

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

Friday, November 15, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit approval for BISHOP 1

47-033-00290-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless 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: BISHOP 1

Farm Name: WILLIAM R & PRISCILLA D

U.S. WELL NUMBER: 47-033-00290-00-00

Vertical Plugging
Date Issued: 11/15/2019

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1)Date	, 20	
2)Operator's	·	
Well No. RL Bisho	p #1	
3) API Well No.	47-033 - 00290	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	OFFICE OF	OIL AND GAS	
	APPLICATION FOR A PERM	IT TO PLUG AND AR	ANDON
4)	Well Type: Oil/ Gas x _/ Liquid	l injection/	Waste disposal /
	(If "Gas, Production or Und	derground storage) Deep/ Shallow×
5)	Location: Elevation 1118'	Watershed Gnatty (Creek
	District Elk	***************************************	Quadrangle Berlin 7.5'
6)	Well Operator Antero Resources Corporation	7)Designated Ager	nt CT Corporation System - Dianna Stamper
	Address 1615 Wynkoop Street	•	55 5400 D Big Tyler Road
	Denver, CO 80202		Charleston, WV 25313
8)	Oil and Gas Inspector to be notified	9)Plugging Contra	actor
	Name Sam Ward	-	Antero will plug well
	Address 601 57th Street SE	Address	
	Charleston, WV 25304	*****	
			RECEIVED Office of Oil and Gas
			OCT 17 2019
			WV Department of
otii ork	fication must be given to the district oil can commence.	and gas inspecto	Environmental Protestion r 24 hours before permitted
ork	order approved by inspector	Worder	Date 10/15/2019

RL Bishop #1 Harrison County, WV API #47-033-00290



Antero Resources 1615 Wynkoop St. Denver, CO 80202 Office: 303.357.7319

Office: 303.357.7310 Fax: 303.357.7315

Objective: Plug and Abandon Wellbore.

Pipe Schedule:

Conductor @ 404' – 13-10"

Intermediate Casing @ 1,176' – 8 5/8"

Production Casing @ 2,030' – 7"

Hookwell Packer @ 2,339' – 4.5"

MAY BE 2445' 2" TUBING IN WELL THAT WILL NEED PULLED.

Water Zone

Fresh Water: 60'
 Fresh Water: 895'

Oil and Gas Zones:

1. Fifth: 2,380' - 2,398'; Gas @ 2,380'-2390'

ELEU. 1117'

2. Bayard: 2,437' - 2,446'; Gas @ 2,432'-2,436'

Procedure:

1. Check and record all casing/annular pressures into Wellview.

2. Coordinate and schedule casing jacks.

3. Notify WVDEP prior to commencing work, for plug witnessing (Harrison County Inspector)

4. Move in and rig up flat tank and frac tank (No pits will be utilized).

5. Move in rig up service unit.

6. Rig up JU head and test - check and report surface pressure including bradenhead pressure

7. Kill well.

8. RU wireline and lubricator.

9. Make gauge ring run to TD = 2,339'. Pull out of hole. Note fluid depth tagged.

DEPTH OF 41/2 16 2339

 Trip in hole and pull 4.5" Hookwell Packer set @ 2,369'. Will evaluate if unable to pull packer out of hole.

11. Trip in hole with tubing to TD @ 2,445'

12. MIRU cement services. Mix and pump cement plug (Class A cement + 2% CaCl2, 20% excess included yield =1.18 ft³/sk, WR=5.2 gal/sk) Plug should cover from 2,445'-2,030'.

a. Displace to balance plug

b. Slowly pull out of cement plug and LD 415' of tubing.

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Office of Oil and Gas

c. Reverse circulate tubing clear of cement

d. Wait on cement 8hrs.

e. RIH w/ tubing and tag TOC at 2,030'. Ses of 7"

OCT 17 2019

13. MIRU logging crew

14. Load Hole with 6% gel

WV Department of Environmental Protection

15. Rig up and TIH with cement bond log tool to evaluate cement behind 7" casing. Estimate the amount of 7" casing to be recovered.

16. If needed, RIH with wireline and free point tool above top of cement (in 7" casing).

a. Chemical or mechanical cut at xxxx' (depth as determined via freepoint and CBL)

b. POOH and LD 7" casing.

10/15/19

- 17. Determine if cement plugs can be pumped down 7" casing after the cut and while laying down the casing. If so, pump the following plugs from surface down casing.
- 18. If pumping plug down 7" casing, pump a 300' elevation plug using (Class A cement + 2% CaCl2, 20% excess included yield =1.18 ft³/sk, WR=5.2 gal/sk). Plug should cover 300' above cut casing.
 - a. Trip out of hole and wait on cement
 - b. Tag TOC 400' above 7" casing cut.
- 19. If cement plug is required 200' above casing cut and 200' below casing cut, 2-3/8" tubing will have to be run back in the hole after 7" casing is laid down.
- 20. Pump a 400' elevation plug using 87 sks (Class A cement + 2% CaCl2, 20% excess included yield =1.18 ft³/sk, WR=5.2 gal/sk). Plug should cover 200' above cut casing and 200' below cut casing.
 - a. Trip out of hole and wait on cement
- 21. Tag TOC 200' above 7" casing cut.
- 22. Mix and pump sacks from 504'-3' (Class A cement + 2% CaCl2, 20% excess included yield =1.18 ft³/sk, WR=5.2 gal/sk) Plug should cover from 504' to elevation cut.
 - a. TOOH
 - b. Wait on cement 8 hrs.
- 23. Cut off casing at 3' below ground level.
- 24. Weld marker plate with API No.: 47-033-00290-Per WV CSR 35-4-5.5

5 DW 10/15/2019

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Office of Oil and Gas

OCT 17 2019

WV Department of Environmental Protection FORM 1V-56WC

STATE OF WEST VIRGINIA

Operator's R. L. Bishop No 1.

DEPARTMENT OF MINES, OIL AND GAS DIVISION

API Vell
No. 47 033 0290

State County Portifie

WELL CLASSIFICATION FORM

STRIPFER CAS WELL NGPA Section 108

Leon D. Harpold DESIGNATED AGENT_ Rt. 3, Box 260-C ADDRESS Weston, W.Va. 26452 St. Clair Oil Co WELL OPERATOR . 1113 LOCATION: Elevation ADDRESS 219 East Main Street Rooting Creek Watershed St. Clairsville, Ohio 43950 Dist. Elk County Harrison 5969 B GAS PURCHASER Equitable Gas Company Gas Purchase Contract No. ADDRESS 420 Boulevard of the Allies Meter Chart Code 2-43-25-152801-1 Pittsburgh, Pa. 15219 08-01-75 Date of Contract

Provide a complete inventory of the lease and production equipment used for the well for the previous 24 months or, if less than 24 months, the period the well has been in production. Include a complete list of equipment or processes used in connection with recognized enhanced recovery techniques during completion or production. (Attach separate sheets, if necessary.)

404 feet of 10 inch casing
1176 feet of 8 5/8 casing
2030 feet of 7 inch casing
2369 feet of 4 1/2 inch casing
2445 feet of 2 inch tubing
Line Pipe
Hookwall Packer
Surface fittings, valves, etc.
Gas Compressor and related controls

List all records reasonably available to you which contain information relevant to a deturmination of eligibility (including production records, BGO Tax Records and royalty payment records) and indicate the location of such records:

The following records are located at the company offices at 219 East Main Street, St. Clairsville, Ohio:

Production records as received from Equitable Gas Company Annual Business & Occupation Tax Returns County Personal Property Tax Returns Royalty Records PORM IV-36WG (Poverse) (17-73)

Describe the search made of any records listed aboves ...

All records listed are based on the production records as received from Equitable Gas Company and have been compared.

Are you aware of any other information which would tend to be inconsistent with the information appetited above? Yes No. If yes, indicate the type and source of the information.

AFPIDAVIT

I. Patrick H. Hersey , having been first sworn according to law state that
I have caused to be made a diligent search of those records hereinbefore indicated in the runner
herein described, that the information contained in this document is true and accurate and that
on the basis of the records and examinations hereinbefore described, and to the best of my information
knowledge and belief, the well for which this certification is sought qualifies as a scripper well.

Street J. Herry

STATE OF MESCHAROCKER. Ohio. COUNTY OF Belmont .. TO WIT!

1. <u>Mailetta Anné filatelli</u>, a Notary Public in and for the state and county aforesaid, so certify that <u>Patrick H. Hersey</u>, whose name is signed to the writing above, bearing date the <u>27 day of fibring</u>. 1974, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this <u>27 day of fibring</u>, 1979.

Hy term of office expires on the <u>10 day of fibrings</u>, 1957.

Barbara Anne Lucarelli

[NOTARIAL SEAL]

: * 115 . 411	PARTE: NOV 891979	47-033-002908
i (lita (CI)	interator: St. Clair Oil Co.	017864
	T PUNCHASER: EQUITABLE GAS COMPAUL	005939
•		
OTHE		CONTRACTOR OF STREET
	Department of Minos, Oil & Gas Division Qualifican Section 188, player	wall
	Department of Minos, Oil & Gas Division L DETERMINATION FILE NUMBER	n End
790	2 28-108-033-0290	
	ove file Number on all Communications ling to Determination of this Well'	
	CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS HISSING	•
TTEN NO		•
ITEM NO.	ERC-121 / Items not completed - Line No.	
•		•
	7-1 - Agent LEON D. HARPOLD	**
3 17	7-2 - Well Permit	
	7-6 - Well Plat	
	7-35- Well Record Drilling Deepening YES	
	-36- Gas-Oil Test: Gas Only Vas Oil Produced? No Ratio	2
	7-39- Annual Production 12 Me yours	6
8 17	-40- 90 day Production 91 (IV 39) Days off Line: -0-	
9 IV	-48- Application for Certification. Complete? YES	fidavit
10 - 17	1V Form #51 - 52 - 53 - 54 - 55 - 56 - 57 - 58. Complete	Signed
18 - 28	Other: Survey logs Geological Charts Structu	re Yap
•	1:4000 Map Well Tabulations Gas Analyses	
(5)	Date George 10-11-63 Deepened 9-4-75	
(5)	Production Depth: 2380-90' 2432-36'	
(5)	Production Formation: 5# 7 BAYARD	
(5)	Final Open House 194 MCF/D	
(5)	Final Rock Presure:	
(6)	Other Gas Test:	
(7)	Avg. Daily Gas from Amoual Production: 303 5.7 Mcs/h	
(R)	Avg. Daily Gas from 90-day endir. 2/1-120 days /91 2 9.3 MCF	Ь
(ع). `	NI A	ron Daily Repo
(5)	Oil Production: No Prom Completion Report	
(10-17)	Does lease inventory indicate enhanced recovery being done: No	
(10-17)	le affidavit signed?	•. :
Does off	clai well record with the Department confirm the submitted infor-	mation! YES
	al Information Does computer program confirm?	
	minerion Objected tolBy Whom?	
	Q.R.	P
		• •

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STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELL& DIVISION



OIL & GAS DIVISION DEPT. OF MINES

Permit No. Har-	190-DD				Oil or Gas Well				
Company 57. Cl	sir Oil	Co.	CASING AND . TUBING	USED IN DRILLING	LEFT IN WELL	PACKI	LAS		
Address 2/9 E-M			Size						
Farm Nellie B		•	16			Kind of Pack	er		
Well No.			13			Size of			
District E/K	County /	la versan	814						
•			6%			Depth set			
Drilling commenced			5 3/16			 			
Drilling completed	Total dept	h	3			Perf. top			
Late shot	Depth of shot.		2			Perf. bottom			
Initial open flow	/10ths Wate	er inInch	Liners Used			Perf. top	• • •		
Open flow after tubing	/10ths Merc	. inInch				Perf. bottom			
Volume		Cu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date		
Rock pressure	lbs	hrs.	NAME OF SE	RVICE COMP	ANY				
Oil	bb	ols., 1st 24 hrs.	COAL WAS E	NCOUNTERE	O AT	FE'ST	_inches		
Fresh water		feet	FEET	INC	HES	_FEET	inches		
Salt water	feet	feet	FEET	INC	HES	FEET	inches		
Drillers' Names									
Remarks: Fin	al In	speci	Tien						
	^ .		2.				•		

Release





STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISION DEFT. OF MINES

Oil and Gas Division

Urc	TONCE		WELL	RECORD		RotaryX	Gas X
Quadrangle WES						Recycling_ Water Floor	
Permit No. HAR			0.S.W.	#30139		Disposal	
Farm NELLIE	BISHOP	HEIRS AC	IRSVILLE,	OH Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (water Well No. ONE District ELK		NG CREEK Ele County_HARR	v.1113	Size 20-16 Cond.			HOOKWALL PACKER 4½" x 7"
	tract is own	ned in fee by ROB	ERT L.	9 5/8	404	404	SN696116 JULY 3, 1969
Address 307 0	HIO AVE.	, NUTTER FORT	, WV 2630	01 8 5/8	1,176	1,176	AT 2,003 FT.
Mineral rights a	re owned b	y SAME AS ABO	VE	7	2,030	2,030	-
Λ	ddress	.1		5 1/2		0.200	
Drilling Comme	nced JUL	Y 25, 1975		4 1/2		2,369	
Drilling Comple	110 00	Ocu. ft		3 2		2,445	
		Ocu. ft. per day_		Liners Used		2,443	
		hrs. before test					
Well treatment		2013. 001010 10312	101	Attach copy of	f cementing rec	ord. NON	IE .
-							
		NONE					
Coal was encou	ntered at NONE			eetSalt		_	
Fresh water Producing Sand		D BAYARD		Salt	th 2,380-9		Fcet
Formation	Color	Hard or Soft	Top Fee	t Bottom Feet	Oil, Gas o	r Water	* Remarks
SAND SLATE SAND SLATE	BROWN	SOFT	2,380 2,390 2,430 2,437	2,398 2,430 2,437 2,446	GAS 65,00 01L &	O GAS SHOW	2,380-2,390 2,432-2,436

(over)

* Indicates Electric Log tops in the remarks section.

DRILL DEEPER

Formation	Color	Hard or Soft	Top Feet	Boitom Feet	Oil, Gas or Water * Remarks
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Date		A	JGUS'	T 12	, 19 75
APPROVED.	ST.	CLAIR	OIL	COMPANY	, Owner
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04-11

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION DE. T. OF MINES

Permit No. Har-290-DD			Oil or Ga	s Well
Company ST. Clain Oil Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address 219 EssTAlaineST, ST. Phine wille Ohio	367	SENDER: Complete		Val. 1 11811 1181
Farm Nollie Bishop Heirs	16	The following a	evice b requested	(check one)
Weil No.		Bhow to who	en seed date daller en, date, & eddres	of delivert. 254
District F/K County Harrison	814	Spok to Apo	ONLY TO ADDI	red.
Drilling commenced 7/28/25	6%_	7' . 1 · Billion ()	hem, date, and	
Drilling completed 3/4/35 Total depth 24 46	8	St. Clai	r Oil Comp	my
Date shotDepth of shot	2		rsville, O	nio 43950
Initial open flow/10ths Water inInch	Liners 3 Amo	ISTERED NO.	CENTIFIED NO. 7	HIGURED NO
Open flow after tubing/10ths Merc. inInch		. (Almays abtain s		es de mana escario
VolumeCu. Ft.	CASIL	ATURE OO	0) - 1·e
Rock pressurelbshrs.	NAM E	DATE OF DELIVE	60 (D) (C	TOURS
Oilbbls., 1st 24 hrs.	COAL S. A.	DDRESS (Complet	e enly if requestre)	TES
Fresh waterfeetfeet	. G. U	NAPLE TO DELIV	ER BECAUSE	ES
Salt waterfeetfeet				ES ES
Differs' Names T. Ri FF/2				
Remarks:				
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Small increse in g	۶ ۵ د چ	_		_
Mall NOT Shot	or FIN	cTul-e	d. Bei	pul
Deck / /	11011.	· ·		<i>7</i> 1
8/4/75- DATE		Tai	A N.	Sarreit STRICT WELL INSPECTOR

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 424 . 290			Oil or (KIN	Gas Well	
Company St. Clair DildCas Co.	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKE	ERS
Address A. Chairsville, Ohio	Size	·			•
Farm A. L. LEWIS	16			Kind of Pack	er
Well No. DNE	13	404'		Size of	
District L.K. County Lack SON	814	1176'		Size of	
Drilling commenced 8/12/63	G#8 .	2027'		Depth set	
	5 3/16				
Drilling completedTotal depth_2/00	3			Perf. top	
Date shotDepth of shot	2			Perf. bottom	·
Initial open flow/10ths Water inInch	Liners Used			Perf. top Perf. bottom	
Open flow after tubing/10ths Merc. inInch				7	:
VolumeCu. Ft.	CASING CEMI	ENTED	SIZE	No. FT	Date
Rock pressurelbshrs.	R .	RVICE COMP.			
Oilbbls., 1st 24 hrs.	COAL WAS E	ncounterei	OW I XEY	PEET LOG	_inches
60-874-1812-2200 Fresh waterfeetfeet			•	_FEET	
Sait waterfeetfeet	FEE	rinc	HES	FEET	_inches
Drillers' Names NEON - D - Har police	1 - Lou	still L	EMMO	NS	
			456	189101123	· · · · · · · · · · · · · · · · · · ·
Remarks:	_			~ 10p3 =	
Remarks:	IF DI	L G.	- ER RE	at 1900 CEIVED CEIVED lest Virginia ept of Mines	
•			A CONTRACTOR	SWESSING	
Dat 4, 1963	•	(i)	Chim	Mola	su
DATE				DISTRICT WELL	INSPECTOR

DEPARTMENT OF MINES OIL AND GAS DIVISION 5

Casing and Cas	,	ton S. E.		WELL	RECORD		t so liG	Gaa Wa	u Gas
March Act Ac	Permit No. runk	290							(KIND)
Size	210					Used in Drilling			
	Was comme					 			Hone
Well No. One Elev 1-113 16			Creek		Size	1			
Address Mutter Fork May Address Mutter Fork May Address Address Address Mutter Fork May Address Addr				Elev_1,113'	16	-		Kind	l of Packer
Columb C			County Harri	son		104	404		
Mineral rights are owned by Richerd L. Baldon, et al.5	The surface of tra-	ct is owned in	fee by Nellic	Bishop Heirs	107.			Size	0[
Drilling commenced August 12, 1963 2			ddress Nutt	er Fork, W. Va	• XXX	1			
Drilling commenced August 12, 1963 2	Mineral rights are	owned by R	<u>lchard L. Bi</u>	shop, et als	8 8 4	1.176	1,176	Dep	th set
Drilling completed					5 3/16	 			None
Date Shot No	Drilling commence				3	 			
Deep Flow	11-				2			1	
Open Flow	Date Succ	From	То		Liners Used			1	-
Solution	With					 		Peri	. bottom
Volume						<u> </u>			
Rock Pressure 1,060 No	-				Casing Cem	ENTED No	SIZE	_No. F	LDate
No				L					
WELL ACIDIZED No					COAL WAS E	NCOUNTERED	AT	.FEE1	LINCHES
Salt		N -		_DUIS., 15t 24 N15.	FEE	TINCH	ES	_FEE1	INCHES
RESULT AFTER TREATMENT Foct	WELL ACIDIZEI	9							
RESULT AFTER TREATMENT	WELL FRACTUE	RED No							
Solt Water									
Clay Red Rock 15			Hard or	Тор		Oil, Gas	7		Remarks
Seed Rock 15			3011		•	0			
Single S	Clay			-	1	ł		1	
Slate						Maton	601	}	Holo full
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Red Rock 238 255 255 255 255 255 255 255 265 280 343 353 353 357 353 353 357 353 353 353 357 353 353 353 357 353 353 353 353 353 353 357 353	Lime						1	}	
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Sand .700 784 Black Slate .815 .895 Slate .895 .920						l	31.01		
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Sand Slate Lime Slate Sand Slate Sand Slate Lime Slate Lime Red Rock Sand Red Rock Sand	Gantz		1663 1670 1698 1742 1750 1780 1798 2000 2003 2061 2075 2086 2107	1670 1698 1742 1750 1780 1798 2000 2003 2061 2075 2086 2107 2120			
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	Date		October	18	1963
APPROVED_	Harry	, d.	Droc	CH_	Owner
Ву	. 1	Se	cretary-T	reasur	er
			4 FERT 4 S - S		



Select County: (033) Harrison Enter Permit #: 00290 Get Data Reset < Select datatypes: Owner/Completion (Check All) Logs Stratigraphy ✓ Production Plugging Sample

> Table Descriptions
> County Code Translations
> Permit-Numbering Series Contact Information Jsage Notes

WV Geological & Economic Survey:

Well:

County = 33 Permit = 00290

Report Time:

□ Pay/Show/Water

Btm Hole Loc

Disclaimer WVGES Main "Pipeline-Plus" New

API Location Information: View Map

4703300290 Harrison COUNTY PERMIT TAX_DISTRICT QUAD_75 QUAD_15 LAT_DD LON_DD UTME UTMN

Harrison 290 Elk Berlin Weston 39.10521 -80.276221 562580.7 4328701.3 Weston

There is no Bottom Hole Location data for this wel

Completion Information:

4703300290 Owner Information: 4703300290 CMP_DT SUFFIX STATUS SURFACE_OW 10/-/1963 Original Loc unknown 8/-/1975 Drilled Deeper Completed N Bishop Heirs SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FI St. Clair Oil Co. -- unknown

Pay/Show/Water Information:

4703300290 API

10/-/1963 -/-/-8/-/1975 -/-/-

CMP_DT SPUD_DT

ELEV

1113

3 Ground Level 3 Ground Level DATUM

Elk Crk(Ovrfld) Elk Crk(Ovrfld) FIELD

Gordon Benson

Benson Gordon

DEEPEST_FM

DEEPEST_FMT

INITIAL_CLASS

FINAL_CLASS

TYPE

RIG

Development Well Unsuccessful Dry Development Well Development Well Gas

Dry w/ Gas Show unknown Gas Cable Tool

unknown Nat/Open H CMP_MTHD

7**VD** 2380 4400

TMD

4703300290

4703300290 4703300290 API 4703300290 10/-/1963 Water 10/-/1963 Water 8/-/1975 Pay CMP_DT ACTIVITY Unknown Water Vertical Gas Vertical Unknown Water Vertical PRODUCT SECTION DEPTH_TOP FM_TOP DEPTH_BOT FM_BOT G_BEF G_AFT O_BEF O_AFT WATER_QNTY Vertical 895 2436 Bayard 0 0

Production Gas Information: (Volumes in Mcf)

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4703300290 Antero Resources Corporation	4703300290 EXCO Resources (PA), LLC	4703300290 EXCO Resources (PA), LLC	4703300290 EXCO Resources (WV), Inc.	4703300290 EXCO Resources (WV), Inc.					
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ay have reported NGL under Oil

Production Water Information: (Volumes in Gallons)

4703300290	4703300290	API
Antero Resources Corporation	Antero Resources Corporation	PRODUCING_OPERATOR
2018	2016	PRD_YEAR /
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Stratigraphy Information:

1113 Ground Level	7 Reasonable	2430 Reasonable	Well Record	Bayard	4703300290 Drilled Deeper Bayard	4703300290
1113 Ground Level	18 Reasonable	2380 Reasonable	Well Record	Fifth	4703300290 Drilled Deeper Fifth	4703300290
1113 Ground Level	0 Reasonable	2380 Reasonable	Well Record	Fifth	4703300290 Original Loc	4703300290
1113 Ground Level	0 Qstnble Pick		Well Record	Gordon	4703300290 Original Loc	4703300290
	202 Qstnble Pick	1798 Reasonable	Well Record	Gantz	4703300290 Original Loc	4703300290
1113 Ground Level	71 Reasonable	1571 Reasonable	Well Record	Big Injun (Grnbr)	Original Loc	4703300290
1113 Ground Level	87 Reasonable	1484 Reasonable	Well Record	શી Loc Big Lime Well Record	4703300290 Original Loc	4703300290
1113 Ground Level	158 Reasonable	1484 Reasonable	Well Record	Greenbrier Group Well Record	0 Original Loc	4703300290
1113 Ground Level	27 Reasonable	1423 Reasonable	Well Record	Little Lime	0 Original Loc	4703300290
ELEV DATUM	FM_QUALITY DEPTH_TOP DEPTH_QUALITY THICKNESS THICKNESS_QUALITY ELEV DATUM	TY DEPTH_TOP DEPTH_QUALITY	FM_QUALIT	FM	SUFFIX	API

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

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WW-4A	
Revised	6-07

1) Date:			
2) Operator's Well Numbe RL Bishop #1	r		
3) API Well No.: 47 -	033	00290	

STATE OF WEST VIDGINIA

	DE		F ENVIRONMEN		ION, OFFICE OF OIL ID ABANDON A WELL	
۸١	Sunface Own	anda) ta ba aanna	J. E\	(a) Cool Operator		
4)	(a) Name	ner(s) to be served	1: 0) ration (8-23.1,8-38,32-1.2,32-1	(a) Coal Operator Name		
	Address	1615 Wynkoop St	211011 (0-23.1,0-30,32-1.2,32-1	Address		
	Address	Denver, CO 80202		Address		
	(b) Name	PLEASE SEE ATTAC	HMENT	(b) Cool Ow	ner(s) with Declaration	
	Address	TELNOL GLE /////O	INCIAL	- Name	ner(s) with Declaration	
	Audress			Address		
	(c) Name	PLEASE SEE ATTAC	HMENT	Name		
	Address			Address		
	Address			11441055		
C) .	T.,	Sam Ward		(a) Coal Lea	see with Declaration	
	Inspector	601 57th Street SE		(c) Coal Les Name		
	Address	Charleston, WV 25304	1	Address		
	Malaulaana	304-389-7583	F	Address		
	Telephone	304-309-7303		_		
	Take notice accompanyi Protection, v	that under Chapter 22-6 ng documents for a perm with respect to the well a tion, and the plat have b	e any action at all. of the West Virginia Cod it to plug and abandon a virt the location described o	te, the undersigned well of well with the Chief of the in the attached Application or certified mail or deli	perator proposes to file or has file of Office of Oil and Gas, West Virgi on and depicted on the attached For overed by hand to the person(s) na	d this Notice and Application and inia Department of Environmental rm WW-6. Copies of this Notice,
со	MEGAN GR NOTARY PI STATE OF CO NOTARY ID 201 MMISSION EXPIRE	UBLIC LORADO	Well Operator By: Its: Address Telephone	Antero Resources Com Diana Hoff VP of Operations 1615 Wynkoop Street Denver, CO 80202 303-357-7310	poration O. HVI	9/30/19
Su	bscribed and	Expires	2nd	ay of OCTOW	Notary Public	RECEIVED Office of Oil and Gas
Oil	and Gas Priva	cy Notice				

WV Department of

The Office of Oil and Gas processes your personal information, such as name, address and phone number name appart of Surfection regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

SURFACE OWNER WAIVER

Operator's Well Number

RL I	Bishop	#1	
------	--------	----	--

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- The soil erosion and sediment control plan is not adequate or effective;
- Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the

violation...".

Office of Oil and Gas
If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief. OCT 17 2019

VOLUNTARY STATEMENT OF NO OBJECTION

WV. Department of the later of the instructions to surface owners and that I have received copies of a Notice of the later o and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the pla	nned work described in these materials, and I have no
objection to a permit being issued on those materials.	
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION,
ETC	

ETC_		1 1		Antero Resources Corporation	
Miena D. All	Date	9/30/19	Name		
Signature		1	$\mathbf{B}\mathbf{y}$	Diana Hoff	
			Its	VP of Operations	Date
				Signature	Date

WW-9 (4/16)

API Number 47 - 033 - 00290

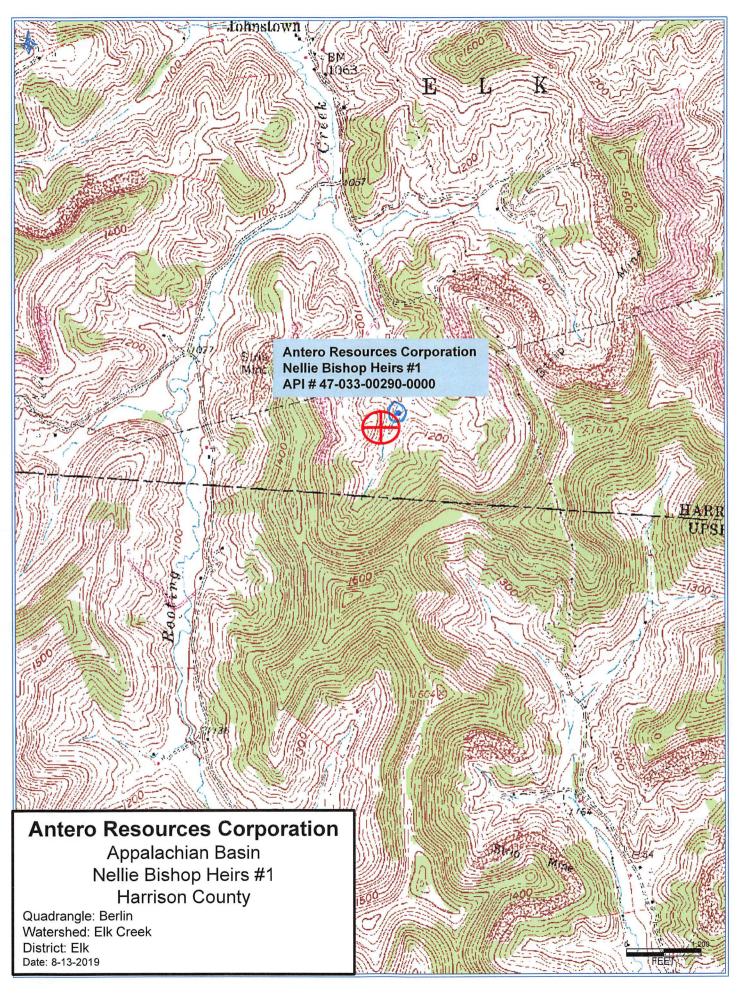
Operator's Well No. RL Bishop #1

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLA	N
Operator Name_ Antero Resources Corporation OP Code 4	94507062
Watershed (HUC 10) Gnatty Creek Quadrangle Berlin 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Y	es No No
Will a pit be used? Yes No 🗸	
If so, please describe anticipated pit waste:	n tanks. Cultings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No If so, what ml.?_	N/A
Proposed Disposal Method For Treated Pit Wastes:	~
WV0109	e provided on Form WR-34 Afill Landfill Permit #SWF-1032-98) Stern Landfill Permit #SWF-1025/ 410
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed off	site and taken to landfill. 10 (15(2019)
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	c
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium?	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and t where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WA' on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environment provisions of the permit are enforceable by law. Violations of any term or condition of the gerlaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with application form and all attachments thereto and that, based on my inquiry of those individual obtaining the information, I believe that the information is true, accurate, and complete. I appenalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Sr. Environmental & Regulatory Manager	tal Protection. I understand that the neral permit and/or other applicable the information submitted on this immediately responsible for
1 m/	10
Subscribed and sworn before me this day of day of 20	<u> </u>
Notary Notary	Public MEGAN GRIFFITH
My commission expires WIMPON 19, 2022	NOTARY PUBLIC STATE OF COLORADO
	NOTARY ID 20184011666 MY COMMISSION EXPIRES MARCH 13, 2022

Form WW-9

Proposed Revegetation Treatment: Acres Disturbed 38.20	acres Prevegetation p	Н	
Lime 2-4 Tons/acre or to correct to p	_{oH} 6.5		
Fertilizer type			
Fertilizer amount 500	lbs/acre		
Mulch 2-3 Tons	s/acre		
<u>Se</u>	eed Mixtures		
Temporary	Perm	Permanent	
Seed Type lbs/acre	Seed Type	lbs/acre	
Annual Ryegrass 40	Crownvetch	10-15	
Field Bromegrass 40	Tall Fescue	30	
<u></u>			
Please reference Table IV-3 on page 7 of the Well #1 Plugging Plan	Please reference Table IV-4A on page	e 7 of the Well #1 Plugging Plan	
	*or type of grass seed reque	ested by surface owner	
*or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land applications. If water from the pit will be land applied, include described.	*or type of grass seed reque ication (unless engineered plans inclu dimensions (L x W x D) of the pit, and	ested by surface owner	
Please reference Table IV-3 on page 7 of the Well #1 Plugging Plan *or type of grass seed requested by surface owner attach: Maps(s) of road, location, pit and proposed area for land application rovided). If water from the pit will be land applied, include decreage, of the land application area. hotocopied section of involved 7.5' topographic sheet.	*or type of grass seed reque ication (unless engineered plans inclu dimensions (L x W x D) of the pit, and	ested by surface owner ding this info have been dimensions (L x W), and	
Please reference Table IV-3 on page 7 of the Well #1 Plugging Plan *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land application rovided). If water from the pit will be land applied, include decreage, of the land application area. hotocopied section of involved 7.5' topographic sheet. lan Approved by: Application Approved by: Application	*or type of grass seed reque ication (unless engineered plans inclu dimensions (L x W x D) of the pit, and	ested by surface owner ding this info have been dimensions (L x W), and	
Please reference Table IV-3 on page 7 of the Well #1 Plugging Plan *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land application rovided). If water from the pit will be land applied, include decreage, of the land application area. hotocopied section of involved 7.5' topographic sheet. lan Approved by: Application Approved by: Application	*or type of grass seed reque ication (unless engineered plans inclu dimensions (L x W x D) of the pit, and	ested by surface owner ding this info have been dimensions (L x W), and	
Please reference Table IV-3 on page 7 of the Well #1 Plugging Plan *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land application rovided). If water from the pit will be land applied, include decreage, of the land application area. hotocopied section of involved 7.5' topographic sheet. lan Approved by: Application Approved by: Application	*or type of grass seed reque ication (unless engineered plans inclu dimensions (L x W x D) of the pit, and	ested by surface owner ding this info have been dimensions (L x W), and RECEIN	
Please reference Table IV-3 on page 7 of the Well #1 Plugging Plan *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land application rovided). If water from the pit will be land applied, include decreage, of the land application area. hotocopied section of involved 7.5' topographic sheet. lan Approved by: Application Approved by: Application	*or type of grass seed reque ication (unless engineered plans inclu dimensions (L x W x D) of the pit, and	ested by surface owner ding this info have been dimensions (L x W), and	



WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-00290 WELL NO.: 1
FARM NAME: RL Bishop
RESPONSIBLE PARTY NAME: Antero Resources Corporation
COUNTY: Harrison DISTRICT: Elk
QUADRANGLE: Berlin
SURFACE OWNER: William R & Priscilla D Suan & Phyllis M Bishop
ROYALTY OWNER: N/A
UTM GPS NORTHING: 4328763.15 m
UTM GPS NORTHING: 4328763. 15 III UTM GPS EASTING: 562762.73 M GPS ELEVATION: 340.7 M
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS × : Post Processed Differential Real-Time Differential × Mapping Grade GPS X : Post Processed Differential Real-Time Differential X
4. Letter size copy of the topography map showing the well location. The undersigned housely contifue this data is correct to the best of my knowledge and
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.
PERMHING AGENT 10.2.2019 WV Department of Permitting Agent 10.2.2019 Not Department of Permitting Agent 10.2019 Not Department of Permitting Agent 10.2019 Not Department 10.20
Signature Title Date