

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 #: 47-039-06335

Farm name: Gary Harper Operator Well No.: Harper Perdue 2A
LOCATION: Elevation: 810' Quadrangle: Blue Creek 7.5
District: Big Sandy County: Kanawha
Latitude: 5800 Feet South of 38 Deg. 30 Min 00 Sec.
Longitude 3590 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"	1614	1614	CTS
Date Permit Issued: <u>2/13/2012</u>				
Date Well Work Commenced: <u>8/9/2012</u>				
Date Well Work Completed: <u>8/15/2012</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>2384</u>				
Total Measured Depth (ft): <u>2384</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) 1910 - 1950
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow 75 MCF/d Oil: Final open flow 3 Bbl/d
Time of open flow between initial and final tests 48 Hours
Static Rock Pressure 110 psig (surface pressure) after 60 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

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

Received

AUG - 9 2013

Office of Oil and Gas
WV Dept. of Environmental Protection
Date

09/27/2013

39-06335

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:			
SAND	0		75
SAND & SHALE	75		190
SAND	190		320
SHALE	320		350
SAND	350		490
SAND & SHALE	490		800
SAND	800		850
SHALE	850		960
SAND	960		1000
SHALE	1000		1025
SALT SAND	1025		1360
SAND & SHALE	1360		1510
MAXTON	1510		1560
LITTLE LIME	1560		1570
PENCIL CAVE	1570		1580
BIG LIME	1580		1610
BIG INJUN	1610		1690
SQUAW	1670		1730
SHALE	1730		1810
WEIR	1810		1960
SHALE	1960		2130
COFFEE SHALE	2130		2140
SHALE	2140		2384
TOTAL DEPTH	2384		

Received

AUG - 9 2013

Office of Oil and Gas
WYO Dept. of Environmental Protection

09/27/2013