

WR-35 Rev. 8/23/13

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

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Office of Oil and Gas

NOV 2 5 2014

WV Department of Environmental Protection

				Env	lionmen	ital Protection
API 47 033 05714	County Harrison	<u> </u>	District U	nion		
Quad Big Isaac	Pad Name Corde		Field/Pool	Name		1
Farm name Corder, Gerald & Loue	la		Well Nun	nber Trun	nan Unit 1	Н
Operator (as registered with the OOG)	Antero Resources	Corporation				
Address 1615 Wynkoop Street	City Den	iver	State	СО	Zip _	80202
As Drilled location NAD 83/UTM Top hole 1 Landing Point of Curve 1 Bottom Hole 1 Elevation (ft) 1405' GL	Attach an as-drille dorthing 4341561.89 Horthing 4341328.80 Horthing 4342362.29 Type of Well in the dorizontal Horizontal Gas Gas Gold Gas	d plat, profile view, E E E E New □ Existing tal 6A □ Vertical Plug Back □ Re	and deviation 538520 asting 536720 Type Depticular of the control	a survey 8.55 8.55 5.43 of Report th Type	■Interim □ Deep □ Stimula	□Final ■ Shallow
Drilling Media Surface hole Air Production hole Air Mud C Mud Type(s) and Additive(s) Air-Foam & 4% KCL	□ Mud □Fresh Wa Fresh Water ■ Brine		te hole ■ A	ir □ Mud	□ Fresh`	Water □ Brine
Mud- Polymer						
Date permit issued1/29/2013 Date completion activities began	_ Date drilling comm	nenced4/13/20 _ Date completion a		_	ceased	8/1/2014
Verbal plugging (Y/N)N	Pate permission granted	1N/A	Grante	d by	N/A	
Coal depth(s) ft 340', 420', 900', 1240	100' dentified ', 1320', 1680', 1860'	open mine(s) (Y/N Void(s) encountere Cavern(s) encounte	d (Y/N) dep	ths	lug N N	
Is coal being mined in area (Y/N)	N				Revie	wed by:

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API 47- 033	_ 05714	Farm na	me_Co	order, Geral	d & Louella	Well nu	ımber	ın Uni	1H
CASING STRINGS	Hole Size	Casing Size	Dej	New pth Us				4	t circulate (Y/N) details below*
Conductor	24"	20"	40	0' N	ew 10	6.5#	N/A		Y
Surface	17- 1/2"	13- 3/8"	36	57' N	ew 4	8#	N/A		Υ
Coal								+	
Intermediate 1	12-1/4"	9-5/8"	250	09' N	ew 3	6#	N/A		Υ
Intermediate 2									
Intermediate 3									
Production	8-3/4" & 8-1/2"	5-1/2"	13,7	759' N	ew 2	20#	N/A		Υ
Tubing									
Packer type and d	epth set	N/A		· · · · · · · · · · · · · · · · · · ·		\			
Comment Details								1	
CEMENT DATA	Class/Type of Cement			Slurry wt (ppg)	Yield (ft ³/sks)	Volume (ft ¹)	Cement Top (MD)		WOC (hrs)
Conductor	Class A	196 s		15.6	1.18	38	0		8 Hrs.
Surface	Class A	436 s	<u>, </u>	15.6	1.18	255	0		8 Hrs.
Coal					-				
Intermediate 1	Class A	930 sx	,	15.6	1.18	786	0		8 Hrs.
Intermediate 2									
Intermediate 3							 		
Production	Class H	2095 s	x 1	14.5 Lead 15.2 Tail	1.3 Lead 1.87 Tail	2692	~500' into Intermediate Casing		8 Hrs.
Tubing	0.00011								
•	13,759 MD, 7513 ation penetrated ocedure N/A				gers TD (ft) 13.7				
Kick off depth		□ caliper □ neutron	□ de		deviated/direction		wireline (Cleta l referense perature WR-35	e logs on Unit 1H A ce the wir for the C	equent well. Antero only one well on a multi-well p PI# 47-033-05659). Plea: eline logs submitted with leta Unit 2H. A Cement E luded with this submittal.
Well cored	Yes 🖪 No	□ Conventi	onal	□ Sidewall	W	ere cuttings co	ollected \square Ye	es 📮	No
Conductor- 0		LIZER PLACEM		SED FOR EA	CH CASING ST	TRING			
		t float, 1 every 4th joint to s oat collar, 1 every 4th joint							
		collar, 1 every 4th joint to		ent					
WAS WELL	COMPLETED	AS SHOT HOLE	E o Y	res ■ No	DETAILS	Waiting on Comple	etion		
WAS WELL	COMPLETED	OPEN HOLE?	□ Yes	. ∄ No	DETAILS W	ilting on Completion			
WERE TRAC	ERS USED 1	⊐Yes ■ No	TYP	E OF TRACE	CR(S) USED _wa	ilting on Completion			

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API 4	7- 033 - 05714	Farm nam	Corder, Gera	ald & Louella	Well number	Truman Unit	1H
			PERFORAT	ION RECORD			
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations		Formation(s)	
		* WA	ITING ON	COMPLE	ETION		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
			1	10.011.00				
			* WAITI	NG ON CC	MPLET			
,								

Please insert additional pages as applicable.

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API 47- 033	_ 05714	Farm	name_Corder, G	erald & Lou	iella	Well number	Truman Unit 1	Н
PRODUCING 1	FORMATION	(<u>S)</u>	<u>DEPTHS</u>					
Marcellus - WO			7381'	_TVD	7858'	MD		
		-						
Please insert ad	ditional pages	as applicable.						
GAS TEST	□ Build up	⊐ Drawdown	□ Open Flow		OIL TEST	Flow □ Pump		
						DURATION C		hrs
OPEN FLOW	Gas	Oil	psiNGL			GAS MEASU		1113
	mc	fpd	bpd	_ bpd _	bpd	□ Estimated	□ Orifice	□ Pilot
LITHOLOGY/	TOP	воттом	TOP	BOTTON	М			
FORMATION	DEPTH IN FT	DEPTH IN FT				ROCK TYPE AND		
	NAME TVD 0	TVD	MD 0	MD	TYPE OF FI	LUID (FRESHWAT	ER, BRINE, OIL,	GAS, H ₂ S, ETC)
	V							
		* P	LEASE S	SEE E	XHIBIT :	1		
		 						
Please insert ad	ditional pages	as applicable.		L				
Drilling Contra		- UTI Drilling Co	mpany LLC					
Address 207 Ca	rlton Drive		City	Eight Four		State PA	Zip _15330	
Logging Compa	any Rush Wells	ite Services						
Address 600 Alp			City	Canonsbu	rg	State PA	Zip _15317	
Cementing Con	npany Allied Oi	l &Gas Services	s, LLC					
Address 1036 E	ast Main Street		City	Bridgeport		State _WV	Zip <u>26330</u>	
Stimulating Con	mpany N/A - V	VOC						
Address			City		-	State	Zip	
Please insert ad	ditional pages a	as applicable.						
Completed by	Ashlie Steele				_ Telephone	303-357-7323		
Signature //	ulus	tele	Title Pe	ermitting Sup	pervisor	Date 1	1/24/2014	_
Submittal of Hy	draulic Fractur	ring Chemical I	Disclosure Infor	rmation	Attach copy o	f FRACFOCUS	Registry	

API 43	7-033-05714	Farm Name (Corder, Geral	ld & Louella We	ll Number <u>Truman Unit 1H</u>					
EXHIBIT 1										
LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)	ROCK TYPE	FLUID PRODUCED				
Undifferentiated Pennsylvanian		ł								
Sedimentary Sequence	0'	2279'	0'	2279'	Sandstone/Shale/Siltstone					
Big Lime	est. 2280'	2379'	est. 2280'	2379'	Limestone					
Big Injun	est. 2380'	2682'	est. 2380'	2682'	Sandstone/Shale/Siltstone					
Gantz Sand	est. 2683'	2824'	est. 2683'	2824'	Sandstone/Shale/Siltstone					
Fifty Foot Sandstone	est. 2825'	2895'	est. 2825'	2895'	Sandstone/Shale/Siltstone					
Gordon	est. 2896'	3069'	est. 2896'	3069'	Sandstone/Shale/Siltstone					
Fifth Sandstone	est. 3070'	3111'	est. 3070'	3111'	Sandstone/Shale/Siltstone					
Bayard	est. 3112'	3887'	est. 3112'	3887'	Sandstone/Shale/Siltstone					
Speechley	est. 3888'	4142'	est. 3888'	4142'	Sandstone/Shale/Siltstone					
Baltown	est. 4143'	4677'	est. 4143'	4677'	Sandstone/Shale/Siltstone					
Bradford	est. 4678'	5193'	est. 4678'	5193'	Sandstone/Shale/Siltstone					
Benson	est. 5194'	5370'	est. 5194'	5370'	Sandstone/Shale/Siltstone					
Alexander	est. 5371'	5521'	est. 5371'	5521'	Sandstone/Shale/Siltstone					
Elk	est. 5522'	7041'	est. 5522'	7325'	Sandstone/Shale/Siltstone					
Middlesex	7042'	7183'	7326'	7499'	Shale					
Burkett	7184'	7215'	7500'	7544'	Shale	Gas				
Tully	7216'	7380'	7545'	7857'	Limestone	N/A				
Marcellus	7381'	7513'	7858'		Shale	Gas				

^{*}Please note Antero determines formation tops based on wireline logs that are only run on one well on a multi-well pad (Please reference Cleta Unit 1H #47-033-05659). The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

