

DEEP

DATE: February 12, 2004

API:

47-039-05532

State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

Farm name:

W. D. Lewis Heirs

Location Elevation: 1272'

District: Malden

Operator Well No: 824213 Quadrangle:

County:

Quick Kanawha

COLUMBIA NATURAL RESOURCES	Casing & Tubing	Used in drilling	Left in Well	Cement fill up Cu.Ft.
Address: P.O. Box 6070	20"	15'	15'	
Charleston, WV 25362	13 3/8"	672'	672'	660
Agent: Mike John	9 5/8"	1907'	1907'	650
Inspector: Carlos Hively	7"	5332'	5332'	224
Date Permit Issued:	4 1/2 99		6708	242
Date Well work commenced: 04/1/03	2 3/8"		6764'	
Date Well Work completed: 09/22/03				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 6775? 6820' at least				
Fresh Water Depth (ft): 107			ŀ	
Salt Water Depth (ft.): 1205				
Is coal being mined in area (No)	er en			
Coal Depths (ft): N/A				

OPEN FLOW DATA

Producing formation: Tuscarora

Gas: Initial open flow MCF/d

Final open flow 502 MCF/d

Pay zone depth (ft) from 6708' to 6820' Openhole

Oil: Initial open flow Bbl/d Final open flow Bbl/d

Time of open flow between initial and final tests 6 Hours

Static rock Pressure 960 psig (surface pressure) after 72 Hours

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2nd producing formation:

Gas: Initial open flow MCF/d

Final open flow MCF/d

Pay zone depth (ft) from to Oil: Initial open flow Bbl/d

Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure psig (surface pressure) after Hours

FEB 1 3 2004

WV Department of Environmental Protection

3rd producing formation:

Gas: Initial open flow MCF/d

Final open flow MCF/d

Pay zone depth (ft) from

from to

Oil: Initial open flow Final open flow

Bbl/d 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 PERFORATEDINTERVALS, 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.

WELL OPERATOR: COLUMBIA NATURAL RESOURCES, INC.

Date: 2-12-04

Well 825213

Well Treatment

Acid Clean up Openhole 6708'-6820', Acid 1250 gallons, 15% HCL, Average pump rate 3 BPM, ATP 3000 psi, Post ISIP 2080, 5 min vacuum

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Columbia Natural Resources W. D. Lewis Hrs. 824213 Malden District, Kanawha County, WV 47-039-05532

	Formation	Тор	Bottom
•	Siltstone & shale	0	1004
	Sandstone	1004	1062
	Siltstone & shale	1062	1170
-	Salt Sand	1170	1391
	Shale	1391	1435
***************************************	Maxon Sand	1435	1540
	Shale	1540	1623
	Little Lime	1623	1659
encompanie	Big Lime	1659	1851
and the	Injun Sand	1851	1904
*****	Pocono Shale	1904	2270
- Magazanian	Coffee Shale	2270	2294
-	Berea Siltstone	2294	2297
	Devonian Shale	2297	3485
	Lower Huron	3485	4226
Sand SVIN'	Devonian Shale	4226	4665 RECEIVED
countr	Rhinestreet Shale	4665	509 Office of Oil & Gas
Mount	Marcellus Shale	5093	5157 Since of Oil & Gas
Magazalasi	Onondaga Lime	5157	5248 FEB 1 3 2004
property	Oriskany Sand	5248	5272
*****	Helderberg Lime	5272	550 WV Department of
April 1	Salina Dolomite & Shale	5500	E024ronmental Protection
*******	Newburg Sand	6024	6044
process 6	McKenzie Limestone	6044	6257
mayer?"	Keefer Sandstone	6257	6298
*****	Rose Hill Shale	6298	6710
Managemen	Tuscarora Sandstone	6710	6784
*****	Juniata Shale	6784	TD