

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

LATITUDE 39°02'30"

LONGITUDE 78°50'00"
5,739'

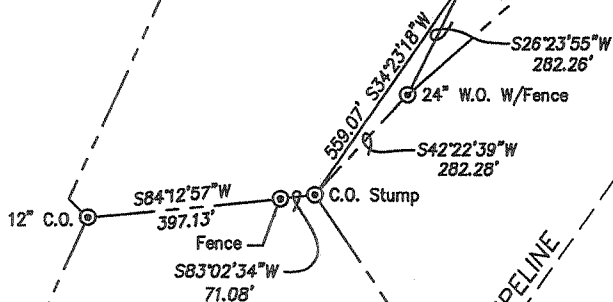
Lease
Ethel Teets et al
Lease No. 58620
118 Acres

Surface Owner
Una Teets
DB 130 Pg. 218, Third Tract
WB 22 Pg. 489
Tax Map 327 P 4

Set stone
on ridge

7.5' Topo Loc.

Existing Location
Well No. 9302 (031-00010)



Serge Taube et al
DB 212 Pg. 792
Tax Map 327 P 5

Charles Funkhouser
WB 25 Pg. 448
Tax Map 328 P 21

NORTH

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

Coordinates Well No. 9302
WV-N Nad83 U.S. Feet
N 192,292.28
E 2,157,708.89

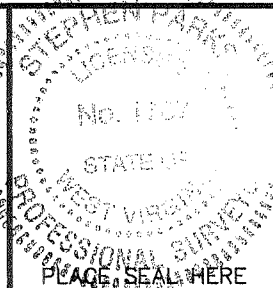
All wells within 1200' are as shown

(+) 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. 25 Elevation 2043.39'

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 Pauls

R.P.E. 8982 L.L.S. 1707



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



DATE Sept. 14 2004
OPERATOR'S WELL NO. 9302
API WELL NO.

47 - 031 - 00010F
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
LOCATION: ELEVATION 2080.56' WATER SHED Parker Hollow
DISTRICT Lost River COUNTY Hardy
QUADRANGLE Needmore

SURFACE OWNER Una Teets ACREAGE 68.50
OIL & GAS ROYALTY OWNER Ethel Teets et al LEASE ACREAGE 118
LEASE NO. 58620

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

DEC 23 2005

Lost River 80 (328)

DEC 23 2005

FORM WW-6

COUNTY NAME PERMIT

HARDY 0010 F

Latitude 39° 05'

Longitude 78° 45'

LANDIS R. WILKINS

Stake By Dead Ches. A C.O. Phrs.
544°15'E-66'
Set stone E of Ridge
C.O., B.O. & Gum Pointers

ETHEL TEETS ET. AL.

59°00'E-980'

9302

DAVID JOHNSTON HRS.

3.95 S
4.5 W

528° W-1565'

N62°15'E-1005'

N87°15'E
490'

Large Leaning C.O. in
Fence Corner.

Set Stone in Fence
Cor. of C.O. W.P.

H. ALLEN SAGER

BENCH MARK DESCRIPTION

Brass Plate in the North West Corner of the
Foundation of Landis Wilkins House, one Foot Above
The Ground. Established By The W.Va. Geological
Survey in 1920.
Stamped - W.Va. - 1920-1904', Elev. 1903.24'
Degree of Accuracy One Part in 200'

Coal Not Operated in This Area

- New Location
- Drill Deeper
- Abandonment

3.96 S
4.54 W

7 SW (G-16)

Sybert R. Ferrell

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W.VA.
 Farm ETHEL TEETS, ET. AL.
 Tract _____ Acres 118 Lease No. 58620
 Well (Farm) No. _____ Serial No. 9302
 Elevation (Trig.) 2084.05'
 Quadrangle MOOREFIELD - SE
 County HARDY District SOUTH FORK
 Engineer Sybert R. Ferrell
 Engineer's Registration No. 2529
 File No. 212-105 Drawing No. _____
 Date 10-15-53 Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. HARDY-10

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

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

Samples not received yet. 6-6-328

Deep Well



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

Quadrangle Moorefield

Permit No. Hardy - 10

WELL RECORD

Oil or Gas Well Gas

Company United Fuel Gas Company
Address Box 1273 - Charleston, W. Va.
Farm Ethel Teets Et Al Acres 512
Location (waters) Parker Hollow of Camp Branch
Well No. 9302 Elev. 2084.05
District SOUTH FORK County Hardy
The surface of tract is owned in fee by Ethel Teets, Et Al
Address Needmore, W. Va.
Mineral rights are owned by as above
Address _____

Drilling commenced 1-19-64
Drilling completed 4-10-64
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume See back _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED See back
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18 20"	18'	18'	Kind of Packer
13 - 3/8	535'	535'	Size of
18 9-5/8	2191'	2191'	Depth set
18 7"	6920	6920	Perf. top
6 3/8			Perf. bottom
5 3/16			Perf. top
3			Perf. bottom
2 - 3/8	7174	7174	Perf. top
Liners Used			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCH
_____ FEET _____ INCHES FEET _____ INCH
_____ FEET _____ INCHES FEET _____ INCH

RESULT AFTER TREATMENT 2310 gal - see back
ROCK PRESSURE AFTER TREATMENT _____
Fresh Water _____ Feet _____ Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand and Shale			0	5000'			Fresh water
Shale			5000	5790			10' - show
Marcellus Shale			5790	6755			74' - hole full
Metabentonite			6755	Top Onondaga			975' - show
Needmore Shale			6755	6870			1190 - 1 bbl/hr.
Oriskany Sand			6870	6963			
Needmore Shale			6963	6976			
Oriskany Sand			6976	7205			Show gas at 7054
Helderberg			7205	7250			EST 75M
T.D.			7250				

485



Handwritten notes:
fact @ 6976
may not be 37
7205
7250

fact @ 6976
may not be 37

Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Completion Data:							
Logging: 3-31-64 - Schlumberger							
	Gamma Ray		0	7250			
	Temp.		6880	7250			
Casing & Cement:							
20" - Used - set at 38' R.K.B. 1-20-64 Cemented to surface with 18 sacks reg. cement - 1 sk. ca cl.							
13-3/8" - 48# set at 550' R.K.B. 2-2-64 Cemented to surface with 500 sks reg. cement with 3% Ca cl.							
9-5/8" - 32# set at 2200' R.K.B. 2-20-64 Cemented to surface with 900 cu. ft. Litepoz 100 cu. ft. Neat with 1% Tic and 2% Ca cl.							
7" - 23# set at 6880 - R.K.B. 3-31-64 Cemented 200 cu. ft. neat cement with 1% Tic							
2-3/8" - 4.6# set at 7174 R.K.B. 4-14-64							
Treatment:							
Acidized 4-11-64 with 20,000 Gal. reg. 15% H.Cl. and 250 S.C.F. of Nitrogen.							
Average injection rate 10 bbl/min							
Average treating pressure 2800 psi							
Test:							
Before Acid - 75M - EST							
After Acid - 14/10 Hq 4" <u>2.316M</u>							
Rock Pressure 2310#							

Date May 11 1964

APPROVED United Fuel Gas Co ; Owner

By [Signature] (Title) Supt.

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

Well Operator's Report of Well Work

Farm name: Una Teets Operator Well No.: 9302

LOCATION: Elevation: 2081 ft Quadrangle: Needmore

District: Lost River County: Hardy
Latitude: 5.739 Feet South of 39 Deg. 02 Min. 30 Sec.
Longitude 263 Feet West of 78 Deg. 50 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 production well that was converted to a natural gas storage well – no casing was pulled or ran – tubing was pulled and re-ran			
Inspector: Bill Hatfield / Craig Duckworth				
Date Permit Issued: 12/20/05				
Date Well Work Commenced: 8/7/06				
Date Well Work Completed: 10/18/06				
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) 6976 – 7205
Gas: Initial open flow not applicable MCF/d Oil: Initial open flow not applicable Bbl/d
Final open flow 2000 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests not applicable Hours
Static rock Pressure 1200 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

RECEIVED
Office of Oil & Gas
Office of Chief
MAR - 2 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: 2/27/07

APR 27 2007

MAR 010

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, tubing re-ran, new API wellhead installed, and acid stimulation.
- 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.

APR 27 2007