

WR-35 Rev. 8/23/13 Page ___ of ___

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

API 47 - 033 - 05687 County Harrison	District Tenmile
Quad Salem Pad Name Huber	
Farm name Hubert, Jr. & Lorena Bland	Well Number Nellie Unit 2H
Operator (as registered with the OOG) Antero Resources	
• • • •	ver State CO Zip 80202
Top hole Northing <u>4344999.78</u>	d plat, profile view, and deviation survey Easting 537949.55
Landing Point of Curve Northing 4345029.35 Bottom Hole Northing 4343082.01	Easting 538469.72 Easting 540523.14
Elevation (ft) 1376' GL Type of Well	New □ Existing Type of Report ■Interim □Final
Permit Type □ Deviated □ Horizontal ■ Horizont	tal 6A □ Vertical Depth Type □ Deep ■ Shallow
Type of Operation □ Convert □ Deepen ■ Drill □	Plug Back □ Redrilling □ Rework □ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Sec	ondary Recovery Solution Mining Storage Other
Type of Completion ■ Single □ Multiple Fluids Product Drilled with □ Cable ■ Rotary	ced □ Brine □Gas □ NGL □ Oil ■ Other
Drilling Media Surface hole ■ Air □ Mud □Fresh War	ter Intermediate 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 issued12/07/2012 Date drilling comm	nenced 3/22/2014 Date drilling ceased 6/10/2014
Date completion activities began WOC	Date completion activities ceasedN/A
Verbal plugging (Y/N)N Date permission granted	N/A Granted by N/A
Please note: Operator is required to submit a plugging application	ation within 5 days of verbal permission to plug
Freshwater depth(s) ft 391'	Open mine(s) (Y/N) depths Office of Qil and Gas
Salt water depth(s) ft 1832'	Void(s) encountered (VAI) double NOV X A N
Coal depth(s) ft None Identified	Cavern(s) encountered (Y/N) depths
Is coal being mined in area (Y/N) N	Cavern(s) encountered (Y/N) depths N WV Department of Environmental-Profection

WR-35 Rev. 8/23/13								Page of
API 47- 033	_ 05687	Farm na	_{me} Hube	rt, Jr. & I	Lorena Bland	Well no	umber_Nellie U	Jnit 2H
CASING STRINGS	Hole Size	Casing Size	Depth		w or Grade sed wt/ft			cement circulate (Y/N) Provide details below*
Conductor	24"	20"	40'	N	lew 9	94#	N/A	Υ
Surface	17- 1/2"	13- 3/8"	483'	N	lew	48#	N/A	Υ
Coal								:
Intermediate 1	12-1/4"	9-5/8"	2525'		lew :	36#	N/A	; Y
Intermediate 2	,_ ,_ ,,	0 0.1						
Intermediate 3								
Production	8-3/4" & 8-1/2"	5-1/2"	17,443'		lew :	23#	N/A	Y
Tubing	0-3/4 0 0-1/2	3-1/2	11,440	- '		2017	N/A	<u> </u>
Packer type and d	enth set	N/A						
Comment Details		face - Cement Squeeze						
CEMENT DATA	Class/Type of Cement			Slurry t (ppg)	Yield (ft ³/sks)	Volume <u>(ft ³</u>)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	200 sx		15.6	1.18	38	0	8 Hrs.
Surface	Class A	588 sx		15.6	1.18	335	0	8 Hrs.
Coal	Glado / t		·	10.0	1.10	- 555	1	0 1110.
Intermediate 1	Class A	943 sx		15.6	1.18	791	*See Comment Details a	bove 8 Hrs.
Intermediate 2	Olass A	343 34		10.0	1.10	101		01115.
Intermediate 3						_		
Production	Class H	2744 s	1451	ead 15.2 Tail	1.3 Lead 1.87 Tail	3532	~500' into Intermediate C	asing 8 Hrs.
Tubing	Ciass II	2177 3/	14.5 E	580 15.2 1811	1.5 Lead 1.07 1811	3332		OTIIS.
· ·	tion penetrated	' TVD; 7485' TVD (Deepe	est point drilled)		ggers TD (ft) 17. g back to (ft) N/			
Kick off depth	(ft) 4100°							
Check all wire	line logs run	a caliper neutron	density		deviated/directi gamma ray			sonic
Well cored	Yes A No	□ Convention	onal 🗆 S	idewall	w	ere cuttings co	ollected 🗆 Yes	s • No
DESCRIBE T	HE CENTRAL	LIZER PLACEME	ENT USED	FOR EA	CH CASING S	TRING		· -
		t float, 1 every 4th joint to se						
		pat collar, 1 every 4th joint to collar, 1 every 3rd joint to to						CEIVED
Froduction- 1 800V6 1	oat joint, 1 000W 11081	war, I every 3rd joint to to	nh or ceweur	-			Office of	Oil and Gas
WAS WELL	COMPLETED	AS SHOT HOLE	□ Yes	■ No	DETAILS	Waiting on Comple	etion	1 0 2014
WAS WELL O	COMPLETED	OPEN HOLE?	□ Yes ■	No	DETAILS w	aiting on Completion	WV Dep	artment of
		· · · · · · · · · · · · · · · · · · ·					nvironmer	ital Protection
WERE TRAC	ERS USED 0	⊐ Yes 📱 No	TYPE O	F TRACE	ER(S) USED w			

WR-	35
Rev.	8/23/13

Page	of	
_		•

API	47	033		05687
API	4/-		-	

Farm name Hubert, Jr. & Lorena Bland

Well number Nellie Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to Number of MD ft. 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)
			_					
			1					-
			_* WAITI	NG ON CO	MPLE	TON		
				· <u> </u>				
		_						
								•
						F	ECEIVE	D
-						Oπice	ECFIVE of Oil an	d Gas
						N		
L				<u> </u>				

Please insert additional pages as applicable.

WV Department of Environmental Protection

WR-35								rage oi
Rev. 8/23/13	05607	_	Hubort Ir	2 Lorono	Pland	117 11	. Ford Unit 1b	1
API 47- <u>033</u>	_ 05687	Farm i	name_Hubert, Jr.	. & Lorena	biano	Well nu	ımber Ford Unit 1F	<u> </u>
PRODUCING I	FORMATION(<u>S)</u>	<u>DEPTHS</u>					
Marcellus - WO	С		7447'	TVD	7888'	MD		
				_				
		 -						
Please insert ad	ditional pages a	as applicable.						
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL TEST 🛚	Flow 🗆	Pump	1
SHUT-IN PRE	SSURE Surf	face	_psi Botto	m Hole	psi	DURATI	ION OF TEST _	hrs
OPEN FLOW	Gas	Oil	NGL		Water	GAS M	EASURED BY	
	mc	fpd 1	opd	_ bpd	bpd	□ Estim	ated Orifice	□ Pilot
	TOR	DOTTOM	TOR	DOTTO				
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOI DEPTH IN		ROCK TYPI	E AND RECORD QUA	ANTITYAND
	NAME TVD	TVD	MD	MD			HWATER, BRINE, O	1
	0		0					-
						· · · · · · · · · · · · · · · · · · ·	-	
		- D	LDACE		VIIIDIT	1		
		* P	LEASE S	SEE E	XHIBIT	1		
								-
-								
			,					
								!
Please insert ad								
Drilling Contra		UTI Drilling Co					DA 450'	20
Address 207 Ca	Iriton Drive		City	Eight Fou	r	State	PA Zip 1533	30
Logging Compa	any Rush Wells	ite Services						
Address 600 Alp	oha Drive		City	Canonsbu	urg	State	PA Zip 1531	17
Cementing Con	npany Nabors (Completion & Pr	oduction Service	es, Co.				
Address 1650 H	ackers Creek		City	Jane Lew		State		
Stimulating Co	mpany N/A - V	voc					REC	EIVED
Address			City			State	Uilice of (Oil and Gas
Please insert ad	ditional pages a	as applicable.						0 2014
Completed by	Ashlie Steele				Telephone	e <u>303-357-</u>	7323	
Signature			Title P	ermitting Su		Г	Date 10/2//2018:02	artment of
Submittal of Hy	draulic Fractur	ing Chemical I	Disclosure Info	rmation	Attach copy of	ł	Environment OCUS Registry	al Protection

API <u>47-0</u>	<u>33-05687</u> Fari	n Name <u>Hube</u>	ert Jr & Lorer	<u>na Bland.</u> Well N	umber <u>Nellie L</u>	JNIT ZH			
EXHIBIT 1									
TOP BOTTOM TOP									
LITHOLOGY/	DEPTH	DEPTH	DEPTH	воттом		:			
FORMATION	(TVD)	(TVD)	(MD)	DEPTH (MD)	ROCK TYPE	FLUID PRODUCED			
Big Lime	2280'	2393'	2280'	2393'	Limestone				
Big Injun	2394'	2781'	2394'	2781'	Sandstone				
Gantz Sand	2782'	2879'	2782'	2879'	Sandstone				
Fifty Foot Sandstone	2880'	2990'	2880'	2990'	Sandstone				
Gordon	2991'	3314'	2991'	3314'	Sandstone				
Fifth Sandstone	3315'	3349'	3315'	3349'	Sandstone				
Bayard	3350'	3919'	3350'	3919'	Sandstone				
Speechley	3920'	4429'	3920'	4429'	Sandstone	,			
Baltown	4430'	4759'	4437'	4786'	Sandstone				
Bradford	4760'	5280'	4787'	5353'	Sandstone				
Benson	5281'	5558'	5354'	5658'	Sandstone				
Alexander	5559'	5788'	5659'	5906'	Sandstone				
Elk	5789'	6900'	5907'	7145'	Sandstone				
Sycamore	6899'	7111'	7146'	7378'	Sandstone	1			
Middlesex	7112'	7272'	7379'	7566'	Shale				
Burkett	7273'	7293'	7567'	7595'	Shale	Gas			
Tully	7294'	7446'	7596'	7887'	Limestone	N/A			
Marcellus	7447'	7485'	7888'		Shale	Gas			



