

*Antero is submitting an "Interim" Form WR-35 showing the well work that has been completed to date. This well has been drilled to TD, but is waiting on completion operations, which are currently deferred at this time. We will follow up with the "Final" Form WR-35 & WR-34 within 90 days of completion.

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 47-017-06380 County Doddridge District Greenbrier
Quad Big Isaac 7.5' Pad Name Hughes Pad Field/Pool Name ----
Farm name Nelson, Eric E., et al Well Number Richard Unit 2H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4341190m Easting 532760m
Landing Point of Curve Northing 4341189.30m Easting 533321.02m
Bottom Hole Northing 4339105m Easting 533989m

Elevation (ft) 1332' GL Type of Well New Existing Type of Report Interim Final *permit has expired*
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water 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 issued 10/28/2013 Date drilling commenced 10/8/2014 Date drilling ceased 1/12/2015
Date completion activities began WOC Date completion activities ceased WOC
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug.

Freshwater depth(s) ft 109', 112' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1091', 1150' Void(s) encountered (Y/N) depths NOV 2 2016
Coal depth(s) ft 390' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

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APPROVED

NAME: Opakie Thornton
DATE: 11/22/16

API 47-017 - 06380

Farm name Nelson, Eric E., et al

Well number Richard Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	20"	40'	New	106.5#/J-55	N/A	Y
Surface	17-1/2"	13-3/8"	604'	New	48#/H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2522'	New	36#/J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15305'	New	23#/P-110	N/A	Y
Tubing							
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	100 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	718 sx	15.6	1.18	420	0'	8 Hrs.
Coal							
Intermediate 1	Class A	870 sx	15.6	1.18	790	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1253 sx (Lead) 1173 sx (Tail)	14.6 (Lead), 15.2 (Tail)	1.3 (Lead), 1.86 (Tail)	3043	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15309' MD, 7335' TVD (BHL); 7365' TVD (Deepest Point Drilled) Loggers TD (ft) 15254' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 7437

**Logs will be submitted with FINAL Completion Report.

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

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DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Office of Oil and Gas

Conductor - 0

Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface

Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface

Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS N/A - WOC WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS N/A - WOC

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A - WOC

API 47- 017 - 06380 Farm name Nelson, Eric E., et al Well number Richard Unit 2H

PRODUCING FORMATION(S)	DEPTHS		
	7315' (TOP)	TVD	7811' (TOP) MD
Marcellus			

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface ___ psi Bottom Hole ___ psi DURATION OF TEST ___ hrs

OPEN FLOW Gas ___ mcfpd Oil ___ bpd NGL ___ bpd Water ___ bpd
GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

***PLEASE SEE EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company, LP
Address 2640 Reach Rd. City Williamsport State PA Zip 17701

Logging Company ___
Address ___ City ___ State ___ Zip ___

Cementing Company Nabors Completion & Production Services, Co.
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company ___
Address ___ City ___ State ___ Zip ___

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-367-7233
Signature [Signature] Title Permitting Agent Date 3/2/2016

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Fresh Water	109'	N/A	109'	N/A
Fresh Water	112'	N/A	112'	N/A
Shale	0	188	0	188
Sandy siltstone	188	390	188	390
Coal	390	408	390	408
Shale	408	488	408	488
Siltstone	488	828	488	828
Shale	828	908	828	908
Sandstone	908	943	908	943
Shale	943	964	943	964
Trace coal	964	986	964	986
Sandy siltstone	986	1348	986	1348
Shale	1,348	1588	1,348	1588
Sandy shale	1588	1648	1588	1648
Trace coal	1648	1668	1648	1668
Shale	1668	1708	1668	1708
Sandstone	1708	1808	1708	1808
Silty sandstone	1808	1948	1808	1948
Trace coal	1948	1988	1948	1988
Silty sandstone	1988	2248	1988	2248
Shale	2248	N/A	2248	N/A
Big Lime**	N/A	N/A	N/A	N/A
Big Injun**	N/A	N/A	N/A	N/A
Weir**	N/A	N/A	N/A	N/A
Fifty Foot Sandstone**	N/A	N/A	N/A	N/A
Gordon**	N/A	N/A	N/A	N/A
Fifth Sandstone**	N/A	N/A	N/A	N/A
Bayard**	N/A	N/A	N/A	N/A
Speechley**	N/A	N/A	N/A	N/A
Baltown**	N/A	N/A	N/A	N/A
Bradford**	N/A	N/A	N/A	N/A
Riley**	N/A	N/A	N/A	N/A
Benson**	N/A	N/A	N/A	N/A
Alexander**	N/A	6834	N/A	7170
Sycamore	6834	7007	7170	7363
Middlesex	7007	7156	7363	7538
Burkett	7156	7187	7538	7579
Tully	7187	7315	7579	7811
Marcellus	7315	N/A	7811	

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**Depths for these formations are recorded with the cement bond log for each individual well. This information will be provided, along with the cement bond log, in the final report for this well.

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