

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

API 47-39-06351 County KANAWHA District BIG SANDY
Quad BLUE CREEK Pad Name _____ Field/Pool Name _____
Farm name JOHN & PEGGY BARKER REVOCABLE TRUST Well Number WHITE 2A
Operator (as registered with the OOG) RAVEN RIDGE ENERGY, LLC
Address 3230 PENNSYLVANIA AVENUE City CHARLESTON State WV Zip 25302

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) 811' 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 3/28/2013 Date drilling commenced 4/4/2013 Date drilling ceased 4/10/2013
Date completion activities began None were performed Date completion activities ceased N/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 within 5 days of verbal permission to plug

Freshwater depth(s) ft 150' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,100' - 1,600' Void(s) encountered (Y/N) depths N
Coal depth(s) ft NONE OF RECORD Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

RECEIVED
Office of Oil & Gas Reviewed by: _____
MAY 28 2014

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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"	377'	NEW	LS - 17LBS		YES
Coal							
Intermediate 1	8 3/4"	7"	1,771'	NEW	J55 - 23LBS		YES
Intermediate 2							
Intermediate 3							
Production							
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 - RIG				GROUND LEVEL	8
Surface	CLASS I	140	15.6	1.18	29.42	GROUND LEVEL	8
Coal							
Intermediate 1	CLASS I	355	15.6	1.18	74.6	GROUND LEVEL	8
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 2021'

Loggers TD (ft) 2017'

Deepest formation penetrated Weir

Plug back to (ft) None

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

This well has not been completed to date and has been re-permitted to run 4 1/2" and perforate and perform an acid and water frac.

WERE TRACERS USED Yes No

TYPE OF TRACER(S) USED _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
N/A					

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 (bbbls)	Amount of Nitrogen/other (units)
N/A								

Please insert additional pages as applicable.

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PRODUCING FORMATION(S) DEPTHS
NO PRODUCTION AT THIS TIME _____ TVD _____ MD

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 Oil NGL Water GAS MEASURED BY
 _____ mcfpd _____ bpd _____ bpd _____ bpd Estimated Orifice Pilot

LITHOLOGY/ FORMATION	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	
SAND	0	1100'	0		
SALT SAND	1100'	1330'			
SAND	1330'	1390'			
MAXTON	1390'	1527'			
PENCIL CAVE	1527'	1544'			
LITTLE LIME	1544'	1549'			
BIG LIME	1549'	1712'			
BIG INJUN	1712'	1738'			
SAND	1738'	1836'			
WEIR	1836'	1892'			
SAND	1892'	2021'			

Please insert additional pages as applicable.

Drilling Contractor Petty Oilfield Services
 Address 7752 Lynne Avenue City Hamlin State WV Zip 25523

Logging Company Weatherford
 Address 286 Weatherford Blvd. City Buckhannon State WV Zip 26201

Cementing Company Universal Well Services
 Address 5 Hall Run Road City Buckhannon State WV Zip 26201

Stimulating Company None
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Danielle N. Boggs Telephone 304-344-9291
 Signature _____ Title Operations Manager Date 12/11/2013

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry