

Farm name: Yoder, Noah L. & Emma Operator Well No.: J.E. Gum #1

LOCATION: Elevation: 1072' Quadrangle: Smithville 7.5'

District: Murphy County: Ritchie  
Latitude: 7790 Feet South of 39 Deg. 02 Min 30 Sec.  
Longitude 4960 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				
Agent: P. Nathan Bowles, Jr.				
Inspector: Mr. David Cowan	11 3/4"	282.9'	282.9'	179.4
Date Permit Issued: 08/12/2010				
Date Well Work Commenced: 11/08/2011	8 5/8"	1904'	1904'	560.0
Date Well Work Completed: 06/29/2012				
Verbal Plugging:	4 1/2"	6302'	6302'	897.8
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 6316				
Total Measured Depth (ft): 6316				
Fresh Water Depth (ft.): Damp at 65'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 50' to 55'				
Void(s) encounter (N/Y) Depth(s) N				

RECEIVED  
Office of Oil & Gas  
JUL 18 2012  
WV Department of Environmental Protection

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

Producing formation Alexander, 2<sup>nd</sup> Elk, Rhinestreet, L. Rhinestreet Pay zone depth (ft) 4908' to 6216'  
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 860 psig (surface pressure) after 72 Hours

Second producing formation Warren, Balltown, Bradford, Riley, Benson Pay zone depth (ft) 3374' to 4758'  
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 860 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: Gayle Hill Vice-Pres.  
Date: July 18, 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:**

6117' to 6216':                    1000 gals 15% HCL, 1580 bbls, 219 MSCF Nitrogen, 10,000# 80/100, 50,000# 20/40  
 5812' to 5998':                    500 gals 15% HCL, 137 bbls, 668 MSCF Nitrogen, 30,000# 20/40  
 5606' to 5646':                    500 gals 15% HCL, 141 bbls, 765 MSCF Nitrogen, 30,000# 20/40  
 4908' to 5032':                    500 gals 15% HCL, 700 MSCF Nitrogen  
 4669' to 4758':                    500 gals 15% HCL, 500 MSCF Nitrogen  
 3927' to 4442':                    500 gals 15% HCL, 600 MSCF Nitrogen  
 3374' to 3423':                    500 gals 15% HCL, 500 MSCF Nitrogen

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

Formations Encountered	Top Depth	Bottom Depth
Earth	0	8
Sand	8	50
Coal	50	55
Sand	55	105
Sand/Red Rock/Shale	105	240
Sand/Shale	240	250
Sand	250	510
Red Rock	510	530
Sand/Shale	530	570
Red Rock	570	580
Sand/Shale	580	794
Sand	794	822
Sand/Shale	822	851
Sand	851	888
Sand/Shale/Red Rock	888	1273
Sand	1273	1353
Sand/Shale/Red Rock	1353	1744
Third Salt Sand	1744	1775
Maxon	1775	1800
Shale	1800	1830

Little Lime	1830	1870
Shale	1870	1895
Big Lime	1895	1982
Big Injun	1982	2073
Sand/Shale	2073	2400
Berea	2400	2420
Sand/Shale	2420	2603
Gordon	2603	2671
Sand/Shale	2671	3374
Warren	3374	3413
Shale	3413	3926
Speechly	3926	4002
Shale	4002	4124
Balltown	4124	4419
Shale	4419	4432
Bradford	4432	4443
Shale	4443	4661
Riley	4661	4716
Shale	4716	4755
Benson	4755	4758
Shale	4758	4969
Alexander	4969	5032
Shale	5032	5311
First Elk	5311	5337
Shale	5337	5603
Second Elk	5603	5646
Shale	5646	5812
Rhinestreet	5812	6234
Shale	6234	6316
<b>Total Depth</b>	<b>6316</b>	

RECEIVED  
 JUL 10 1902  
 U.S. GEOLOGICAL SURVEY  
 WASHINGTON, D.C.