





. WR-35 Rev (5-01)

DATE: <u>7/16/07</u>

API#: 47-031-00026

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

Well Operator's Report of Well Work

Farm name: Berlin Hamilton	Operator V	Well No.: _	12448	
LOCATION: Elevation: 2537 ft	Quadrangl	e: Lost R	iver State]	Park
District: Lost River Latitude: 4,457 Feet South of Longitude 6,615 Feet West of Company: Columbia Gas Transmission Corp	County:	i. 30 Se	c.	
	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1700 MacCorkle Ave SE Charleston, WV 25325-1273	24" 94# Gr. B-35	60	56	none – sanded in
Agent: Paul Amick	20" 59# Gr. B-35	120	114	88 sks
Inspector: Bill Hatfield / Craig Duckworth Date Permit Issued: 12/15/05	13-3/8" 48# H-40	694	683	650 sks
Date Well Work Commenced: 7/10/06 Date Well Work Completed: 4/17/07	9-5/8" 36# J-55	1821	1800	560 sks
Verbal Plugging: Date Permission granted on: not applicable	7" 23# N-80	7217	7197	340 sks
Rotary X Cable Rig Total Depth (feet): 7640 Fresh Water Depth (ft.): 357, 813	2-3/8" 4.7# J-55	7228	7228	none
Salt Water Depth (ft.): none observed				
Is coal being mined in area (N/Y)? no Coal Depths (ft.):ft				
Producing formation Oriskany Sand Gas: Initial open flow 4,000 MCF/ Final open flow 5,000 MCF/ Time of open flow between initial and Static rock Pressure 1120 psig (s	d Oil: Initial open flor d Final open flow final tests <u>+72</u> E surface pressure) after	ow <u>0</u> 7 0 Hours er <u>+72</u>	Bbl/c Bbl/ Hour	d rs

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:

By: James E. Amos – Senior Storage Engineer – Columbia Gas Transmission Corp
Date: 7/16/07

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Well drilled to Oriskany Sandstone for underground natural gas storage.

Formation Record	Top (MD ft)
Hamilton Group	6075
Upper Marcellus	6771
Purcell	6822
Lower Marcellus	7025
Needmore	7105
Oriskany	7214
Helderberg	7498
TD	7640

Wellbore Telemetry (NAD 27 SPC WV-North Zone)

Surface:

N/S = 163,051 ft

E/W = 2,171,224 ft

Final Depth:

N/S = 164,048 ft

E/W = 2,172,137 ft

MD = 7640 ft TVD = 7354 ft

* Refer to revised survey plat and Schlumberger survey data report.

Perforations:

none

Stimulation:

Fractured

2,000 gals 20% HCl acid 938 bbls fresh water / guar

409 MSCF N2 50,400 lbs sand

Avg BH rate:

25 BPM

ATP:

3515 psig

Electric Logs Ran:

12/13/06

GR-Density-CNL

12/13/06

Laterolog

12/13/06

Dipole Sonic Porosity

1/8/07

GR-Density-CNL

1/8/07

Laterolog

1/24/07

Dipole Sonic Imager