

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Received  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: Mac Bar Heirs Operator Well No.: 4 APR 19 2013

LOCATION: Elevation: 692 Quadrangle: Grantsville

District: Center County: Calhoun

Latitude: \_\_\_\_\_ Feet South of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.

Longitude \_\_\_\_\_ Feet West of \_\_\_\_\_ Deg. \_\_\_\_\_ Min. \_\_\_\_\_ Sec.

Company: E.M. & W.E. Smith

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
PO Box 244				
Address: Grantsville, WV 26147				
Agent: Edward M. Smith				
Inspector: Ed Gainer				
Date Permit Issued: May 31, 2006	11 3/4	300	300'	CTS
Date Well Work Commenced: 6/14/07				
Date Well Work Completed: 7/19/07	8 5/8	1050'	1050'	CTS
Verbal Plugging:				
Date Permission granted on:	4 1/2	as needed	as needed	above shale zone
Rotary Cable Rig				
Total Depth (feet): 5460				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? no				
Coal Depths (ft.): no coal in area				

OPEN FLOW DATA

Producing formation Shale Zones Pay zone depth (ft) see rec  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d sheet  
 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

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

NOTE: ON BACK OF THIS FORM 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 ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Mary L Smith  
 By: Agent  
 Date: 10/7/09

Mac Bsrr #4

Details of Perforated Intervals.

Top	3489	-	4025	20 Shots
2nd	4243	-	4731	20 Shots
1st	5124			20 Shots

Fracturing

1st Brakedown	3017
2nd Brakedown	1788
3rd Brakedown	1407

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05/17/2013