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

API 47 - 033 - 05694 County Har	rison	Distric	ct Tenmile		
Quad Salem Pad Name H			Pool Name		
Farm name Hubert, Jr. & Lorena Bland		Well	Number Ford	Unit 2H	
Operator (as registered with the OOG) Antero Resou	rces Corporatio	n			
	Denver		tate CO	Zip_	80202
Top hole Northing 4344997.	drilled plat, profil 78	e view, and devia Easting 5			
Landing Point of Curve Northing 4345257		Easting 53			
Bottom Hole Northing 4347859.	11	Easting 53	37622.78		-
Elevation (ft) 1376' GL Type of W	ell ∎New □ E	cisting T	Type of Report	■Interim	□Final
Permit Type □ Deviated □ Horizontal ■ Ho	rizontal 6A 🛮	Vertical	Depth Type	□ Deep	■ Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back	□ Redrilling	□ Rework	□ Stimula	te
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil	□ Secondary Reco	very	Mining D Sto	orage 🗆 O	ther
Type of Completion ■ Single □ Multiple Fluids I	Produced Brine	□Gas □ N	IGL □ Oil	■ Other No	ot yet completed
Drilled with □ Cable ■ Rotary					
Drilling Media Surface hole ■ Air □ Mud □ Fres	h Water Inte	ermediate hole	■ Air □ Mud	□ Fresh \	Water □ Brine
Production hole □ Air ■ Mud □ Fresh Water ■	Brine				
Mud Type(s) and Additive(s) Air- Foam & 4% KCL					
Mud- Polymer					
Date permit issued12/26/2012 Date drilling	commenced_ 3	/22/2014	Date drilling of	ceased	7/17/2014
14100	Date comp	oletion activities			
Verbal plugging (Y/N) N Date permission g		1.0	anted by	N/A	
Verbal plagging (1711) Bate permission g			anted by		
Please note: Operator is required to submit a plugging a	polication within	days of verbal	permission to n	luo	
rease note. Operator is required to submit a prugging a	ppneation within	days of verbar		EČEIVE	D
Freshwater depth(s) ft 391'	Open mine	s) (Y/N) depths	Office of	of Oil an	d Gas
Salt water depth(s) ft 1832'		ountered (Y/N)	depths NO	V 1 0 2 N	1
Coal depth(s) ft None Identified		ncountered (Y/N		V 1 0 201	1
Is coal being mined in area (Y/N) N		N. C. N.		epartme	ent of
			Environm		

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API 47- 033	05694		_ Farm na	ame_	lubert, Jr. 8	& Loren	a Bland	Well r	number	d Unit 2	2H
CASING STRINGS	Hole Size		asing ize	Е		New or Used	Grade wt/ft		asket epth(s)		ent circulate (Y/ N) le details below*
Conductor	24"		20"	20" 40'		New		94#	N/A		Υ
Surface	17- 1/2"	1	3- 3/8"	4	86'	New		48#	N/A		Y
Coal											
Intermediate 1	12-1/4"		9-5/8"	2	606'	New	:	36#	N/A		Y
Intermediate 2											
Intermediate 3										<u> </u>	
Production	8-3/4" & 8-1/2"		5-1/2"	17	,184'	New	-	23#	N/A		Y
Tubing					,						
Packer type and d	epth set	N/A		-						L	
Comment Details		-	-								
CEMENT DATA	Class/Type of Cement		Numbe of Sack		Slurry wt (ppg)		Yield t ³/sks)	Volume <u>(ft ³</u>)	Cemei Top (M		WOC (hrs)
Conductor	Class A		200 s		15.6		1.18	38	0		8 Hrs.
Surface	Class A		571 s	κ	15.6		1.18	338	0		8 Hrs.
Coal									-		
Intermediate 1	Class A		951 sx	,	15.6		1.18	816	0		8 Hrs.
Intermediate 2				-	10.0				+		
Intermediate 3											
Production	Class H		2545 s	545 SX 14.5 Lea		eil 131ea	ad 1.87 Tail	3454	~500' into Interme	diate Casing	8 Hrs.
Tubing	0.235 //			,				0,07			1 0 1 11 0 1
	<u> </u>							l	_l		
,	17,184 MD, 7559						D (ft) 17.				
=	tion penetrated	Marce	flus		P	lug back	to (ft) N//	4	· · · · · · · · · · · · · · · · · · ·		•
Plug back pro	cedure N/A										
Kick off depth	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		□ caliper □ neutron			deviat □ gamm	ed/directi a ray		luction (No refe nperature WF	reline logs of ellie Unit 21 erence the v R-35 for the	bsequent well. Antero only ru n one well on a multi-well pa I API# 47-033-05687). Please vireline logs submitted with Fo Nellie Unit 2H. A Cement Bo ncluded with this submittal.
Well cored	Yes No		Conventi	onal	□ Sidewall		w	ere cuttings o	collected p	Yes •	No
DESCRIBE T	HE CENTRAL	IZER	. PLACEM	ENT L	SED FOR E	ACH C	ASING S	TRING			<u> </u>
	de shoe, 1 above insert										
	e float joint, 1 above flo float joint, 1 below float										
71000007110000	noor joint, 1 below noor	conar, r	overy ora joint to	10p 01 0811						REC	EIVED
WAS WELL	COMPLETED	AS SI	HOT HOLE	<u> </u>	Yes 🖪 No	D)	ETAILS	Waiting on Comp	oletion Offic	e of C	Dil and Gas
WAS WELL	COMPLETED	OPEN	N HOLE?	□ Ye	es 🖪 No	DET	AILS <u>w</u>	ailing on Completion	on	NOV 1	0 2014
WERE TRAC	ERS USED	Yes	■ No	TY	PE OF TRAC	CER(S)	USED <u>w</u>	aiting on Completic	WV Environ	Depa	ertment of

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API 47- 033 - 05694	Farm name Hubert, Jr. & Lorena Bland	Ford Unit 2H	
	DEDECOD ATION DECORD	!	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
		* WA	ITING ON	COMPLI	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)
			* WAITI	NG ON CO	MPI F1	TION		_
								1 ;
							REC	EIVED
							Office of	EIVED Oil and Gas
							NOV :	9 2014
						1		

Please insert additional pages as applicable.

WV Department of Environmental Protection

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API 47- 033	_ 05694		_ Farm	name_Hubert, Jr	r. & Lorena	Bland		Well 1	numbei	Ford Unit 2H	
PRODUCING	FORMATIO	ON(S)		<u>DEPTHS</u>							
Marcellus - WO				7450'	TVD	8027'		MD			
11001100				7400	_ 1 V D			MD			
Please insert ad	ditional pag	ges as ap	_ plicable.								
GAS TEST	□ Build up	□ Dra	awdown	□ Open Flow		OIL T	EST 🗆 1	Flow [Pump		
SHUT-IN PRE	SSURE	Surface		psi Botto	om Hole_		psi	DURAT	TION C	OF TEST	hrs
OPEN FLOW	Gas		Oil	NGL		Water	r	GASN	1EASI	IRED BY	
		mcfpd		bpd							□ Pilot
LITHOLOGY/	ТОР		воттом	TOP	вотто						
FORMATION	DEPTH IN NAME TV		EPTH IN FT	DEPTH IN FT	DEPTH IN					RECORD QUAN	
 	0		TVD	MD 	MD		I PE OF FL	LUID (FRE	SHWAI	EK, BRINE, UIL,	, GAS, H₂S, ETC)
	ļ		* P	LEASE S	SEE E	XHI	RIT 1	—			
											<u>:</u>
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								-			
Please insert ad	ditional pag	es as ap	plicable.	•	•	•					
Drilling Contra	ctor Patters	on - UTI	Drilling Co	mpany LLC							
Address 207 Ca				City	Eight Fou	r		State	PA	Zip <u>15330</u>	·
Logging Comp	any Rush W	/ellsite S	ervices								
Address 600 Alp				City	Canonsb	ırg		State	PA	Zip 15317	
		0	-1-4: 0 D-					_		r	
Cementing Cor Address 1650 H		ors Comp	Dietion & Pr		Jane Lew			Canan	wv	Zip_26378	
Address 100011	ackers Creek			City	Jane Lew			State			
Stimulating Co	mpany N/	4 - WOC				_			(HEU!	EIVED
Address				City			-	State		JURNE OF C	il and Gas
Please insert ad	cuttonal pag	ges as ap	piicable.							NOV 1	0 2014
Completed by	Ashlie Stee	le				_ т	elephone	303-357	-7323		
Signature				Title P	ermitting Su	pervisor			Date _1	WV Depa	rtment of
Submittal of Hy	ydraulic Fra	cturing (Chemical I	Disclosure Info	rmation	Attac	h copy o		Env ocus	ronments Registry	al Protection

API 47-033-05694 Farm Name Hubert Jr & Lorena Bland. Well Number Ford Unit 2H									
EXHIBIT 1									
	ТОР	воттом	ТОР						
LITHOLOGY/	DEPTH	DEPTH	DEPTH	воттом					
FORMATION	(TVD)	(TVD)	(MD)	DEPTH (MD)	ROCK TYPE	FLUID PRODUCED			
Big Lime	est. 2280'	2393'	est. 2280'	2393'	Limestone				
Big Injun	est. 2394'	2781'	est. 2394'	2781'	Sandstone				
Gantz Sand	est. 2782'	2879'	est. 2782'	2879'	Sandstone				
Fifty Foot Sandstone	est. 2880'	2990'	est. 2880'	2990'	Sandstone				
Gordon	est. 2991'	3314'	est. 2991'	3314'	Sandstone				
Fifth Sandstone	est. 3315'	3349'	est. 3315'	3349'	Sandstone	_			
Bayard	est. 3350'	3919'	est. 3350'	3919'	Sandstone				
Speechley	est. 3920'	4429'	est. 3920'	4429'	Sandstone				
Baltown	est. 4430'	4759'	est. 4437'	4786'	Sandstone				
Bradford	est. 4760'	5280'	est. 4787'	5353'	Sandstone				
Benson	est. 5281'	5558'	est. 5354'	5658'	Sandstone				
Alexander	est. 5559'	5788'	est. 5659'	5906'	Sandstone				
Elk	est. 5789'	6892'	est. 5907'	7207'	Sandstone				
Sycamore	6893'	7112'	7208'	7473'	Sandstone				
Middlesex	7113'	7264'	7474'	7671'	Shale				
Burkett	7265'	7290'	7672'	77081	Shale	Gas			
Tully	7291'	7449'	7709'	8026'	Limestone	N/A			
Marcellus	7450'	7559'	8027'		Shale	Gas			

^{*}Please note Antero determines formation tops based on wireline logs that are only run on an one well on a multi-well pad (Please referenece Nellie Unit 2H #47-033-05687). The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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WV Department of Environmental Protection 11/28/2014



