

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

DATE: DECEMBER 6, 2011
API #: 087-4694

Farm name: MUNDEN Operator Well No.: ZANNIE MACE #8

LOCATION: Elevation: 1124' Quadrangle: ARNOLDSBURG

District: SPENCER County: ROANE
Latitude: 7525' Feet South of 38 Deg. 50 Min. Sec.
Longitude 13800' Feet West of 81 Deg. 12 Min. 30 Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
ROY G. HILDRETH AND SON, INC., PO BOX 1007 SPENCER, WV 25276	9 5/8"	30'	30'	
Agent: ROY G. HILDRETH	7"	400'	400'	TO SURFACE
Inspector: ED GAINER	4 1/2"	2352'	2352'	TOP CEMENT 1394'
Date Permit Issued: 06/22/11				
Date Well Work Commenced: 07/18/11				
Date Well Work Completed: 11/30/11				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Vertical Depth (ft):				
Total Measured Depth (ft): 2360'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): 1870'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N				
Void(s) encountered (N/Y) Depth(s) N				

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

Producing formation BIG INJUN Pay zone depth (ft) 2244'-2254'

Gas: Initial open flow SHOW MCF/d Oil: Initial open flow SHOW Bbl/d

Final open flow 350 MCF/d Final open flow 5 Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ 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 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.

Ray B. Slidest
Signature

Dec. 6, 2011
Date

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes No _____

Were Electrical, _____ Mechanical, _____ or Geophysical logs recorded on this well?
Y/N Y/N Y/N

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:

20 PERFS @ 2244' - 2254' BIG INJUN

X-LINK FRACED W/ 37,200# 20/40 SAND

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth _____
Surface: _____

0 - 1610' SLATE & SHALE

1610' - 1670' SALT SAND

1670' - 1740' SLATE & SHALE

1740' - 1760' SALT SAND

1760' - 1850' SLATE & SHALE

1850' - 1915' SALT SAND

1915' - 1980' MAXON SAND

1980' - 2000' SLATE & SHALE

2000' - 2052' LITTLE LIME

2052' - 2170' BIG LIME

2170' - 2260' BIG INJUN

2260' - 2360' SLATE & SHALE