

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: 23-Nov-2011  
API #: 47-085-09946

Farm name: Roberts, Susie Mae Operator Well No.: C.M. Welch #1

LOCATION: Elevation: 1026' Quadrangle: Smithville 7.5'

District: Murphy County: Ritchie  
Latitude: 2700 Feet South of 39 Deg. 02 Min 30 Sec.  
Longitude 4830 Feet West of 81 Deg. 00 Min 00 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	16"	20'	20	
Agent: P. Nathan Bowles, Jr.				
Inspector: Mr. David Cowan	11 3/4"	254.5	254.5	243
Date Permit Issued: 11/23/2011				
Date Well Work Commenced: 1/17/2012	8 5/8"	1872.9	1872.9	532
Date Well Work Completed: 4/19/2012				
Verbal Plugging:	4 1/2"	6270.1	6270.1	885.5
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 6285'				
Total Measured Depth (ft): 6285'				
Fresh Water Depth (ft.): 52'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None				
Void(s) encounter (N/Y) Depth(s) N				

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

Producing formation Riley, Benson, Alexander, Elk, Rhinestreet Pay zone depth (ft) 4681' to 6204'  
Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 100 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 900 psig (surface pressure) after 72 Hours

Second producing formation Warren, Speechly, Bradford Pay zone depth (ft) 3350' to 4434'  
Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 100 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 900 psig (surface pressure) after 72 Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all of 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.

Signed: MURVIN & MEIER OIL CO.  
By: Gary L. Hill Vice-Pres.  
Date: May 7, 2012

08/03/2012

Were core samples taken? Yes \_\_\_\_\_ No X Were cuttings caught during drilling? Yes X No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list:

Photo Density/Compensated Neutron/Array Induction      Cement Bond/Gamma Ray/Collar

**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:**

6104' to 6204'	1490 bbls fluid, 1000 gals 15% HCL, 10,000 lbs 80/100, 50,000 lbs 20/40, 159 MSCF Nitrogen
5782' to 6049'	160 bbls fluid, 500 gals 15% HCL, 30,000 lbs 20/40, 741 MSCF Nitrogen
5384' to 5622'	135 bbls fluid, 500 gals 15% HCL, 30,000 lbs 20/40, 772 MSCF Nitrogen
4880' to 5012'	700 MSCF Nitrogen, 500 gals 15% HCL
4681' to 4742'	500 MSCF Nitrogen, 500 gals 15% HCL
4110' to 4434'	600 MSCF Nitrogen, 500 gals. 15% HCL
3350' to 3919'	600 MSCF Nitrogen, 500 gals. 15% HCL

**Plug Back Details including Plug Type and Depth(s):**      None

Formations Encountered	Top Depth	Bottom Depth
Fill/Sand/Shale	0	52
Sand/Shale	52	137
Red Rock/Shale	137	288
Sand/Shale	288	310
Red Rock/Shale	310	348
Sand/Shale	348	520
Sand	520	540
Sand/Shale	540	695
Sand	695	820
Sand/Shale	820	875
Red Rock/Shale	875	930
Sand/Shale	930	1143
Sand	1143	1170
Sand/Shale	1170	1490
Shale	1490	1500
Shale/Red Rock	1500	1556
Sand	1556	1652
Sand/Shale	1652	1871
Big Lime	1871	1946

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Keener	1946	1950
Lime	1950	1963
Injun	1963	2045
Sand/Shale	2045	2118
Weir	2118	2138
Sand/Shale	2138	2333
Berea	2333	2359
Sand/Shale	2359	2546
Gordon	2546	2634
Shale	2634	3350
Warren	3350	3388
Shale	3388	3876
Speechly	3876	3967
Shale	3967	4410
Bradford	4410	4430
Shale	4430	4890
Benson	4890	4916
Shale	4916	4954
Alexander	4954	5017
Shale	5017	5259
1st Elk	5259	5403
Shale	5403	5580
2nd Elk	5580	5612
Shale	5612	5774
Rhinestreet	5774	6210
Shale	6210	6285

**Total Depth**      6285