

833'

LATITUDE 39°10'00"

LONGITUDE 78°47'30"

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

Surface Owner  
Columbia Gas Transmission  
429 Acres  
DB 126 Pg. 91  
Tax Map 208 P. 5

Lease  
Cleland Evans et al  
Lease No. 57288  
480 Acres

Existing Location  
Well No. 9386 (031-00019)

Alvin Bean 1/3  
Erin Bean 1/3  
Verona Oliver Trust 1/3  
DB 252 Pg. 182  
Tax Map 208 P 10

Thomas Price III  
DB 208 Pg. 631  
Tax Map 228 P. 9.1

NORTH

Stone Pile

S76°23'35"W  
1712.66'

N80°42'00"E  
2195.12'

S84°30'48"E  
503.98'

22" Hickory

7.5' Topo Loc.

Coordinates Well No. 9386  
WV-N Nad83 U.S. Feet  
N 234,113.90  
E 2,168,647.19

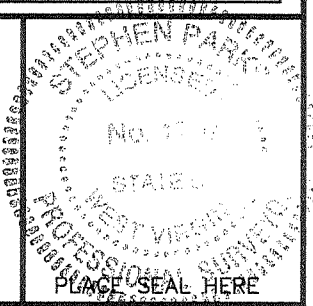
All wells within 1200' are as shown.

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

(+) 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. 34 Elevation 1920.83'

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) Stephen Parks  
R.P.E. 8982 L.L.S. 1707



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



DATE Oct. 4 2004  
OPERATOR'S WELL NO. 9386  
API WELL NO.

47 - 031 - 00019F  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 1877.08' WATER SHED North River  
DISTRICT Moorefield COUNTY Hardy  
QUADRANGLE Sector

SURFACE OWNER Columbia Gas Transmission ACREAGE 429  
OIL & GAS ROYALTY OWNER Cleland Evans et al LEASE ACREAGE 480  
LEASE NO. 57288

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  
ADDRESS P.O. Box 1273 Charleston, WV 25325-1273  
ADDRESS P.O. Box 1273 Charleston, WV 25325-1273

DEC 23 2005

Inkerman 80 (304)

FORM WW-6

COUNTY NAME PERMIT  
HARDY 0019 F

Latitude 39° 10'

Dogwood & Rock Pile,  
Service & 3 Chestnut  
Oak Ptrs. on Hillside.

CLELAND EVANS, ET AL.

Small Stone  
Pile, Small White  
Oak Ptr. on Ridge.

T. W.  
CONSTABLE.

9386

Large Hickory  
in Fence Corner  
on North Hillside.

A. W. BEANE

VIRGINIA  
N. GATES

Rock Pile by Chestnut  
Snag, 6" Gum, 10" Chestnut  
Oak Ptr. Double Chestnut  
Oak Bears 589°E-22'  
from Chestnut Snag Cor.  
on Ridge.

2.42  
-2.23  
-----  
0.19

DEGREE OF ACCURACY  
One Part in Two Hundred.

BENCH MARK  
Inkerman, W. Va. 3.3 Miles  
Southwest of, on North River  
Pike, on Northeast Corner of  
Cement Steps to Asbury Church  
300' Northeast of Road Forks.  
Chisled Square Marked 2079.6'  
Elevation: 2078.90'

NORTH RIVER

1.83 S.  
2.42 W.

6 NC (G-16)

- Fracture Before 6/5/27
- New Location
- Drill Deeper
- Redrill
- Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations. **PROVEN ELEVATION 2078.90'**

Company UNITED FUEL GAS CO.  
 Address CHARLESTON, W. VA.  
 Farm CLELAND EVANS, ET AL.  
 Tract \_\_\_\_\_ Acres 480 Lease No. 57288  
 Well (Farm) No. \_\_\_\_\_ Serial No. 9386  
 Elevation (Spirit Level) 1873.31'  
 Quadrangle MOOREFIELD - EC  
 County HARDY District MOOREFIELD  
 Engineer Byron R. Jewell  
 Engineer's Registration No. 2523  
 File No. 214-113 Drawing No. \_\_\_\_\_  
 Date APRIL 13, '66 Scale 1" = 400'

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

WELL LOCATION MAP  
FILE NO. HARD-19

+ 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 ???

66 304 Deep Well



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

*For posting  
7-20-66  
WJH*

Quadrangle Moorefield  
Permit No. HARD-19

WELL RECORD

Oil or Gas Well Gas  
(KIND)

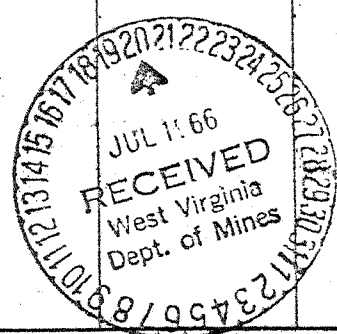
Company United Fuel Gas Company  
Address P.O. Box 1273 Charleston, W. Va. 25325  
Farm Cleland Evans, et al Acres 627 Merger  
Location (waters) North River (Cove Run)  
Well No. 9386 Elev. 1873.31'  
District Moorefield County Hardy  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Cleland Evans or Wyona Evans  
et al  
Address Kirby, W.Va.  
Drilling commenced 5-8-66  
Drilling completed 5-31-66  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 90,000 M - Oriskany Cu. Ft.  
Rock Pressure 2149 D.W. lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) \_\_\_\_\_  
WELL FRACTURED (DETAILS) \_\_\_\_\_  
RESULT AFTER TREATMENT (Initial open Flow or bbls.) \_\_\_\_\_  
ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_ HOURS  
Fresh Water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet  
Producing Sand \_\_\_\_\_ Depth \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size 16			Kind of Packer
13.3/8	110' Cemented to surf.		Size of _____
10			720 Cu. Ft. & 88 sacks neat cement
9-5/8"	1896' "	" "	Depth set _____
7"	648' Cemented with 300 sacks neat cement		
3/16			Perf. top _____
4 1/2			Perf. bottom _____
3		6552'	Perf. top _____
2 3/8			Perf. bottom _____
Liners Used _____			

Attach copy of cementing record.  
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
Amount of cement used (bags) \_\_\_\_\_  
Name of Service Co. \_\_\_\_\_  
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	Remarks
Sand			0	80	Water - hole wet to 9-5/8" casing point not enough to measure.		
Shale			80	440			
Sand & Shale			440	830			
Shale			830	1080	Gas test 6529' Est. 200 Mcf		
Sand & Shale			1080	2400	Gas 6543'		
Shale			2400	2600	Gas 6551'		
Sand & Shale			2600	4200	Gas 6556'		
Grey Shale			4200	5550			
Marcellus Shale			5550	6320	Final open flow - Natural - 41.5#		
Needmore			6320	6408	Side Static 7" 23# @ 90,000MCF		
Oriskany			6408	-			
Total Depth			6556'				
					Shut in 6-2-66 in 2-3/8" tubing.		

475



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

Well Operator's Report of Well Work

Farm name: Columbia Gas Transmission Operator Well No.: 9386

LOCATION: Elevation: 1877 ft Quadrangle: Sector

District: Moorefield County: Hardy  
Latitude: 9.529 Feet South of 39 Deg. 10 Min. 00 Sec.  
Longitude 833 Feet West of 78 Deg. 47 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 production well that was converted to a natural gas storage well - no casing was pulled or ran - tubing was pulled and new tubing ran			
Inspector: Bill Hatfield / Craig Duckworth				
Date Permit Issued: 12/20/05				
Date Well Work Commenced: 3/29/06				
Date Well Work Completed: 10/29/06				
Verbal Plugging:				
Date Permission granted on: not applicable				
Rotary X Cable Rig				
Total Depth (feet): not applicable				
Fresh Water Depth (ft.): not applicable				
Salt Water Depth (ft.): not applicable				
Is coal being mined in area (N/Y)? no				
Coal Depths (ft.): _____ ft				

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 6408 - 6556  
Gas: Initial open flow not applicable MCF/d Oil: Initial open flow not applicable Bbl/d  
Final open flow 50,000 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests not applicable Hours  
Static rock Pressure 1350 psig (surface pressure) after 72+ Hours

Second Producing formation not applicable Pay zone depth (ft) not applicable  
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: 2/27/07

RECEIVED  
Office of Oil & Gas  
Office of Chief  
MAR - 2 2007  
WV Department of  
Environmental Protection

APR 27 2007

Deep well

APR 27 2007

This is an existing production well that was converted to a natural gas storage well. Below is a summary of work performed.

- 1) Well was killed, tubing pulled, logged, new tubing ran, and new API wellhead installed.
- 2) Baker Atlas' GR-Neutron-CCL, Segmented Bond Log, and MicroVertilog.

\* Note that no earthen pit was utilized. Flowback treatment fluids recovered via steel tanks and transported to LAD in Wheeling, WV for disposal/processing.