



NOTE:
No houses or water wells
are within 200'.

Surface Owner
Pearl River Timber, LLC
DB 280 Pg 202
Tax Map 386 Parcel 8

Coordinates Well No 12348
WV-N Nad83 U.S. Feet
N 168,866.98
E 2,144,236.46

NOTE:
This map is for well location
only and does not represent
a complete property survey.

All wells within 1200' are as shown
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION _____
GPS CP No. 21 Elevation 2241.23'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION
(SIGNED) Stephan Parks
R.P.E. 8982 L.L.S. 1707



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

DATE September 11 20 04
OPERATOR'S WELL NO. 12348
API WELL NO. 47 - 031 - 00025
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
LOCATION: ELEVATION 2188.62' WATER SHED Whetzel Hollow of Kimsey Run
DISTRICT Lost River COUNTY Hardy
QUADRANGLE Lost River State Park

SURFACE OWNER Pearl River Timber, LLC ACREAGE 336
OIL & GAS ROYALTY OWNER Columbia Gas Trans., et al LEASE ACREAGE 506
LEASE NO. 62856

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Oriskany ESTIMATED DEPTH 7200'
WELL OPERATOR Columbia Gas Transmission Corp. DESIGNATED AGENT Paul Arnick
ADDRESS P.O. Box 1273 ADDRESS P.O. Box 1273
Charleston, WV 25325-1273 Charleston, WV 25325-1273

WR-35
Rev (5-01)

DATE: 10/30/07
API #: 47-031-00025-01-00

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

Well Operator's Report of Well Work

Farm name: Pearl River Timber, LLC Operator Well No.: 12348

LOCATION: Elevation: 2189 ft Quadrangle: Lost River State Park

District: Lost River County: Hardy
Latitude: 13.892 Feet South of 39 Deg. 00 Min. 00 Sec.
Longitude 2.060 Feet West of 78 Deg. 52 Min. 30 Sec.

Company: Columbia Gas Transmission Corp

	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	70	68	none - sanded in
Agent: Paul Amick	20" 59# Gr. B-35	100	96	100 sks
Inspector: Craig Duckworth	13-3/8" 48# H-40	525	510	475 sks
Date Permit Issued: 12/15/05				
Date Well Work Commenced: 4/10/07	9-5/8" 36# J-55	1975	1952	585 sks
Date Well Work Completed: 7/31/07				
Verbal Plugging:	7" 23# N-80	6833	6814	340 sks
Date Permission granted on: not applicable				
Rotary X Cable Rig	2-3/8" 4.7# J-55	6815	6815	none
Total Depth (feet): 7127				
Fresh Water Depth (ft.): 292				
Salt Water Depth (ft.): none detected				
Is coal being mined in area (N/Y)? no				
Coal Depths (ft.): _____ ft				

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 6855 - 7028
Gas: Initial open flow 1,800 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1,800 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 30 Days
Static rock Pressure 1200 psig (surface pressure) after 72+ Hours

Second Producing formation not applicable

RECEIVED
Office of Oil & Gas
OCT 31 2007
WV Department of
Environmental Protection

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: James E. Amos
By: James E. Amos - Senior Storage Engineer - Columbia Gas Transmission Corp
Date: 10/30/07

NOV 16 2007

HAR 0095

Hardy Well 12348

Well drilled to Oriskany Sandstone for underground natural gas storage. Note that well was sidetracked.

Original wellbore (referred to as operator well number 12348A)

- o Directionally drilled to a total depth of 7147 ft.
- o Directional survey data (NAD 27 SPC WV-North Zone)
 - Surface: N/S = 168,823 ft E/W = 2,175,669 ft
 - Final Depth (projected): N/S = 168,883 ft E/W = 2,175,498 ft
 - MD = 7147 ft TVD = 7092 ft
- * Refer to Schlumberger survey data report.
- o 7" 23# N-80 casing set @ 6812 ft (steel line)
- o Top of Oriskany 6812 ft (driller)
- o The 7" casing was parted at 4100 ft and pulled.
- o The borehole was plugged back as follows:

Top	Bottom	Material	Quantity
6485	7147	Class A cement	24 bbls
4200	6485	6% gel	90 bbls
3820	4200	Class A cement	27 bbls
3430	3820	Class A cement	30 bbls

Sidetrack wellbore (referred to as operator well number 12348)

- o Departed original wellbore at 3450 ft.
- o Directionally drilled to a total depth of 7127 ft.
- o Directional survey data (NAD 27 SPC WV-North Zone)
 - Surface: N/S = 168,823 ft E/W = 2,175,669 ft
 - Final Depth (projected): N/S = 169,084 ft E/W = 2,175,266 ft
 - MD = 7127 ft TVD = 7082 ft
- * Refer to "as-drilled" survey plat and Schlumberger survey data report.

<u>Formation Record (elog)</u>	<u>Top (MD ft)</u>	<u>Bottom (MD ft)</u>
various shales	0	5280
Hamilton Group	5280	6218
Upper Marcellus	6218	6261
~ fault	6261	6261
Hamilton Group	6261	6352
Upper Marcellus	6352	6420
Purcell	6420	6611
Lower Marcellus	6611	6725
Needmore	6725	6821
Oriskany Sandstone	6821	7040
Helderberg LS	7040	
TD		7127

Perforations: none
 Stimulation: 2,000 gals 28% HCl acid
 Avg BH rate: 2 BPM
 ATP: 2450 psig

Electric Logs Ran:	6/13/07	CNL - Litho Dens	(sidetrack borehole)
	6/13/07	CNL - Litho Dens (TVD)	(sidetrack borehole)
	6/13/07	Laterolog	(sidetrack borehole)
	6/13/07	Laterolog (TVD)	(sidetrack borehole)
	6/13/07	Sonic Porosity	(sidetrack borehole)
	6/13/07	Sonic Porosity (TVD)	(sidetrack borehole)
	6/13/07	Directional Survey	(sidetrack borehole)
	6/19/07	CNL - Litho Dens	(sidetrack borehole)
	6/19/07	CNL - Litho Dens (TVD)	(sidetrack borehole)
	6/19/07	Laterolog	(sidetrack borehole)
	6/19/07	Laterolog (TVD)	(sidetrack borehole)
	6/19/07	Directional Survey	(sidetrack borehole)