

LATITUDE 38°27'30"

LONGITUDE 81°25'00"

GAS WELL #7325 (KAN-1244)

WELL #7354 (KAN-1976)

WELL #7324 (KAN-1533)

MELISSA DRENNEN CISCO, ET AL.

TM. 24, PAR. 92 DB. 1481, PG. 357

1/2" IRON PIPE (FOUND)

PLUGGED WELL #12072 (KAN-2814)

MARY E. PROWSE, ET AL. TM. 24, PAR. 91

JOSEPH & JEWELL BIGONY TM. 24, PAR. 84

Notes: This Map is For Well Location Purposes Only & Does Not Represent A Complete Property Survey. No Houses Or Water Wells Within 200'

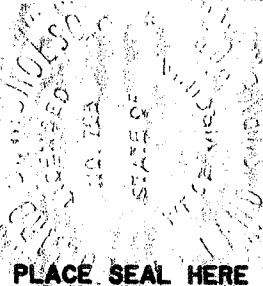
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS (7 1/2")

FB 2682 PG 70

FILE NO. DRAWING NO. 7325 SCALE 1" = 400' MINIMUM DEGREE OF ACCURACY 1:200 PROVEN SOURCE OF ELEVATION EXISTING WELL

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 DEPARTMENT OF ENERGY. (SIGNED)

R.P.E. L.L.S. 798



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



DATE NOVEMBER 13, 2007 OPERATOR'S WELL NO. 7325 API WELL NO.

47 039 01575-01244 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 904' WATER SHED WALNUT CREEK OF ELK RIVER DISTRICT ELK COUNTY KANAWHA QUADRANGLE BLUE CREEK COORDINATES LAT: 38°27'08" LONG: 81°25'47"

SURFACE OWNER MELISSA DRENNEN CISCO, ET AL. ACREAGE 390

OIL & GAS ROYALTY OWNER JAMES F. BROWN LEASE ACREAGE 998

COAL OWNER LEASE NO. 1002274

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

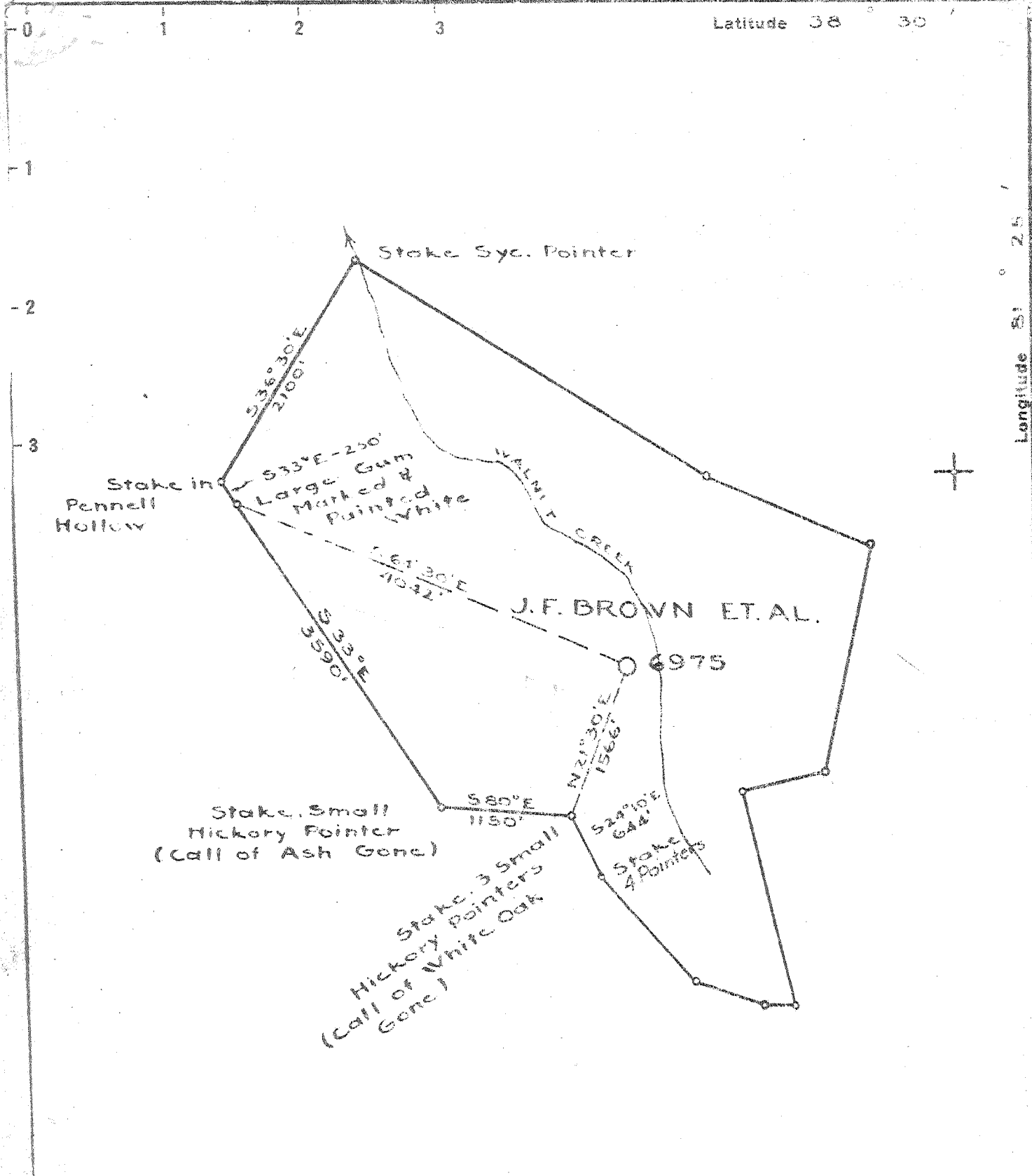
PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION ESTIMATED DEPTH MAR 28 2008

WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT PAUL AMICK

ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273

KANAWHA COUNTY NAME PERMIT 01244 1575



7.5 0615 topo loc 15' loc  
 38° 27' 30" 0.42S 3.30S  
 81° 25' 00" 0.70W 0.70W

3.5 S  
 0.55 W

3 EC (J-6)

New Location   
 Drill Deeper   
 Abandonment

Company UNITED FUEL GAS CO.  
 Address CHARLESTON, W. VA.  
 Farm JAMES F. BROWN ET AL.  
 Tract Acres 400 Lease No. PL 2274  
 Well (Farm) No. 20 Serial No. 6975  
 Elevation (Spirit Level) 905.11  
 Quadrangle CLENDENIN - NW  
 County KANAWHA District ELK  
 Engineer Paul E. [Signature]  
 Engineer's Registration No. 669  
 File No. 72-65 Drawing No. \_\_\_\_\_  
 Date DEC. 11 - 51 Scale 1" = 1320'

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

WELL LOCATION MAP  
 FILE NO. KAN-1575

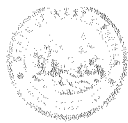
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

Samples 15H (5349-5340)

Deep Well





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

*Colendenen*

WELL RECORD

Oil or Gas Well Gas  
(RIND)

Permit No. KAN-1575

Company UNITED FUEL GAS COMPANY  
Address P. O. Box 1273, Charleston 25, W. Va.  
Farm James F. Brown #20 Acres 7098 $\frac{1}{2}$   
Location (waters) Walnut Creek  
Well No. 6975 Elev. 905.11  
District Elk County Kanawha  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced 1-30-52  
Drilling completed 5-29-52  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_

Open Flow 1/4 /10ths Water in \_\_\_\_\_ Inch  
7 /10ths Merc. in \_\_\_\_\_ Inch  
Volume 5,955,000 Cu. Ft.  
Rock Pressure 825 lbs. 48 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet  
Salt water 1068' feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18			
18-3/8"		35'	
10-3/4"	355'	Pulled	Size of
8-5/8"		1658'	Depth set
7"		5218'	
5 9/16			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	5			
Red Rock			5	45			
Slate			45	75			
Red Rock			75	110			
Slate			110	125			
Red Rock			125	137			
Slate			137	147			Hole full water 1068'
Sand			147	159			
Red Rock			159	163			Show gas 1798-1815'
Slate & Shells			163	250			
Sand			250	368			Gas 5334-5340' 10/10 W 7" 22# 1,364 M
Slate & Shells			368	410			Gas 5340-5357' inc. to 14/10 Merc. 7" 22# 5,955 M
Sand			410	465			
Slate & Shells			465	495			
Sand			495	558			Gas 5357-5358' inc. to 15/10 Merc. 7" 22# 6,166 M
Slate & Shells			558	568			
Sand			568	591			
Slate & Shells			591	735			Gas 5358-5361' decreased to 14/10 Merc. 7" 22# 5,955 M
Sand			735	765			
Slate & Shells			765	825			
Sand			825	872			
Slate & Shells			872	1040			Not Shot
Salt Sand			1040	1410			
Slate			1410	1430			
Sand			1430	1449			FINAL OPEN FLOW - 5,955 M - Oriskany 48 Hr. R.P. 825#
Red Rock			1449	1454			
Slate & Shells			1454	1523			
Red Rock			1523	1530			
Slate			1530	1600			Shut in 5-29-52 in 7" casing.
Little Lime			1600	1635			
Slate			1635	1645			
Pencil Cave			1645	1650			
Big Line			1650	1795			
Injun Sand			1795	1925			
Slate & Shells			1925	1955			
Weir Shells			1955	2095			
Slate & Shells			2095	2380			
Brown Shale	<u>Saxbury</u>		2380	2395			

*Open Flow*  
*1749*  
NOV 1952  
WEST VIRGINIA  
DEPARTMENT OF MINES  
JAN 20 1953

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Berea Grit			2395	2410			
Slate & Shells			2410	3395			
Brown Shale			3395	3475			
Slate & Shells			3475	3760			
Brown Shale			3760	4200			
White Slate			4200	4700			
Brown Shale			4700	4810			
White Slate			4810	4845			
Brown Shale			4845	5080			
White Slate			5080	5155			
Black Slate			5155	5196			
Corniferous			5196	5327			
Oriskany			5327	5361			
Total depth			5361'				
					5196	5327	
					905	905	
					<u>4291</u>	<u>4422</u>	

Date October 31, 1952

APPROVED UNITED FUEL GAS COMPANY, Owner

By S. R. Ferrell

(Title)

RECEIVED  
Office of Oil & Gas  
OCT 06 2008  
WR-35  
Rev. 6-01  
WV Department of  
Environmental Protection

DATE: 10/2/08  
API #: 47-039-01575-DW

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

Well Operator's Report of Well Work

Farm name: Mellisa Drennen Cisco Operator Well No.: 7325

LOCATION: Elevation: 904 ft Quadrangle: Blue Creek

District: Elk County: Kanawha  
Latitude: 2.200 Feet South of 38 Deg. 27 Min. 30 Sec.  
Longitude 3.700 Feet West of 81 Deg. 25 Min. 00 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 - 5255 ft of tubing was pulled and re-ran.			
Inspector: Terry Urban				
Date Permit Issued: 3/28/08				
Date Well Work Commenced: 7/23/08				
Date Well Work Completed: 9/27/08				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 5361				
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) 5334 - 5358  
Gas: Initial open flow not applicable MCF/d Oil: Initial open flow none Bbl/d  
Final open flow 9,200 MCF/d No oil  
Time of open flow between initial and final tests not applicable Hours  
Static rock Pressure 1575 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 1575W

Coco C storage well 7325

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

- 1) Well was killed, tubing pulled, e-logs ran, cleaned to a depth of 5361 ft, tubing re-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  
                                     75 bbls fresh water  
                                     405 bbls gel  
                                     203.5 MCF nitrogen  
                                     26,000 lbs 20/40 sand  
                                     Avg BH rate: 18 BPM  
                                     Avg TP: 2674 psig  
                                     ISIP: 3180 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.