

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

JK



API 47-39-06331 County KANAWHA District BIG SANDY
Quad CLENDENIN Pad Name _____ Field/Pool Name _____
Farm name RAYMOND BAIL III & JANICE BAIL Well Number NANCY GREEN 1A
Operator (as registered with the OOG) RAVEN RIDGE ENERGY
Address 3230 PENNSYLVANIA AVE City CHARLESTON State WV Zip 35302

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing N/A Easting N/A
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 1073' GL Type of Well New Existing Type of Report Interim Final
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)
SOAP

Date permit issued 2/13/2012 Date drilling commenced 3/2/2012 Date drilling ceased 3/6/2012
Date completion activities began 4/2/2012 Date completion activities ceased 4/25/2012
Verbal plugging (Y/N) N Date permission granted N/A Granted by N

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

Freshwater depth(s) ft 200 Open mine(s) (Y/N) depths N/A
Salt water depth(s) ft 1300-1800 Void(s) encountered (Y/N) depths N/A
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) N/A
Is coal being mined in area (Y/N) NO

RECEIVED
Office of Oil & Gas

DEC 16 2013

WV Department of
Environmental Protection

Reviewed by:
05/02/2014

API 47-39 - 06331 Farm name RAYMOND BAIL III & JANICE BAIL Well number NANCY GREEN 1A

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	14 1/4	13 3/8	30'	NEW	J55-42LBS		YES-CEMENTED BY RIG
Surface	12 1/4	9 5/8	379'	NEW	LS-17LBS		YES
Coal							
Intermediate 1	8 3/4	7	1524'	NEW	J55-23LBS	400	YES
Intermediate 2							
Intermediate 3							
Production	6 1/4	4 1/2	2460'	NEW	J55-10.5LBS		YES
Tubing							
Packer type and depth set							

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 I	10 BY HAND				GL	8
Surface	CLASS I	140	15.6	1.18	165.2	GL	8
Coal							
Intermediate 1	CLASS I	300	15.6	1.18	354	GL	
Intermediate 2							
Intermediate 3							
Production	CLASS I	150	14.2	1.29	193.5	750	
Tubing							

Drillers TD (ft) 2500' Loggers TD (ft) 2374'
 Deepest formation penetrated WEIR Plug back to (ft) N/A
 Plug back procedure _____

Kick off depth (ft) _____

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

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

RECEIVED
Office of Oil & Gas

DEC 1-6 2013

WV Department of
Environmental Protection

API 47- 39 - 06331 Farm name RAYMOND BAIL III & JANICE BAIL Well number NANCY GREEN 1A

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>WEIR</u>	<u>2243' - 2289'</u>	<u>TVD</u>	<u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 50 psi Bottom Hole _____ psi DURATION OF TEST 12 hrs
 OPEN FLOW Gas 3 mcfpd Oil 1/2 bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY
 Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
SAND	0	1262'	0		
SALT SAND	1262'	1491'			
SAND	1491'	1548'			
MAXTON	1548'	1692'			
PENCIL CAVE	1692'	1706'			
LITTLE LIME	1706'	1712'			
BIG LIME	1712'	1886'			
BIG INJUN	1886'	1915'			
SAND	1915'	2243'			
WEIR	2243'	2289'			
SAND	2289'	2500'			

Please insert additional pages as applicable.

Drilling Contractor R&R WELLSERVICE
 Address AMBLER RIDGE City WALTON State WV Zip 25286

Logging Company SUPERIOR WELL SERVICE
 Address 1650 HACKERS CREEK RD City JANE LEW State WV Zip 26378

Cementing Company BAKER HUGHES (BJ SERVICES)
 Address 1681 EAST MAIN ST City BRIDGEPORT State WV Zip 26330

Stimulating Company BAKER HUGHES (BJ SERVICES)
 Address 1681 EAST MAIN ST City BRIDGEPORT State WV Zip 26330

Please insert additional pages as applicable.

Completed by DANIELLE N. BOGGS Telephone 304-344-9291
 Signature Danielle N. Boggs Title OPERATIONS MANAGER Date 11/27/13

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry
 WV Department of Environmental Protection
 RECEIVED Office of Oil & Gas
 DEC 16 2013
 05/02/2014