WR-35 Rev (8-10)

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 #:	087-4695

Farm name: MUNDEN	Operator Well No.: ZANNIE MACE #9			
LOCATION: Elevation: 1020'	Quadrangle: ARNOLDSBURG			
District: SPENCER Latitude: 6850' Feet South of 38 Deg. Longitude 13800' Feet West of 81 Deg.				
Company:		-		
Company.	Casing &	Used in	Left in well	Cement fill
Address:	Tubing	drilling		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"	300'	300'	TO SURFACE
Inspector: ED GAINER	4 1/2"	2390'	2390'	TOP CEMENT 1350
Date Permit Issued: 06/22/11				
Date Well Work Commenced: 08/01/11				
Date Well Work Completed: 11/30/11				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Vertical Depth (ft):				
Total Measured Depth (ft): 2390'				
Fresh Water Depth (ft.): 180'				
Salt Water Depth (ft.): 1800'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N				
Void(s) encountered (N/Y) Depth(s) N				
Gas: Initial open flow SHOW MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests	zone depth (ft) 2 ow SHOW BI v 5 Bb Hours	158' - 2168' ol/d l/d	er Visionis	
Static rock Pressure psig (surface pressure) af	ıcınou	ıa	ĺ,	
Second producing formation Pay zo: Gas: Initial open flow MCF/d Oil: Initial open flow		1/d	2.5	
Final open flow MCF/d Final open flow Time of open flow between initial and final tests	vBb Hours		A Section 1	
Static rock Pressure psig (surface pressure) af	terHou	rs		
I certify under penalty of law that I have personally examined a	and am familiar	with the inform	nation submitted	on this document and

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.

D. Olsied I

Dec - 6 th , 2011

05/25/2012

Were core samples taken? YesNo_X	Were cuttings caught during drilling? Yes X NoNo
Were $\frac{X}{Y/N}$ Electrical, Mechanical, Y/N	or Geophysical logs recorded on this well?
FRACTURING OR STIMULATING, PHYSIC	HE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, CAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC IE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL OM SURFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulating:	
20 PERFS @ 2158' - 2168' BIG INJUN	
X-LINK FRACED W/ 37,700# 20/40 SAN	ID
Formations Encountered: Surface:	Top Depth / Bottom Depth
0 - 1530' SLATE & SHALE	
1530' - 1570' SALT SAND	
1570' - 1760' SLATE & SHALE	
1760' - 1825' SALT SAND	
1825' - 1910' MAXON SAND	
1910' - 1950' SLATE & SHALE	
1950' - 1980' LITTLE LIME	
1980' - 2100' BIG LIME	
2100' - 2170' BIG INJUN	
2170' - 2390' SLATE & SHALE	