

WR-35
Rev (9-11)

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

DATE: 8/8/2013
API #: 47-039-06339



Farm name: Cindy Harper Operator Well No.: Harper Perdue 1A
LOCATION: Elevation: 960 Quadrangle: Blue Creek 7.5
District: Big Sandy County: Kanawha
Latitude: 6590 Feet South of 38 Deg. 30 Min 00 Sec.
Longitude 3000 Feet West of 81 Deg. 22 Min 30 Sec.

Company: Raven Ridge Energy, LLC

Address:	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
3230 Pennsylvania Ave. Charleston, WV 25302	13"	30	30	
Agent: <u>Ryan Cunningham</u>	9 5/8"	350	350	cts
Inspector: <u>Terry Urban</u>	7"	1737	1737	cts
Date Permit Issued: <u>7/10/2012</u>				
Date Well Work Commenced: <u>8/14/2012</u>				
Date Well Work Completed: <u>8/19/2012</u>				
Verbal Plugging: <u>N/A</u>				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>2169</u>				
Total Measured Depth (ft): <u>2169</u>				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

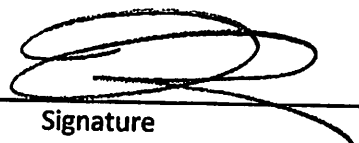
OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Weir Pay Zone Depth (ft) 1950 - 2035
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 50 MCF/d Oil: Final open flow 2 Bbl/d
Time of open flow between initial and final tests 48 Hours
Static Rock Pressure 105 psig (surface pressure) after 54 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 Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static Rock Pressure _____ psig (surface pressure) after _____ Hours

Received

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

Office of Oil and Gas
WV Dept. of Environmental Protection
8/8/13 Date
8/27/2013

39-06339

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 Gamma Ray /
Neutron, Density / Induction, Temperature / PE

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:

SHOT WEIR FORMATION W/ 60 QUARTS

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

Formations Encountered: Top Depth / Bottom Depth
Surface:

Formations Encountered:	Top Depth	Bottom Depth
SAND & SHALE	0	140
SAND	140	230
SHALE	230	270
SAND	270	430
SHALE	430	560
SAND & SHALE	560	760
SAND	760	810
SAND & SHALE	810	1145
SALT SAND	1145	1490
SAND & SHALE	1490	1640
MAXTON	1640	1705
LITTLE LIME	1705	1715
SHALE	1715	1720
BIG LIME	1720	1750
BIG INJUN	1750	1825
SQUAW	1875	1870
SHALE	1870	1950
WEIR	1950	2035
SHALE	2035	2169
TOTAL DEPTH		2169

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AUG - 9 2013
Office of Oil and Gas
WV Dept. of Environmental Protection
09/27/2013