

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

DATE: 1/24/2013
API #: 47-033-05591

Farm name: Mountain Lakes Limited Operator Well No.: Kermit Unit 3H

LOCATION: Elevation: 1386' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 3180' Feet South of 39 Deg. 15 Min. 00 Sec.
Longitude 9628' Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
1625 17th Street Denver, CO 80202	20" 94#	41'	41'	38 Cu. Ft. Class A
Agent: CT Corporation System	13 3/8" 48#	543'	543'	754 Cu. Ft. Class A
Inspector: <u>Tristan Jenkins</u>	9 5/8" 36#	2571'	2571'	1047 Cu. Ft. Class A
Date Permit Issued: <u>1/24/2012</u>	5 1/2" 23#	14172'	14172'	3477 Cu. Ft. Class H
Date Well Work Commenced: <u>6/20/2012</u>				
Date Well Work Completed: <u>11/13/2012</u>				
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>	2 3/8" 4.7#	7161'		
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7179' TVD</u>				
Total Measured Depth (ft): <u>14172' MD</u>				
Fresh Water Depth (ft.): <u>est. 50', 90' 111'</u>				
Salt Water Depth (ft.): <u>None available</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>270', 545', 645'</u>				
Void(s) encountered (N/Y) Depth(s) <u>None</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7141' TVD (Top)

Gas: Initial open flow _____ MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow 4811 MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure 3600 psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

[Signature]
Signature

1/24/13
Date

Office of Oil and Gas
2-5-2013
02/08/2013

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes - CBL,
Photo Density/ Compensated Neutron/ Gamma Ray and Dual Laterolog Gamma Ray

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7580'-14406' (1368 holes)

Frac'd w/ 9,576 gals 15% HCL Acid, 135,719 bbls Slick Water carrying 699,100# 100 mesh,
2,712,240# 40/70 and 1,644,440# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		
Big Lime	1756'	1863'
Big Injun	1864'	2149'
Gantz Sand	2150'	2251'
Fifty Foot Sandstone	2252'	2369'
Gordon	2370'	2660'
Fifth Sandstone	2661'	2715'
Bayard	2716'	3346'
Speechley	3347'	3587'
Balltown	3588'	4098'
Bradford	4099'	4677'
Benson	4678'	4873'
Alexander	4874'	5225'
Elk	5226'	6748'
Sonyea	6749'	6761'
Middlesex	6762'	6832'
West River Shale	6833'	6882'
Genundewa	6883'	6941'
Burket	6942'	6949'
Tully	6950'	7064'
Hamilton	7065'	7140'
Marcellus	7141'	7179' TVD

UNIVERSITY OF CALIFORNIA
JAN 2 2013
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