

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

Well Operator's Report of Well Work

Farm name: Thoms, M. Chad & Randy Whittington Operator Well No.: Carder #M2

LOCATION: Elevation: 967' Quadrangle: Smithville 7.5'

District: Murphy County: Ritchie  
Latitude: 1489 Feet South of 39 Deg. 02 Min 30 Sec.  
Longitude 2444 Feet West of 81 Deg. 02 Min 30 Sec.

Company: Murvin & Meier Oil Co.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P. O. Box 396 Olney, Illinois 62450	11 3/4"	170	170	118
Agent: P. Nathan Bowles, Jr.				
Inspector: Mr. David Cowan	8 5/8"	1189	1189	328
Date Permit Issued: 06/13/2011				
Date Well Work Commenced: 07/20/2011	4 1/2"	6214	6214	616
Date Well Work Completed: 08/19/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 6227'				
Fresh Water Depth (ft.): 80'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): <u>None</u>				

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SEP 07 2011

WV Department of  
Environmental Protection

OPEN FLOW DATA

Producing formation Rhinestreet & Lower Rhinestreet Pay zone depth (ft) 5718' to 6108'

Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d

Final open flow 150 MCF/d Final open flow show Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure 1100 psig (surface pressure) after 24 Hours

Second producing formation Bradford, Alexander, 2<sup>nd</sup> Elk Pay zone depth (ft) 4389' to 5570'

Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d

Final open flow 150 MCF/d Final open flow show Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock Pressure 1100 psig (surface pressure) after 24 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: MURVIN & MEIER OIL CO.  
By: Gary L. Hill Vice-Pres.  
Date: September 7, 2011

01/20/2012

8/9/2011

Ran SBL and perforated Lower Rhinestreet from 5994' to 6108' with 40 holes. Fractured perms using a slick water with nitrogen assist system containing 1000 gals 15% HCL, 1620 bbls fluid, 255 MSCF nitrogen, 10,000 lbs 80/100 and 44,500 lbs 20/40 sand.

Perforated Rhinestreet from 5718' to 5890' with 25 holes. Fractured perms using a 90Q foam system containing 500 gals 15% HCL, 108 bbls fluid, 690 MSCF nitrogen, and 30,000 lbs 20/40 sand.

Perforated 2nd Elk from 5554' to 5570' with 14 holes. Fractured perms using a 90Q foam system containing 500 gals 15% HCL, 85 bbls fluid, 828 MSCF nitrogen, and 30,000 lbs 20/40 sand.

Perforated Alexander from 4960' to 4986' with 16 holes. Fractured perms using a nitrogen system containing 500 gals 15% HCL and 600 MSCF nitrogen.

Perforated Bradford from 4389' to 4425' with 14 holes. Fractured perms using a nitrogen system containing 500 gals 15% HCL and 600 MSCF nitrogen.

<b>Formation</b>	<b>Top</b>	<b>Bottom</b>
Clay	0	5
Sand	5	10
Red Rock	10	20
Shale	20	25
Sand	25	70
Red Rock	70	80
Sand	80	233
Sand/Red Rock/Shale	233	380
Sand	380	470
Sand/Shale	470	570
Red Rock	570	595
Sand/Shale	595	635
Red Rock	635	645
Sand/Shale	645	675
Red Rock	675	685
Sand/Shale	685	740
Red Rock	740	765
Sand/Shale	765	1249

01/20/2012

Red Rock	1249	1275
Sand/Shale	1275	1650
3rd Salt Sand	1650	1700
Sand/Shale	1700	1770
Maxon	1770	1800
Sand/Shale	1800	1875
Little Lime	1875	1920
Sand	1920	1930
Big Lime	1930	2025
Injun	2025	2065
Sand/Shale	2065	2410
Berea	2410	2460
Sand/Shale	2460	2623
Gordon	2623	2680
Sand/Shale	2680	3385
Warren	3385	3450
Sand/Shale	3450	3805
Speechly	3805	3850
Sand/Shale	3850	4100
Balltown	4100	4180
Shale	4180	4412
Bradford	4412	4426
Sand/Shale	4426	4870
Alexander	4870	4990
Shale	4990	5350
Elk	5350	5580
Shale	5580	5710
Rhinestreet	5710	6040
Shale	6040	6227

**Total Depth** 6227