

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Reviewed _____

Well Operator's Report of Well Work

Farm name: Cora Delong Operator Well No.: #4

LOCATION: Elevation: 1076' Quadrangle: Schultz

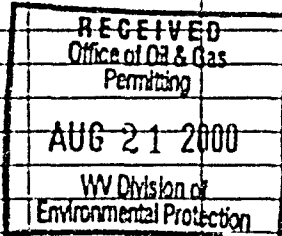
District: Jefferson County: Pleasants

Latitude: 4080 Feet South of 39 Deg. 20 Min. _____ Sec.

Longitude 6740 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: Ohio L&M Co., Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>4150 Belden Village Ave.</u>	<u>10-3/4"</u>	<u>40'</u>	<u>0'</u>	<u>N/A</u>
<u>NW Suite 410 Canton, OH 44718</u>				
Agent: <u>Jeff Sayger</u>	<u>7"</u>		<u>1038"</u>	<u>185 Sk.</u>
Inspector: <u>Sam Hershman</u>				
Date Permit Issued: <u>3-14-00</u>	<u>4-1/2"</u>		<u>2760'</u>	<u>75 Sk.</u>
Date Well Work Commenced: <u>3-21-00</u>				
Date Well Work Completed: <u>4-14-00</u>	<u>1-1/2"</u>		<u>2690'</u>	<u>N/A</u>
Vertical Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): <u>2780'</u>				
Fresh Water Depth (ft.): <u>Dusted</u>				
Salt Water Depth (ft.): <u>1175'</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>None</u>				



OPEN FLOW DATA

Producing formation Gordon/Gantz/30Ft. Pay zone depth (ft) 2405-2683

Gas: Initial open flow 20.0 MCF/d Oil: Initial open flow 0.0 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 450 psig (surface pressure) after 43 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: Martin L. Miller
By: Martin L. Miller
Date: 8-16-00

Gordon/30Ft./Gantz Perforated With 24 Shots
From 2405 To 2698
Balled Off In Acid - Fraced Well With 600BBL.
Slick Water And Sand.

COPY

WELL: Ohio L & M Co., Inc.#4 Cora Delong.

LOCATION: Jefferson District, Pleasants County, West Virginia.

PERMIT NUMBER: Pleasants-2260.

ELEVATION: 1076' Ground 1079'KB.

STATUS: Preparing to complete as a gas producer.

CASING: 7" @ 1035'.

TOTAL DEPTH: 2775' Driller 2780' Logger.

CONTRACTOR: Century Drilling Co..

TOOLS: Rotary.

SPUD DATE: 4/10/2000.

COMPLETED DRILLING: 4/14/2000.

FORMATION AT TOTAL DEPTH: Devonian shale.

ELECTRICAL SURVEYS: Gamma Ray-Compensated Density-Sidewall Neutron-Caliper-Temperature-Induction by Allegheny Wireline Services.

SHOWS: A good show of gas was noted in the Injun. Small shows of gas were noted in the 2nd Cow Run, 1st Salt, 2nd Salt and Gantz Sandstones. Good hydrocarbon fluorescence was noted in the 2nd Cow Run, while fair hydrocarbon fluorescence was noted in the Injun, Gantz and Berea Sandstones. A more detailed description of the above mentioned fluorescence can be found on the attached Formation Evaluation Log.

FORMATION TOPS:	2 nd Cow Run Sandstone	1165'	- 86
	1st Salt Sand	1332'	- 253
	2nd Salt Sand	1512'	- 433
	3rd Salt Sand	1626'	- 547
	Maxon Sandstone	1706'	- 627
	Big Lime (Greenbrier)	1722'	- 643
	Keener Sandstone	1748'	- 669
	Injun Sandstone	1776'	- 697
	Lower Injun Sandstone	1886'	- 807
	Berea Sandstone	2284'	- 1205
	Gantz Sandstone	2398'	- 1319

30' Sandstone	2482'	- 1403
Gordon Sandstone	2672'	- 1593

STRUCTURAL COMPARISON:

	Ohio L&M Co., Inc. Cora Delong #4	Ohio L&M Co., Inc. Cora Delong #2
2 nd Cow Run sandstone	- 86	- 108
Big Lime	- 643	- 640

GEOLOGY:

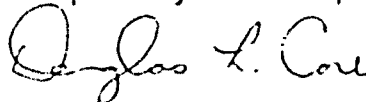
Sample analysis indicated good sandstone development in the 2nd Cow Run, 1st Salt, and lower Injun Sandstones. A good show of gas was recorded in the lower Injun Sandstone, while small shows of gas were noted in the 2nd Cow Run, 1st Salt, 2nd Salt and Gantz. Good hydrocarbon fluorescence was noted in the 2nd Cow Run, while fair hydrocarbon fluorescence was noted in the lower Injun, Berea and Gantz.

The log analysis showed 4 potential zones in this well. The calculations are as follows:

Zone	Net thickness	Average porosity	Water saturation
1 st Salt Sandstone	10'	14%	23%
Lower Injun Ss.	21'	18%	30%
Gantz Sandstone	4'	9%	18%
Gordon Sandstone	6'	6%	22%

The Cora Delong #4 should be a fair to good producer of gas, with minor amounts of oil, from the zones shown above.

Respectfully submitted,



NATIONAL MINERALS CORPORATION

By: Douglas L. Core, President

April 15, 2000.