

Notes:
 This Map is For
 Well Location Only &
 Does Not Represent
 A Complete Property Survey.
 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS (7 1/2')

Notes:
 No Houses Or Water Wells Within 200'.

FILE NO. _____
 DRAWING NO. 7328
 SCALE 1" = 1000'
 MINIMUM DEGREE OF
 ACCURACY 1/200
 PROVEN SOURCE OF
 ELEVATION BM 636 USGS 230 SKS
1956 - DISK ON NE CORNER OF RR BRIDGE
OVER UPPER THREE MILE FORK ELEV. 635.76

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF ENERGY.
 (SIGNED) _____
 R.P.E. _____ L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL
PROTECTION
 SECTION OF OIL & GAS

DATE OCTOBER 10, 2007
 OPERATOR'S WELL NO. 7328
 API WELL NO. 47 039 01607-F
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1133' WATER SHED RICH CREEK
 DISTRICT BIG SANDY COUNTY KANAWHA
 QUADRANGLE BLUE CREEK COORDINATES LAT: 36° 26' 42" LONG: 81° 24' 08"

SURFACE OWNER JAMES BROWN, III, ESQ., EXECUTOR ACREAGE 340
 OIL & GAS ROYALTY OWNER JAMES BROWN, III, ESQ. LEASE ACREAGE 340
 COAL OWNER _____ LEASE NO. 101844

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION _____ ESTIMATED DEPTH _____

WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT PAUL AMICK MAR 21 2008
 ADDRESS PO Box 1273, Charleston, WV ADDRESS PO Box 1273, Charleston, WV
25325-1273 25325-1273

9-AM FORM

KANAWHA COUNTY NAME
 01607 PERMIT



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 3

WELL RECORD

Permit No. KAN-1607-R

Oil or Gas Well Gas

(KIND)

Company UNITED FUEL GAS COMPANY
Address P.O. Box 1273, Charleston 25, W. Va.
Farm W. F. Goshorn, et al Acres 340
Location (waters) Two Mile Fork
Well No. 8021 Elev. 1131.54'
District Big Sandy County Kanawha
The surface of tract is owned in fee by _____
Address _____

Mineral rights are owned by Goshorn & Goshorn, Agt., et al
Terminal Building Address Charleston, W. Va.

Drilling commenced 6-1-53
Drilling completed 11-12-53
Date Shot Not shot From _____ To _____
With _____

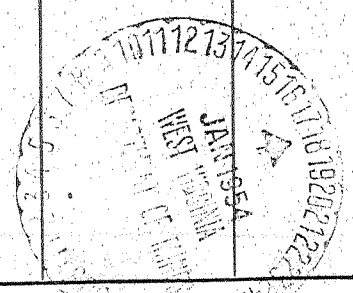
Open Flow 25 /10ths Water in 7 Inch
/10ths Merc. in _____ Inch
Volume 2,157,000 Cu. Ft.
Rock Pressure 945 lbs. 22 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 115 feet 125 feet
Salt water 1212 feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18 -3/8"		603'	
10 -3/4"	1818'		Size of
8 1/2 -5/8"		2275'	
7 5/8 -5 1/2"		5432'	Depth set
5 3/16			
3		5555'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	30			
Slate			30	50			
Sand			50	85			
Red Mud			85	95			
Slate			95	115			
Sand			115	120			
Slate			120	125			
Sand			125	205			Fresh water 115' 1/2 bailer per hr.
Red Rock			205	215			
Sand			215	220			Water 125' 1 1/2 bailers per hr., exhausted
Slate & Shells			220	245			
Sand			245	456			Show gas 1152'
Slate & Shells			456	484			
Sand			484	554			Hole full water (salt) 1212'
Slate & Shells			554	579			
Sand			579	634			Gas 1918' estimated 50/10 W 1" 75 M
Slate			634	639			
Sand			639	716			Gas 2108' 6/10 W 2" 103 M
Slate			716	772			
Sand			772	808			Gas 5542-5552' 25/10 W 7" 22# 2,157 M
Slate			808	850			
Sand			850	883			Not shot
Slate			883	915			
Sand			915	925			
Slate			925	945			FINAL OPEN FLOW-2,157 M - Oriskany
Sandy lime			945	995			22 Hr. R.P. 945#
Slate & Shells			995	1130			
-Salt Sand			1130	1560			
Lime			1560	1588			Shut in 11-12-53 in 2" tubing.
Red Rock			1588	1592			
Lime			1592	1607			
Red Rock			1607	1654			
Slate & Shells			1645	1696			
Red Rock			1696	1715			
Lime			1715	1718			
-Sand			1718	1722			
Slate & Shells			1722	1740			
-Lime			1740	1796			
-Slate (Pencil Cave)			1796	1798			



(Over)

Fract 4-25-57

REC'D
Office of Oil & Gas
OCT 06 2008
WR-33
Rev. 5-07
WV Department of
Environmental Protection

DATE: 10/2/08
API #: 47-039-01607 W

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

Well Operator's Report of Well Work

Farm name: James R. Brown III Operator Well No.: 7328

LOCATION: Elevation: 1133 ft Quadrangle: Blue Creek

District: Big Sandy County: Kanawha
Latitude: 4,800 Feet South of 38 Deg. 27 Min. 30 Sec.
Longitude 7,775 Feet West of 81 Deg. 22 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				
Agent: Paul Amick	This is an existing storage well - no casing pulled or ran during rework.			
Inspector: Terry Urban				
Date Permit Issued: 3/21/08				
Date Well Work Commenced: 8/19/08				
Date Well Work Completed: 9/19/08				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 5556				
Fresh Water Depth (ft.): not applicable - rework				
Salt Water Depth (ft.): not applicable - rework				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): none reported ft				

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 5396 - 5556
Gas: Initial open flow not applicable MCF/d Oil: Initial open flow none Bbl/d
Final open flow 13,000 MCF/d No oil
Time of open flow between initial and final tests not applicable Hours
Static rock Pressure 1355 psig (surface pressure) after 24 Hours

Second Producing formation N/A 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: James E. Amos
By: James E. Amos - Senior Storage Engineer - Columbia Gas Transmission Corp
Date: 10/2/08

JAN 09 2009

KAN 1007 W

Coco C storage well 7328

This is an existing storage well. Below is a summary of work performed.

- 1) Well was killed, e-logs ran, new API wellhead installed, and fracture stimulated.

Logs Ran: Baker Atlas Logging	GR-Neutron
Baker Atlas Logging	MicroVertilog
Baker Atlas Logging	cement bond log.

Fracture stimulation: 1000 gals HCl acid
512 bbls gel
180 MCF nitrogen
26,500 lbs 20/40 sand
Avg BH rate: 18 BPM
Avg TP: 3225 psig
ISIP: 3265 psig

* Note that no earthen pit was utilized. Swab and stimulation fluids recovered via steel tanks and transported to LAD in Wheeling, WV for processing.