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Office of Oil and Gas

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

JUN 26 2014

WV Department of  
Environmental Protection

API 47 - 39 - 06354 W County KANAWHA District BIG SANDY  
Quad BLUE CREEK Pad Name \_\_\_\_\_ Field/Pool Name \_\_\_\_\_  
Farm name TEX SEABOLT Well Number WHITE 1A  
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) 839' 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 3/15/2013 Date drilling commenced 4/10/2013 Date drilling ceased 4/17/2013  
Date completion activities began 1/17/2014 Date completion activities ceased 2/1/2014  
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

Reviewed by: \_\_\_\_\_

07/04/2014

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/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	120'	YES
Coal							
Intermediate 1	8 3/4"	7"	1,769'	NEW	J55 - 23LBS	335'	YES
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	<del>2,200'</del>	NEW	J55 - 10.5LBS	<del>          </del>	
Tubing			<u>2016</u>				
Packer type and depth set <u>JK</u>							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS I	10 - RIG				GROUND LEVEL	8
Surface	CLASS I	160	15.6	1.18	188.8	GROUND LEVEL	12
Coal							
Intermediate 1	CLASS I	295	15.6	1.18	348.1	GROUND LEVEL	8
Intermediate 2							
Intermediate 3							
Production	CLASS I	150	14.2	1.29	193.5	GROUND LEVEL	8
Tubing							

Drillers TD (ft) <sup>2058</sup> \_\_\_\_\_

Loggers TD (ft) <sup>2050</sup> \_\_\_\_\_

Deepest formation penetrated <sup>WEIR</sup> \_\_\_\_\_

Plug back to (ft) \_\_\_\_\_

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 \_\_\_\_\_

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	1/17/2014	1842'	2004'	18	WEIR

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	1/18/14	20	3875	3326	1835	20,000	497	0

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>WEIR</u>	<u>1964' - 2017'</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 100 psi Bottom Hole        psi DURATION OF TEST 12 hrs  
 OPEN FLOW Gas 8 mcfpd Oil 1 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 <sub>2</sub> S, ETC)
SAND	0	1128'	0		
SALT SAND	1128'	1357'			
SAND	1357'	1418'			
MAXTON	1418'	1555'			
PENCIL CAVE	1555'	1572'			
LITTLE LIME	1572'	1577'			
BIG LIME	1577'	1740'			
BIG INJUN	1740'	1766'			
SAND	1766'	1964'			
WEIR	1964'	2017'			
SAND	2017'	2058'			

Please insert additional pages as applicable.

Drilling Contractor Petty Oilfield Services  
 Address 7752 Lynn 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 Hell Run Road City Buckhannon State WV Zip 26201  
 Stimulating Company Universal Well Services  
 Address 5 Hall Run Road City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by Danielle N. Boggs Telephone 304-344-9291  
 Signature *Danielle N. Boggs* Title Operations Manager Date 6/26/2014

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