft Associate	ressure(s):	Protection
8) Proposed Tot	tal Vertical De	pth: 7250 ft		0011, 7 1050Clate	- riessure	0.5 psi/ft
9) Formation at	Total Vertical	Depth: Marcellu	us Shale /			
10) Proposed To						
11) Proposed Ho	orizontal Leg I	Length: 14,198 f	ït			
12) Approximate	e Fresh Water	Strata Depths:	128', 190',195',26	64'. 310' 445'	485'	
13) Method to D	etermine Fresh	1 Water Depths	Offsetting wells water depth			
14) Approximate	e Saltwater Dej	oths: 840', 2500'	Offsetting wells water depth		54, 05565, 0556	6, 05914, 05915, 05918)
		epths: None exp				
			ine, karst, other): No	one Known		
17) Does Propose	ed well location	n contain as -1	, , , , , , , , , , , , , , , , , , ,			
directly overlying	g or adjacent to	an active mine?	Yes			
(a) If Yes, provi			103	No	None Know	'n
-		Name:				
CK #0000 20	03490	Depth:				
\$ 1650	150 Credit	Seam:				
	150 Credit	Owner:				
			Kenny Willet	+ 1	19/25	/
			0			

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WW-6B (04/15)

API NO. 47- 033

OPERATOR WELL NO. 202

Well Pad Name: D'Annunzio

CASING AND TUBING PROGRAM

4703306045

TYPE		Nom					33000
<u> </u>	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well	<u>CEMENT:</u> <u>Fill-up</u>
Conductor	24	New	H-40	102.7	120	(<u>ft</u>)	(Cu. Ft.)/CTS
Fresh Water	13.375	New	J-55	54.5		120	CTS
Coal				01.0	575	575 /	CTS <
Intermediate	9.625	New	J-55	40	0550		
Production	5.5	New	P-110		2550	2550	CTS
Tubing		11010	1-110	20	21890	21890 🖌	TOC @ 2400
Liners							
							Office of Oil

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JAN 2 7 2025 WV Den

TYPE			117 11	T		Environn	lepartment of
2	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal	Cement Type	lepartment of lental Protection <u>Cement</u> <u>Yield</u>
Conductor	24	36			Pressure (psi)	Type	<u>(cu. ft./k)</u>
Fresh Water	13.375				0	Class A/L, 3% CaCl2	1.2
Coal	10.070	17.5	0.38	2,730	900	Class A/L, 3% CaCl2	1.2
Intermediate	0.00-						
Production	9.625	12.25	0.395	3,950	1500	Class A/L, 3% CaCl2	1.00
	5.5	8.5-8.75	0.361			Class A/L, 3% CaCl2	1.29
Tubing			0.001	15,920	11,500	Class A/L, Poz	1.29/1.34
Liners					5,000		NI.
				_	N/A		

PACKERS

Kind:		
Sizes:	 	
Depths Set:	 	

Kenny Willett

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1/9/25/

WW-6B (04/15)

18)

WW-6B (10/14)

API NO. 47-_033

OPERATOR WELL NO. 202 Well Pad Name: D'Annunzio

4703306045 19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

The well will be started with a conductor rig drilling a 36" hole to Conductor programmed depth then running 24" casing and circulate cement back to surface. The conductor rig will move out and the drilling rig will move in and rig up. The drilling rig will then spud a 17 1/2" hole and drill to fresh water casing (Surface) to the programmed depth, Run 13- 3/8" casing and cement to surface. The rig will continue drilling a 12- 1/4" intermediate hole to the programmed depth, run 9- 5/8" casing and cement to surface. The rig with then continue to drill an 8- 3/4" hole to a designed KOP. We will then start drilling the curve and lateral section to the programmed total measured depth, run 5 1/2" casing and cement according to the program.

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

The well will be completed using a plug and perforation method and stimulated with a slickwater and sand slurry. The anticipated maximum rate will be 90 bpm and the maximum pressure will be 11,500 Office of Oil and Ga

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.17

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

23) Describe centralizer placement for each casing string:

24"- No centralizers 13 3/8" - one bow spring centralizer on every other joint 9 5/8" - one bow spring centralizer every third joint from TD to surface 5 1/2" - one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 2,700'; there will

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

24" will be circulated to surface. The 13 3/8" casing will be cemented to surface with Class A/L cement and no greater than 3% CaCl2 (calcium chloride). The 9 5/8" casing will be cemented to surface with Class A/L cement, & no greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 2,450' (+/- 150' above the casing shoe for the 9 5/8") with Class A/L Poz cement retarded (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve

25) Proposed borehole conditioning procedures:

Top holes will be drilled with fresh water KOP. At KOP, the wellbore will be loaded with synthetic oil based mud, barite-weighted mud system with such properties as to build a filter-cake on the face of the bore-hole. This will provide lubricity as well as stabilizing the well bore. We will begin rotating the drill string and mud will be circulated upon reaching TD until no further cuttings are observed coming across the shaker screens. Once clean mud is circulated back to surface, we will pull three stands of drill pipe, load the hole, pull three strands and load the hole. The weight indicator on the rig will be monitored for any occurrences of drag and if any are noticed, we will re-run the previous stand of pipe pulled across and circulate 2x bottoms up while watching shakers for signs of cuttings. Once at the base curve, the string will be continuously rotated while pumping 2x bottoms up. We will pull three stands and fill the hole until we reach the vertical section of the well.

*Note: Attach additional sheets as needed.

Kenny Willett

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iental Protection

				nzio #202				
Other Names:	D'Annunzio #202		Casing	Design	470	330	60	1. 5
Surface Location: Bottom Hole Location: Directional Plan Vs. Total Depth (MD)	LAT 39.255202N x Long 80.336445 W LAT 39.255202N x Long 80.336445 W SDI #1 21890			County: State: AFE #:	Harrison WV 000000 API #:			1
Logs	Significant	Depth (ft)		RKB: Ground Level:	26 1,118		0	
	Formations (TVD)	MD	Depth (ft) TVD	Hole Size	Casing and Mud Cement		Surveys	
lone	Section 1		Drive Pipe		Schen	Drlg /Csg	Point	
one		120	120	24" 94# H-40 BTC				
	Section 2			17 1/2" (PDC)	Floc Wa			
ssible				Density/Yield/Volume (sx) TOC	Class 15.6 1.2 Surface	A/L, 3% CaCl2 703		
L after cement job		650	650	13 3/8" 54.5# J-55 LTC		V. 4		
ne	Section 3					Vertical		
				Density/field/volume (sx)	Floc Wa Class A/L, 3% CaCl2 14.5 1.19	Class A/L, 3% 712	CaCl2	
		2,600	2,600	9 5/8" 40# J-55 LTC	Surface			
eline: None floggers: KOP - TD KOP @ Prognosis	Section 4 6565			Mud Data F Floc Water 11 Floc Water 21	rom To 20 2600 500 6565 565 21880	/ertical		
Formation Bakerstown Coal Brush Creek Coal Upper Freeport Coal Lower Freeport Coal Upper Kittanning Coal	Depth (Tss) 0 0 0 0 0	0 0 0 0	Base (TVD) 0 0 0 0	17-1/2" & 12 1/4" PDC 12	6565			
Middle Kittanning Coal Lower Kittanning Coal Big Lime Balltown Sandstone Bradford Sandstone Benson Sandstone	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	Curve 9%	65 100 ft 191e 89,5	5 - (-).		
1st Elk Siltstone Burkett Shale Tully Limestone Mahantango Shale Marcellus Shale	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	Az	i 161	IVER		
Purcell Limestone Lower Marcellus Shale TARGET Onondaga Limestone	0 0 0 0 0	0 0 0 0 0		~	D 7,250 D 7,250 Office of Off	^{and} Ga x		
				Cement Lead	WV Departme Produc Lead: 50-5 13.8 1.33 Tail: Cla	tion 0 Poz/A TBD		
MD TVD Azimu	21890 7,250			TOC 2450	15 1.3	TBD		
	<u>itn 161</u>			5 1/2	" 20# P-110HP Weld	Tube GBCD		
1	1							1
Date Last Revised	1. 2004		Note: Not drawn to scale			ent Outside Casin		-

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near Arsenal Resources hydraulic fracturing in Harrison County, WV prior to hydraulic fracturing at the D'Annunzio Pad, well #202.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,250' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Benson formations (approximately 4,800' TVD).

The plan is being implemented as an additional safety measure to be utilized in conjunction with best management practices and emergency action plans for this site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurance that the Division of Oil and Gas is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Conventional Operators.

Arsenal Resources, using available data (WV Geological Survey, WVDEP Website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in Attachment A.

Upon approval of this plan, Arsenal Resources will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in The letter provides

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to Arsenal Resources and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

- Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions.
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure.
- Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
- 4. Notify the OOG and ARSENAL RESOURCES if any changes in water, gas production, pressure or other anomalies are identified.

6031 Wallace Road Extension, Suite 101, Wexford, PA 15090 Phone (724) 940-1100 eFax 1-800-428-0981

03/14/2025



2. Reporting

Arsenal Resources will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately after any event of any noted abnormalities.

Office RECEIVED of Oil and Gas JAN 2 7 2025 Environmental Protection

6031 Wallace Road Extension, Suite 101, Wexford, PA 15090 Phone (724) 940-1100 eFax 1-800-428-0981



Area of Review Report - D'Annunzio Pad, 202 Lateral, Harrison County, WV

Well Name	API Number	Operator Name / Address					county, www	
D'Annunzio 1HM	033-05563	Arsenal Resources, LLC	Well Type	Latitude	Longitude	Total Depth	Deuferretelle	
D'Annunzio 2HM	033-05564	Arsenal Resources, LLC	Existing	39.254804	-80.335771	12624	enoracearonnation(s)	Producing Zones not Perforated
D'Annunzio 3HM	033-05565	Arsonal Resources, LLC	Existing	39.254821	-80.335819	13614	Marcellus Shale	NA
D'Annunzio 4HM	033-05566	Arsenal Resources, LLC	Existing	39.254838	-80.335867	13862	Marcellus Shale	NA
D'Annunzio 205	033-05914	Arsenal Resources, LLC	Existing	39.254854	-80.335916	13605	Marcellus Shale	NA
D'Annunzio 206	033-05915	Arsenal Resources, LLC	Existing	39.255037	-80.336355	15828	Marcellus Shale	NA
D'Annunzio 207	033-05918	Arsenal Resources, LLC	Existing	39.255019	-80.336211		Marcellus Shale	NA
Elizabeth Johnson 4	033-04523	Arsenal Resources, LLC	Existing	39.255003	-80.336183	16059	Marcellus Shale	NA
Elizabeth Johnson 3	033-04524	Antero Resources, Corp	Existing	39.24516	-80.334264	15632	Marcellus Shale	NA
Hornor 1973	033-04712	Antero Resources, Corp	Existing	39.241679	-80.334078	3010	Bayard	NA
Maltba 2019	033-04712	Diversified Production, LLC	Existing	39.228483	-80.327649	2012	Gantz	NA
Farris 1977		Diversified Production, LLC	Existing	39.221668	-80.327649	4950	Benson, Greenland Gap, Speechley, 5th, Gordon	NA
14113 1577	033-04715	Diversified Production, LLC	Existing	39.216157		4865	Benson, Riley, Balltown, Speechley	NA
				33.210137	-80.321118	4760	Benson, Riley, Gordon, Hampshire, Squaw	
								NA
				+				

Office RECEIVED JAN 2 7 2025 Environmental Profession

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Diversified Energy Company

101 MCQUISTON DRIVE Jackson Center, Pa 16133

RE: D'Annunzio Pad

Dear Sir/Madam,

Arsenal Resources has developed a Marcellus pad, the D'Annunzio, well #202, located in Harrison County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,250' TVD) and existing conventional natural gas wells included in the attached well list for which you are believed to be

Arsenal Resources anticipates conducting hydraulic fracturing at the D'Annunzio Pad, well #202, during the 2nd Quarter of 2025. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our newly planned wells. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during and after

- 1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions. 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water,
- Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead
- 4. Notify the OOG and Arsenal Resources if any changes in water, gas production, pressure or

Please feel free to contact me at 724-940-1100 with any questions or comments. You may also contact the WV Office of Oil and Gas at 304-926-0499.

Sincerely,

Dave Bover Director of Geology & Development Planning

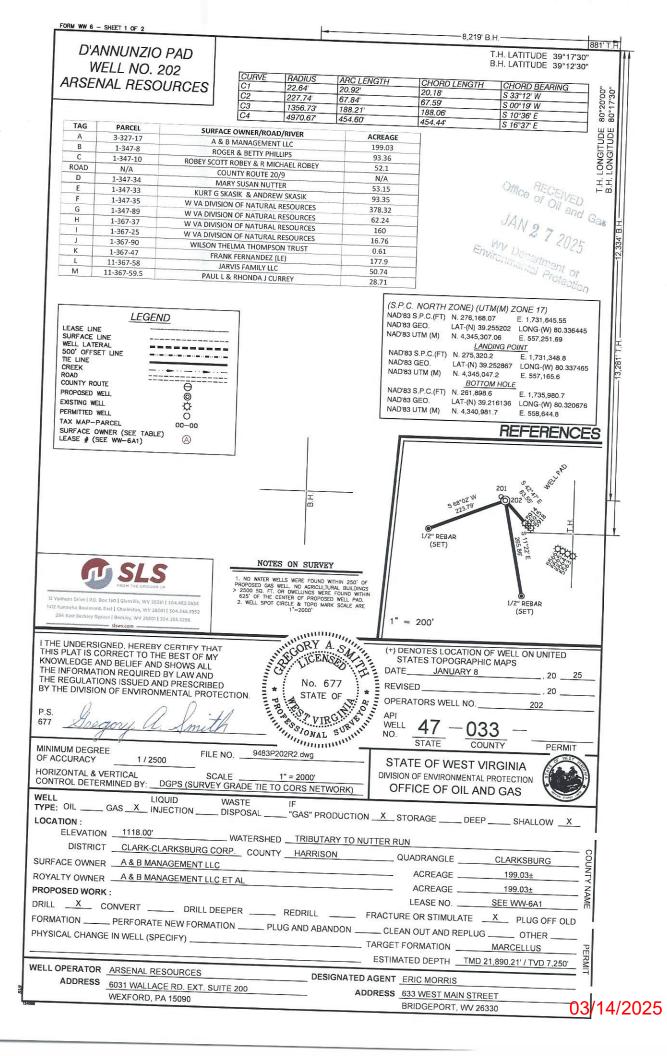
Office of Oil and Gas

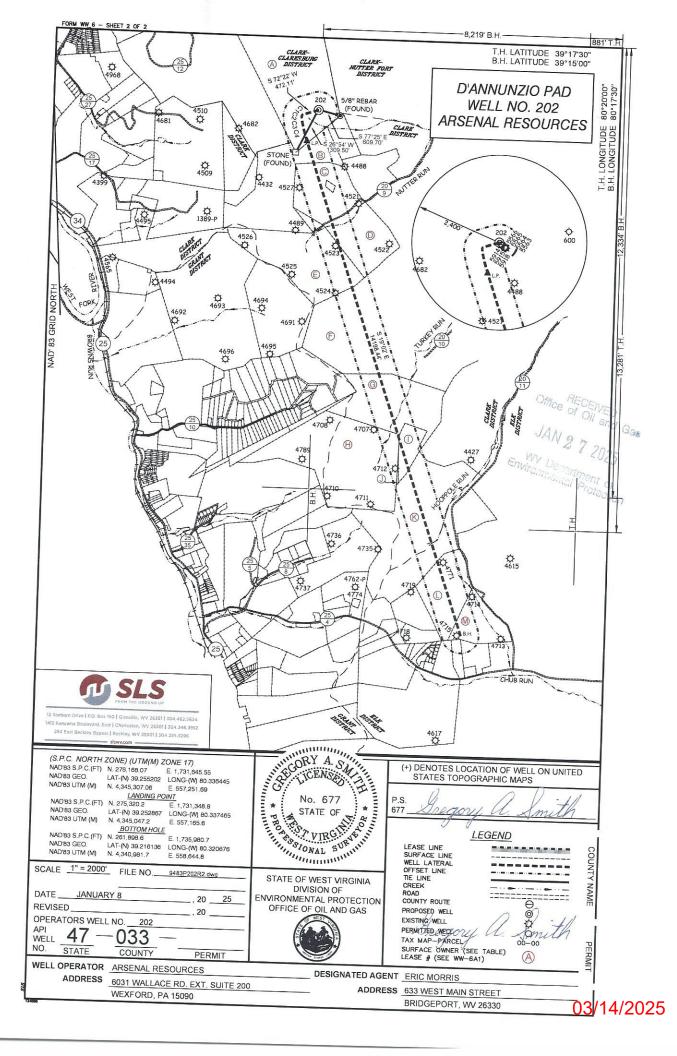
JAN 2 7 2025

WV Department of Environmental Protection

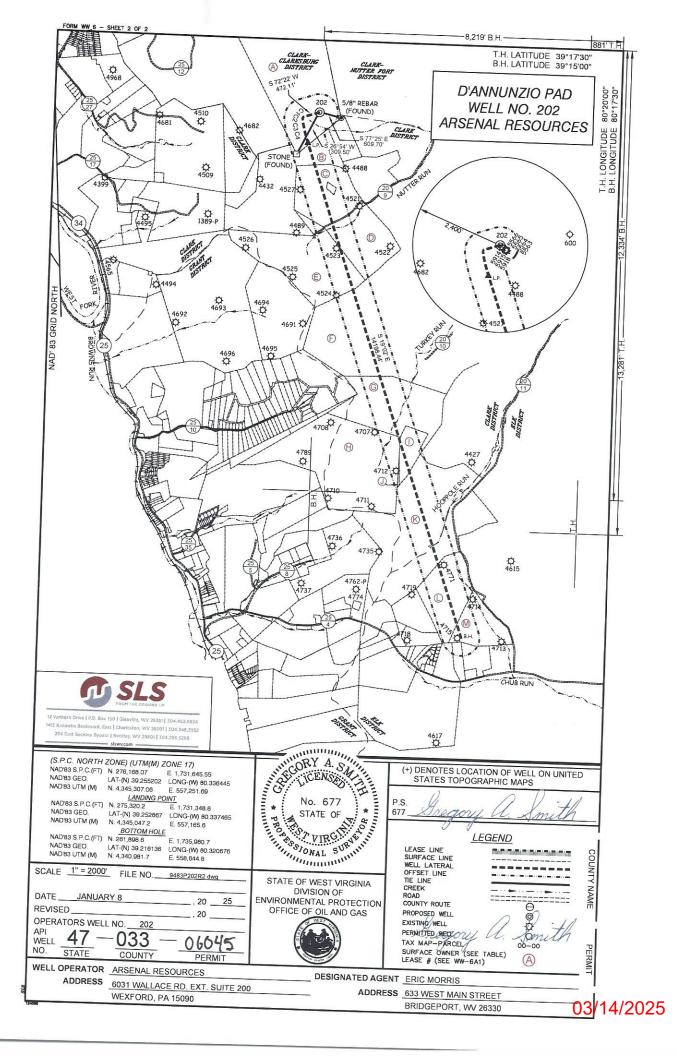
6031 Wallace Road Extension, Suite 101, Wexford, PA 15090 Phone (724) 940-1100 eFax 1-800-428-0981



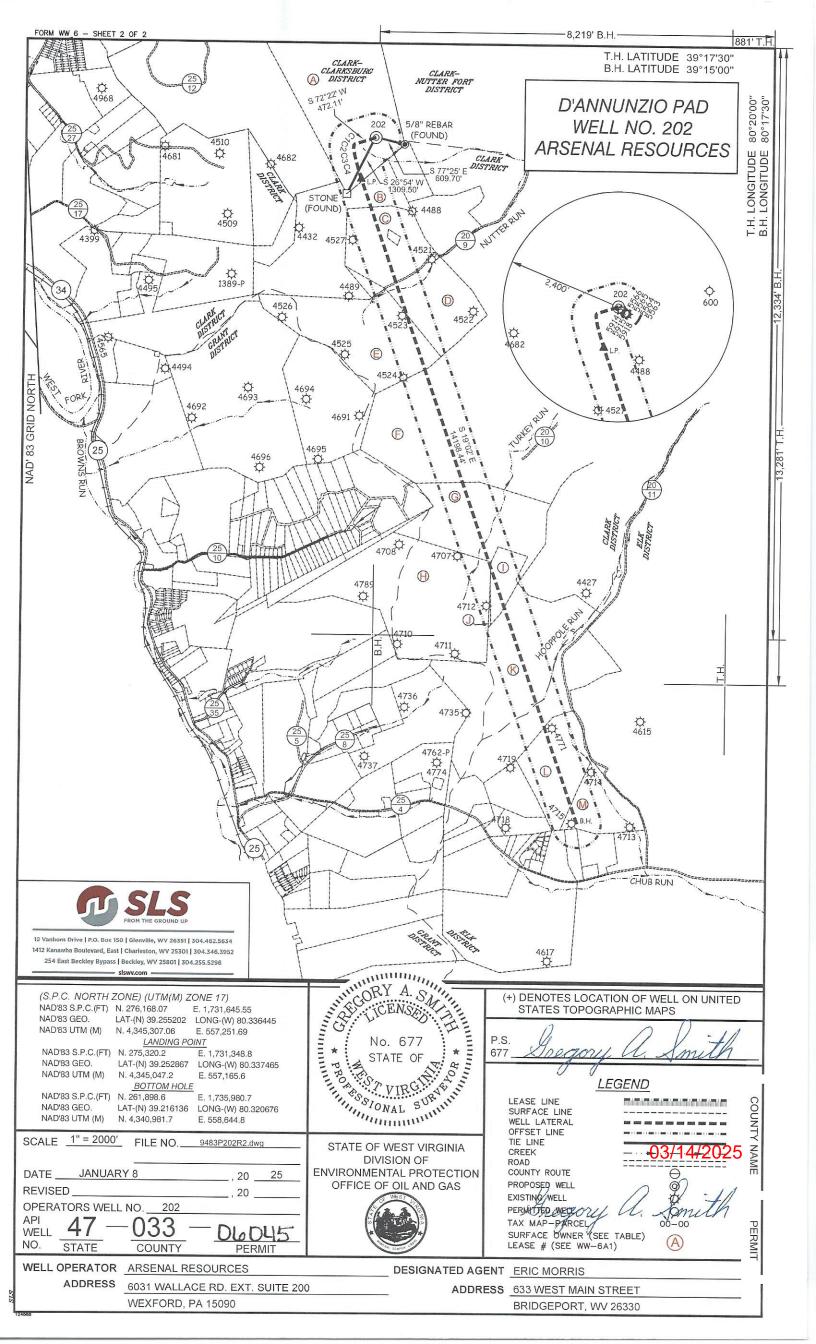




WELL NO 000					T.H. LATITUE B.H. LATITUE	88 DE 39°17'30" DE 39°12'30"
WELL NO. 202	CURVE	RADIUS	ARC LENGTH			
ARSENAL RESOURCES	C1 C2	22.64	20.92'	CHORD LENO 20.18	GTH CHORD B S 33°12' W	BEARING
	C3	227.74 1356.73	67.84' 188.21'	67.59	S 00°19' W	/
TAC	C4	4970.67	454.60'	188.06' 454.44'	S 10°36' E S 16°37' E	
TAG PARCEL SUI A 3-327-17 \$	RFACE OWNER/RO	AD/RIVER	ACREAGE		10 10 37 E	
B 1247.0	A & B MANAGEME	NT LLC	199.03			
C 1-347-10 ROBEY S	ROGER & BETTY PH COTT ROBEY & R M	HILLIPS	93.36			
N/A	COUNTY ROUTE	20/9	52.1 N/A			
F 1.047	MARY SUSAN NU	TTER	53.15			
F 1-347-35 W VA DI	G SKASIK & ANDR	EW SKASIK	93.35			
	VISION OF NATURA	L RESOURCES	378.32			
1-367-37 W VA DI	VISION OF NATURA	RESOURCES	62.24			
it the bit	VISION OF NATURA N THELMA THOMP	L RESOURCES	16.76			
1-307-47	FRANK FERNANDEZ	Z (LE)	0.61	_		
L 11-367-58	JARVIS FAMILY L	LC	<u> </u>			
11-307-39.5 PAI	UL L & RHONDA J C	CURREY	28.71			
LEASE LINE SURFACE LINE SURFACE LINE BUIL LATERAL SOO' OFFSET LINE REL LINE REL LINE ROPOSED WELL SUNTY ROUTE COUNTY R			NAD'8 NAD:8 NAD:0 NAD:0 NAD:8 NAD:8 NAD:8	33 S.P.C.(FT) N. 27 33 GEO. LAT-(33 UTM (M) N. 4, 13 S.P.C.(FT) N. 26 13 GEO. LAT-(LANDING POINT 5,320.2 E. 1,7 N) 39.252647 LONCON HOLE 1,898.6 E. 1,7; N) 39.216136 LONG 140,981.7 E. 558 REFE	251.69 31,348.8 3-(W) 80.337465 7,165.6 35,980.7 4-(W) 80.320676 3,644.8 RENCES
the Beckley Bipas Beckley, WV 2801 304.482.584 Anama Baulevard, East Oraliesten, WV 2801 304.482.584 East Beckley Bipas Beckley, WV 2801 304.285.5296 Bitwy com	1. NO WATER PROPOSED GAU > 2500 SQ. F 625' OF THE 2. WELL SPO	TES ON SURVE WELLS WERE FOUND S WELL NO AGRICULT T. OR DWELLINGS WER S CENTRE OF PROPOSI OF CIRCLE & TOPO MA 1-2000	WITHIN 250' OF URAL BUILDINGS E FOUND WITHIN ED WELL PAD.	568°02 2237 1/2" REBAR (SET) = 200'	N 9 9 11 12 12 12 12 12 12 12 12 12 12 12 12	HI CONTRACTOR
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OR DWELLINGS ' THE CENTER OF PROF SPOT CIRCLE & TOPO</th><th>ND WITHIN 250' O ULTURAL BUILDING WERE FOUND WITH POSED WELL PAD.</th><th>NAD'83 G NAD'83 U NAD'83 C NAD'83 C NAD'83 C NAD'83 C NAD'83 C</th><th>EO. LAT TM (M) N. 4 S.P.C. (FT) N. 2 GEO. LAT JTM (M) N. 4</th><th>-(N) 39.255202 LONG- ,345,307.06 E. 557, <u>LANDING POINT</u> 275,320.2 E. 1,73 7-(N) 39.252867 LONG- 4,345,047.2 E. 557 <u>BOTTOM HOLE</u> 261,898.6 E. 1,73 7-(N) 39.216136 LONG- 4,340,981.7 E. 558 REFEE</th><th>(W) 80.336445 251.69 31,348.8 (W) 80.337465 ,165.6 35,980.7 (W) 80.320676 ,644.8 RENCE</th><th>5</th></th>	THIS PLAT IS CORRECT TO THE BEST OF MY STATES TOPOGRAPHIC MAPS KNOWLEDGE AND BELIEF AND SHOWS ALL DATE JANUARY 8 , 20 THE INFORMATION REQUIRED BY LAW AND REVISED , 20 REVISED , 20 BY THE DIVISION OF ENVIRONMENTAL PROTECTION. No. 677 STATE OF OPERATORS WELL NO. 202 P.S. 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WW-6A1 (5/13)

Operator's Well No. _ D'Annunzio #202

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 –

- 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:

Lease Name or Number

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Dereile	
See attached			Royalty	Book/Page

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:	213	
By:	Dave Boyer	_
Its:	Director of Geology & Development Planning	-

Page 1 of 8



WW6A-1	D'ANNUNZIO 202					
TAG	PARCEL	LEASE	LESSOR	LESSEE	BK / PG	GROSS AC ROYALTY
А	47-033-03-327-17	4630	MAUD LEE QUINN	PDC MOUNTAINEER LLC	1456/1018	239.01 +12.5%
			PDC MOUNTAINEER, LLC	RIVER RIDGE ENERGY, LLC	59/1263	
А	47-033-03-327-17	4632	A & B MANAGEMENT LLC	PDC MOUNTAINEER LLC	1455/173	239.01 +12.5%
			PDC MOUNTAINEER, LLC	RIVER RIDGE ENERGY, LLC	59/1263	
А	47-033-03-327-17	4636	REBECCA ANN JARVIS	XTO ENERGY INC	1438/1202	199.03 +12.5%
			XTO ENERGY INC	PDC MOUNTAINEER LLC	1479/880	
			PDC MOUNTAINEER, LLC	RIVER RIDGE ENERGY, LLC	59/1263	
А	47-033-03-327-17	3417	LEMUEL D AND MARY JARVIS ET UX	CLARENCE C MUTSCHELKNAUS	1146/1146	73.33 +12.5%
			CLARENCE MUTSHELKNAUS	SWIFT ENERGY COMPANY	1148/341	
			SWIFT ENERGY COMPANY	PETROLEUM DEVELOPMENT CORP	1167/141	
			PETROLEUM DEVELOPMENT CORP	PDM MOUNTAINEER LLC	1440/364	
			PDC MOUNTAINEER, LLC	RIVER RIDGE ENERGY LLC	59/1263	
А	47-033-03-327-17	3418	PORTER M JARVIS TRUSTEE	CLARENCE C MUTSCHELKNAUS	1146/1148	73.33 +12.5%
			CLARENCE MUTSHELKNAUS	SWIFT ENERGY COMPANY	1148/341	
			SWIFT ENERGY COMPANY	PETROLEUM DEVELOPMENT CORP	1167/141	
			PETROLEUM DEVELOPMENT CORP	PDM MOUNTAINEER LLC	1440/364	
			PDC MOUNTAINEER, LLC	RIVER RIDGE ENERGY LLC	59/1263	
В	47-033-01-347-8	9264	ROGER & BETTY PHILLIPS	EDWARD MULLOOLY	1343/59	93.35 +12.5%
			EDWARD MULLOOLY	MOUNTAIN V OIL & GAS INC	1357/1170	
			MOUNTAIN V OIL & GAS INC	NORTH COAST ENERGY EASTERN INC	1394/756	
			MOUNTAIN V OIL & GAS INC (CORRECTIVE)	NORTH COAST ENERGY EASTERN INC	1405/1169	
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	
				EXCO PRODUCTION COMPANY (WV) LLC NAME		
			EXCO RESOURCES (WV) LLC	CHANGE	NOT OF RECORD	
				ANTERO RESOURCES APPALACHIAN		
			EXCO PRODUCTION COMPANY (WV) LLC ET AL	CORPORATION	1503/565	
				ANTERO RESOURCES CORPORATION NAME		
			ANTERO RESOURCES APPALACHIAN CORPORATION	CHANGE	NOT OF RECORD	
			ANTERO RESOURCES CORPORATION	MAR KEY LLC	1782/1046	
C&D	47-033-01-347-10					
	47-033-01-347-34	7772	ORION LEON NUTTER II ET UX	MOUNTAIN V OIL & GAS INC	1364/489	107 +12.5%
			MOUNTAIN V OIL & GAS INC (CORRECTIVE)	NORTH COAST ENERGY EASTERN INC	1405/1169	
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	

			EXCO RESOURCES (WV) LLC EXCO PRODUCTION COMPANY (WV) LLC ET AL	EXCO PRODUCTION COMPANY (WV) LLC NAME CHANGE ANTERO RESOURCES APPALACHIAN CORPORATION	NOT OF RECORD 1503/565	
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C & D	47-033-01-347-10 47-033-01-347-34	7773	CLAYTON AND BETTY NUTTER	MOUNTAIN V OIL & GAS INC	1369/550	107 +12.5%
	47 000 01 047 04	///0	MOUNTAIN V OIL & GAS INC (CORRECTIVE)	NORTH COAST ENERGY EASTERN INC	1405/1169	107 + 12.370
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	
				EXCO PRODUCTION COMPANY (WV) LLC NAME	1440/721	
			EXCO RESOURCES (WV) LLC	CHANGE	NOT OF RECORD	
			EXCORESOURCES (WV) LLC	ANTERO RESOURCES APPALACHIAN	NOT OF RECORD	
			EXCO PRODUCTION COMPANY (WV) LLC ET AL	CORPORATION	1503/565	
				ANTERO RESOURCES CORPORATION NAME	1303/303	
			ANTERO RESOURCES APPALACHIAN CORPORATION	CHANGE	NOT OF RECORD	
			ANTERO RESOURCES CORPORATION	MAR KEY LLC	1782/1046	
	47-033-01-347-10				1702/1040	
C & D	47-033-01-347-34	7774	LARRY AND LANA ROBEY	MOUNTAIN V OIL & GAS INC	1369/552	107 +12.5%
	47-055-01-547-54	///4	MOUNTAIN V OIL & GAS INC (CORRECTIVE)	NORTH COAST ENERGY EASTERN INC	1405/1169	107 +12.3%
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	
			EXCORESOURCES (WV) INC ET AL	EXCO PRODUCTION COMPANY (WV) LLC NAME	1440//21	
			EXCO RESOURCES (WV) LLC	CHANGE	NOT OF RECORD	
				ANTERO RESOURCES APPALACHIAN	NOT OF RECORD	
			EXCO PRODUCTION COMPANY (WV) LLC ET AL	CORPORATION	1503/565	
			EXCOPRODUCTION COMPANY (WW) LLC ET AL	ANTERO RESOURCES CORPORATION NAME	1303/303	
			ANTERO RESOURCES APPALACHIAN CORPORATION	CHANGE	NOT OF RECORD	
			ANTERO RESOURCES CORPORATION	MAR KEY LLC	1782/1046	
F	47-033-01-347-33	9262	KURT SKASIK	MOUNTAIN V OIL & GAS INC	1363/544	93.35 +12.5%
	4, 000 01 0 4 , 00	5202	MOUNTAIN V OIL & GAS INC	NORTH COAST ENERGY EASTERN INC	1394/756	00.00 12.070
			MOUNTAIN V OIL & GAS INC (CORRECTIVE)	NORTH COAST ENERGY EASTERN INC	1405/1169	
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	
I					1,70//21	

E	47-033-01-347-33	9263	EXCO RESOURCES (WV) LLC EXCO PRODUCTION COMPANY (WV) LLC ET AL ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION J CARL PALMER MOUNTAIN V OIL & GAS INC MOUNTAIN V OIL & GAS INC (CORRECTIVE) NORTH COAST ENERGY EASTERN INC EXCO NORTH COAST ENERGY EASTERN INC	EXCO PRODUCTION COMPANY (WV) LLC NAME CHANGE ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION NAME CHANGE MAR KEY LLC MOUNTAIN V OIL & GAS INC NORTH COAST ENERGY EASTERN INC NORTH COAST ENERGY EASTERN INC EXCO NORTH COAST ENERGY EASTERN INC EXCO NORTH COAST ENERGY EASTERN INC	NOT OF RECORD 1512/1090 NOT OF RECORD 1782/1046 1363/540 1394/756 1405/1169 59/806 NOT OF RECORD	93.35 +12.5%
			EXCONORTH COAST ENERGY EASTERN INC EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) NAME CHANGE EXCO RESOURCES (WV) LLC ET AL	1448/721	
				EXCO PRODUCTION COMPANY (WV) LLC NAME	1770//21	
			EXCO RESOURCES (WV) LLC	CHANGE	NOT OF RECORD	
				ANTERO RESOURCES APPALACHIAN		
			EXCO PRODUCTION COMPANY (WV) LLC ET AL	CORPORATION	1512/1090	
				ANTERO RESOURCES CORPORATION NAME		
			ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION	CHANGE MAR KEY LLC	NOT OF RECORD 1782/1046	
Е	47-033-01-347-33	9275	WILLIAM M KESTER SR BY AIF	MAR NEY LLC MOUNTAIN V OIL & GAS INC	1366/27	93.35 +12.5%
E	47-033-01-347-33	9275	MOUNTAIN V OIL & GAS INC	NORTH COAST ENERGY EASTERN INC	1394/756	93.35 +12.5%
			MOUNTAIN V OIL & GAS INC	NORTH COAST ENERGY EASTERN INC	1405/1169	
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	
				EXCO PRODUCTION COMPANY (WV) LLC NAME		
			EXCO RESOURCES (WV) LLC	CHANGE	NOT OF RECORD	
				ANTERO RESOURCES APPALACHIAN		
			EXCO PRODUCTION COMPANY (WV) LLC ET AL	CORPORATION	1512/1090	
				ANTERO RESOURCES CORPORATION NAME		
			ANTERO RESOURCES APPALACHIAN CORPORATION	CHANGE	NOT OF RECORD	
F	47 000 01 047 00	0004	ANTERO RESOURCES CORPORATION		1782/1046	
E	47-033-01-347-33	9284		MOUNTAIN V OIL & GAS INC	1363/542	93.35 +12.5%
			MOUNTAIN V OIL & GAS INC MOUNTAIN V OIL & GAS INC (CORRECTIVE)	NORTH COAST ENERGY EASTERN INC NORTH COAST ENERGY EASTERN INC	1394/756 1405/1169	
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	1405/1169 59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	
					1110//21	

			EXCO RESOURCES (WV) LLC	EXCO PRODUCTION COMPANY (WV) LLC NAME CHANGE ANTERO RESOURCES APPALACHIAN	NOT OF RECORD	
			EXCO PRODUCTION COMPANY (WV) LLC ET AL	CORPORATION ANTERO RESOURCES CORPORATION NAME	1512/1090	
			ANTERO RESOURCES APPALACHIAN CORPORATION	CHANGE	NOT OF RECORD	
			ANTERO RESOURCES CORPORATION	MAR KEY LLC	1782/1046	
Е	47-033-01-347-33	9285	MARK SKASIK	MOUNTAIN V OIL & GAS INC	1364/485	93.35 +12.5%
			MOUNTAIN V OIL & GAS INC	NORTH COAST ENERGY EASTERN INC	1394/756	
			MOUNTAIN V OIL & GAS INC (CORRECTIVE)	NORTH COAST ENERGY EASTERN INC	1405/1169	
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	
				EXCO PRODUCTION COMPANY (WV) LLC NAME		
			EXCO RESOURCES (WV) LLC	CHANGE	NOT OF RECORD	
				ANTERO RESOURCES APPALACHIAN		
			EXCO PRODUCTION COMPANY (WV) LLC ET AL	CORPORATION	1512/1090	
				ANTERO RESOURCES CORPORATION NAME		
			ANTERO RESOURCES APPALACHIAN CORPORATION	CHANGE	NOT OF RECORD	
			ANTERO RESOURCES CORPORATION	MAR KEY LLC	1782/1046	
Е	47-033-01-347-33	9286	ORIAN & MARY SUE NUTTER	MOUNTAIN V OIL & GAS INC	1364/487	93.35 +12.5%
			MOUNTAIN V OIL & GAS INC	NORTH COAST ENERGY EASTERN INC	1394/756	
			MOUNTAIN V OIL & GAS INC (CORRECTIVE)	NORTH COAST ENERGY EASTERN INC	1405/1169	
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	
				EXCO PRODUCTION COMPANY (WV) LLC NAME		
			EXCO RESOURCES (WV) LLC	CHANGE	NOT OF RECORD	
				ANTERO RESOURCES APPALACHIAN		
			EXCO PRODUCTION COMPANY (WV) LLC ET AL	CORPORATION	1512/1090	
				ANTERO RESOURCES CORPORATION NAME		
			ANTERO RESOURCES APPALACHIAN CORPORATION	CHANGE	NOT OF RECORD	
			ANTERO RESOURCES CORPORATION	MAR KEY LLC	1782/1046	
Е	47-033-01-347-33	9287	ELIZABETH A & ROBERT L DODD	MOUNTAIN V OIL & GAS INC	1365/713	93.35 +12.5%
			MOUNTAIN V OIL & GAS INC	NORTH COAST ENERGY EASTERN INC	1394/756	
			MOUNTAIN V OIL & GAS INC (CORRECTIVE)	NORTH COAST ENERGY EASTERN INC	1405/1169	
			NORTH COAST ENERGY EASTERN INC	EXCO NORTH COAST ENERGY EASTERN INC	59/806	
			EXCO NORTH COAST ENERGY EASTERN INC	EXCO RESOURCES (WV) NAME CHANGE	NOT OF RECORD	
			EXCO RESOURCES (WV) INC ET AL	EXCO RESOURCES (WV) LLC ET AL	1448/721	

			EXCO RESOURCES (WV) LLC EXCO PRODUCTION COMPANY (WV) LLC ET AL ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION	EXCO PRODUCTION COMPANY (WV) LLC NAME CHANGE ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION NAME CHANGE MAR KEY LLC	NOT OF RECORD 1512/1090 NOT OF RECORD 1782/1046	
F	47-033-01-347-35	7775	PAUL S HORNOR PPG INDUSTRIES INC WHITE SHIELD OIL AND GAS CORP PARTNERSHIP PROPERTIES INC EASTERN AMERICAN ENERGY CORP ENERGY CORPORATION OF AMERICA ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION	PPG INDUSTRIES INC WHITE SHIELD OIL AND GAS CORP PARTNERSHIP PROPERTIES INC EASTERN AMERICAN ENERGY CORP ENERGY CORPORATION OF AMERICA ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION NAME CHANGE RIVER RIDGE ENERGY LLC	954/739 1005/298 1019/416 1124/449 59/832 1495/314 154/620 1586/1196	465.06 +12.5%
G	47-033-01-347-89	N/A	ROYALTY OWNER SUBJECT TO UNITIZATION FILING	N/A	N/A	N/A N/A
G & I	47-033-01-347-89 47-033-01-367-25 47-033-01-347-89	9204	PATRICIA THOMAS	MAR KEY LLC	1781/554	96.25 +12.5%
G & I	47-033-01-367-25 47-033-01-347-89	9205	THERESA HATHAWAY	MAR KEY LLC	1782/19	96.25 +12.5%
G&I	47-033-01-367-25 47-033-01-347-89	9214	CAROL WILFORD	MAR KEY LLC	1782/21	96.25 +12.5%
G&I	47-033-01-367-25 47-033-01-347-89	9221	JAMES ISRAEL	MAR KEY LLC	1782/1348	96.25 +12.5%
G & I G & I	47-033-01-367-25 47-033-01-347-89	9225	TERRY BONNER	MAR KEY LLC	1782/1337	96.25 +12.5%
	47-033-01-367-25 47-033-01-347-89	9233	MARIANNE BAKER	MAR KEY LLC	1783/463	96.25 +12.5%
G&I	47-033-01-367-25 47-033-01-347-89	9247	KATHERINE L MCCALL	MAR KEY LLC	1784/733	96.25 +12.5%
G & I	47-033-01-367-25 47-033-01-347-89	9258	ROBERT ISRAEL	MAR KEY LLC	PENDING	96.25 +12.5%
<u> </u>						
G & I G & I	47-033-01-367-25 47-033-01-347-89	9288	JAMES KIRK KIBLER	MAR KEY LLC	1785/926	96.25 +12.5%

G & I	47-033-01-347-89	9299			1705/1004	96.25 +12.5%
	47-033-01-367-25 47-033-01-347-89	9299	BARD E HICKMAN	MAR KEY LLC	1785/1024	90.25 +12.5%
G & I	47-033-01-367-25	9300	JOYCE LINE HAYNES	MAR KEY LLC	1785/1028	96.25 +12.5%
Н	47-033-01-367-37	8695	MARY VIRGINIA THORPE	WACO OIL AND GAS CO INC	1343/335	160 +12.5%
			WACO OIL & GAS CO	LINN ENERGY HOLDINGS LLC	1358/110	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	
н	47-033-01-367-37	8696	ELIZABETH ANN KETTERING	WACO OIL AND GAS CO INC	1343/295	160 +12.5%
			WACO OIL & GAS CO	LINN ENERGY HOLDINGS LLC	1358/110	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	
н	47-033-01-367-37	8697	BUCKNER W HORNOR	WACO OIL AND GAS CO INC	1343/293	160 +12.5%
			WACO OIL & GAS CO	LINN ENERGY HOLDINGS LLC	1358/110	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	
н	47-033-01-367-37	8698	PAUL ALLEN HORNOR JR	WACO OIL AND GAS CO INC	1343/262	160 +12.5%
			WACO OIL & GAS CO	LINN ENERGY HOLDINGS LLC	1358/110	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	
н	47-033-01-367-37	8699	JAMES Y HORNOR	WACO OIL AND GAS CO INC	1342/484	160 +12.5%
			WACO OIL & GAS CO	LINN ENERGY HOLDINGS LLC	1358/110	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	
J	47-033-01-367-90	N/A	ROYALTY OWNER SUBJECT TO UNITIZATION FILING	N/A	N/A	N/A N//
Κ	47-033-01-367-47	9010	SAMUEL W STOUT	MAR KEY LLC	1751/1333	179 +12.5%
К	47-033-01-367-47	9230	MATTHEW MAY	MAR KEY LLC	1783/452	179 +12.5%
К	47-033-01-367-47	N/A	ROYALTY OWNER SUBJECT TO UNITIZATION FILING	N/A	N/A	N/A N/
L	47-033-11-367-58	8704	ELIZABETH C STOUT	WACO OIL AND GAS CO INC		50.45 +12.5%
			WACO OIL & GAS CO	LINN ENERGY HOLDINGS LLC	1358/110	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	

L	47-033-11-367-58	8705	DIANNE DOUGLAS ET VIR	LINN ENERGY HOLDINGS LLC		50.45 +12.5%
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	
L	47-033-11-367-58	8706	BETH ALLGOOD ET VIR	LINN ENERGY HOLDINGS LLC		50.45 +12.5%
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	
L	47-033-11-367-58	8707	JAMES MALTBA	LINN ENERGY HOLDINGS LLC		50.45 +12.5%
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	
L	47-033-11-367-58	8708	SHARON MCCOY ET VIR	LINN ENERGY HOLDINGS LLC		50.45 +12.5%
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	
М	47-033-11-367-59.5	8710	ROBERT W FARIS ET UX	WACO OIL AND GAS CO INC	1340/366	32 +12.5%
			WACO OIL & GAS CO	LINN ENERGY HOLDINGS LLC	1358/110	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1419/959	
			LINN ENERGY HOLDINGS LLC	XTO ENERGY INC	1459/109	
			XTO ENERGY INC	MAR KEY LLC	1628/1031	

* Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Commission

Agreement to Drill, Complete and Operate Oil & Gas Wells

This Agreement to Drill, Complete and Operate Oil & Gas Wells (this "Agreement"), by and among Arsenal Resources LLC, a West Virginia limited liability company ("Arsenal"), River Ridge Energy, LLC, a Delaware limited liability company ("River Ridge"), and River Ridge Energy, Holdings, LLC, a Delaware limited liability company ("River Ridge Holdings"), is effective as of March 1, 2017. (the "Effective Date") and sets forth the terms pursuant to which Arsenal will drill, complete and operate the Wells (as defined below) on behalf of River Ridge and River Ridge Holdings. Arsenal, River Ridge, and River Ridge Holdings are each a "Party" and are collectively the "Parties". In consideration of the foregoing and the respective agreements hereinafter set forth and the mutual benefits to be derived therefrom, the Parties, intending to be legally bound, hereby agree as follows:

- 1. Term: This Agreement is effective from the Effective Date until terminated by Arsenal on the one hand or River Ridge and River Ridge Holdings on the other hand with 30 days' written notice to the other Party or Parties, as applicable (the "Term").
- 2. Authorization to Operate: River Ridge and River Holdings authorize Arsenal to undertake and perform, on River Ridge and River Ridge Holdings behalf, all operations, including without limitation permit applications, well pad preparation, drilling and completing wells, and marketing gas, oil and other hydrocarbons therefrom with respect to all oil and gas wells to be drilled on oil and gas leasehold acreage held by River Ridge or River Ridge Holdings. River Ridge, River Ridge Holdings and Arsenal are affiliates with a common parent. Arsenal was formed to operate oil and gas leasehold acreage held by River Ridge, River Ridge Holdings and certain other affiliates. Arsenal agrees that it shall, in a good and workmanlike manner and in accordance with industry standards as they prevail in the area, drill, complete and operate oil and gas wells on leasehold acreage owned by River Ridge or River Ridge Holdings from time to time as directed by River Ridge or River Ridge Holdings from time to time as directed by River Ridge or River Ridge or River Ridge (collectively, the "Wells").
- 3. No Third Party Beneficiary: This Agreement is for the benefit of the Parties and is not for the benefit of any third party.
- 4. Counterparts: This Agreement may be simultaneously executed in several counterparts and via facsimile or similar electronic transmittal, each of which shall be deemed to be an original and taken together shall constitute one and the same instrument.

[Signature Page Follows]

IN WITNESS WHEREOF, Arsenal, River Ridge, and River Ridge Holdings have caused their duly authorized representatives to execute this Agreement as of the Effective Date.

ARSENAL RESOURCES LLC

By: Name: Joel E. Symonds

Title: Vice President - Land

RIVER RIDGE ENERGY, LLC

By: Name: Joel E. Symonds

Title: Vice President - Land

RIVER RIDGE HOLDINGS, LLC

By: Name: Joel E. Symonds

Title: Vice President - Land



People Powered. Asset Strong. 4 5

January 21, 2025

West Virginia Department of Environmental Protection Office of Oil and Gas ATTN: Taylor Brewer 601 57th Street SE Charleston, WV 25304 RECEIVED Office of Oil and Gas

JAN 2 7 2025

WV Department of Environmental Protection

RE: D'Annunzio #202, API # 47-033-06045 Expedited Modification due to well extension

Dear Mr. Brewer,

Enclosed please find the permit modification application for D'Annunzio #202 (API# 47-033-06045). I have enclosed a USB flash drive containing the E&S Plan, Site Safety Plan, and the MSDS.

The wellhead location remains the same as the current permit. The well is being extended in lateral length. This well was originally permitted to 7,250 feet. The modification request is to increase the total measured depth to 21,890 feet. Additional leases under the extended section are shown on the revised WW-6A1.

Should you have any questions or need any additional information, please feel free to contact me by phone or email.

Sincerely,

Dave Boyer Director of Geology & Development Planning (c) 724-759-0088 (e) dboyer@arsenalresources.com

6031 Wallace Road Ext, Suite 101 Wexford, PA 15090 P: 724-940-1100 F: 800-428-0981 www.arsenalresources.com

