

MAP SHEET-Q118133,FF4220196 FB.2193 P18-19

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200'  
 PROVEN SOURCE OF ELEVATION BM = RD. FK. EL.1097'  
 WEST MILFORD TOPO 7.5

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 MINES

(SIGNED) Danell M. Radcliffe  
 R.P.E. \_\_\_\_\_ L.L.S. 74

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE MAY 22, 19 84  
 OPERATOR'S WELL NO. 8102  
 API WELL NO. \_\_\_\_\_  
47 - 033 - 1581-DD-Frac  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1136' WATER SHED BIG BUFFALO CREEK  
 DISTRICT UNION COUNTY HARRISON  
 QUADRANGLE WEST MILFORD 7.5 W 15' NW  
 SURFACE OWNER COY L. FITZPATRICK ACREAGE 47.75a  
 OIL & GAS ROYALTY OWNER MARGARET COTTRILL (now JOHN R. MORRIS Agt.) LEASE ACREAGE 47.75a  
 LEASE NO. 52891-  
 PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER X REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BENSON ESTIMATED DEPTH 4650' 66 Jarvisville (151)  
 WELL OPERATOR CON. GAS TRANS. CORP. DESIGNATED AGENT W.A. FOX JUL 16 1984  
 ADDRESS 445 WEST MAIN STREET ADDRESS 445 WEST MAIN STREET  
AND CLARKSBURG, WEST VIRGINIA CLARKSBURG, WEST VIRGINIA

LATITUDE 39 - 15 - 00

5,650'

scaled coord:

12,920'

LONGITUDE 80 - 27 - 00

Claude Bennett

NAD 27 WV North of 8102  
N 261,732.9 E 1,722,796.5

32" White Ash

Jeff Phillips

South edge pave.  
of Rt. 32 in extd.  
prop. line fence

N 80°33'05" E  
646.45'

8102  
API 1581

Margaret Cottrill  
47.75 Acres  
Lease No. 52891

N7-30W  
643.50'

ROUTE 32

BUFFALO CREEK

Ellen Washbourne

S 74°30'00" E  
1815.00'

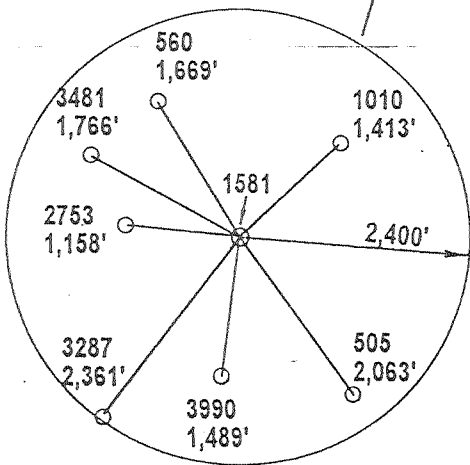
Homer Sommerville

David Post

Wm. Messenger, Jr.

7.5'

2.45  
7.08



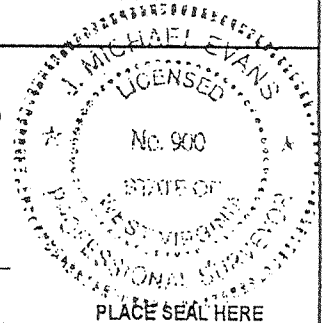
Well References: N/A

(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: \_\_\_\_\_  
 DRAWING NUMBER: \_\_\_\_\_  
 SCALE: 1" = 400'  
 MINIMUM DEGREE OF ACCURACY: 1 in 2500  
 PROVEN SOURCE OF ELEVATION: GPS Survey

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) J. Michael Evans  
 J. Michael Evans, PS 900



STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 #10 McJUNKIN ROAD  
 NITRO, WV 26143-2506  
 FORM WW-6

LAND SURVEYING SERVICES  
 21 CEDAR LANE, BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018 OR 842-5762

DATE: May 12, 2000  
 OPERATORS WELL NO.: CGTC 8102

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

API WELL NO. \_\_\_\_\_  
 STATE 47 COUNTY 033 PERMIT 1581F

LOCATION: ELEVATION 1139' WATERSHED Buffalo Creek  
 DISTRICT Union COUNTY Harrison  
 QUADRANGLE West Milford 7.5

LEASE NUMBER 52891

SURFACE OWNER Coy L. Fitzpatrick

ACREAGE 30.9

OIL & GAS ROYALTY OWNER Margaret Cottrill

LEASE ACREAGE 47.75

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_  
 PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) REWORK

PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR CNG Transmission Corp.

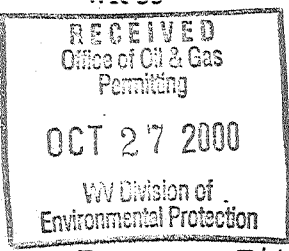
DESIGNATED AGENT James D. Blasingame

ADDRESS 445 West Main St., Clarksburg, WV 26301

ADDRESS 445 West Main St., Clarksburg, WV 26301

COUNTY NAME PERMIT

HARRISON 1581F



State of West Virginia  
 Division of Environmental Protection  
 Section of Oil and Gas

Reviewed KS

Well Operator's Report of Well Work

Farm name: Fitzpatrick, Coy L. Operator Well No.: 8102

LOCATION: Elevation: 1139' Quadrangle: West Milford 7.5

District: Union County: Harrison  
 Latitude: 5650 Feet South of 39 Deg. 15 Min. 00 Sec.  
 Longitude 12920 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Dominion CNG Transmission Corp.  
445 W Main Street  
Clarksburg, WV 26301

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Agent: <u>Brian Sheppard</u>				
Inspector: <u>Tim Bennett</u>				
Date Permit Issued: <u>6/15/00</u>				
Date Well Work Commenced: <u>9/21/00</u>		<u>See Original WR-35</u>		
Date Well Work Completed: <u>10/02/00</u>				
Verbal Plugging: <u>N/A</u>		<u>for existing casing program.</u>		
Date Permission granted on: <u>N/A</u>				
Rotary Cable <input checked="" type="checkbox"/> Rig				
Total Depth (feet):				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				

OPEN FLOW DATA

Producing formation Bayard Pay zone depth (ft) 2470-2484'  
 Gas: Initial open flow - MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 189 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests 12 Hours  
 Static rock Pressure 420# psig (surface pressure) after 12 Hours

Second producing formation \_\_\_\_\_ 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: [Signature]  
 By: Manager, Field Engineering  
 Date: 10-20-00

NOV 03 2000

HAR 1581F

COMPANY/WELL NO.: CNGT 8102

10/02/2000 PERFED AND FRACED AS FOLLOWS:

10/05/2000

BAYARD, 2470 - 2484', 20 HOLES, B.D. 1305#, AVG RATE 24 BPM, AVG PRESS 1816#,  
390 BBLs, TOT SAND 25,000#, ISIP 1570#

10/03/2000

SICP = 420#. O.F. = 189 MCF. WELL MAKING 50' EVERY HALF HOUR. T.I.L.

005 0 0 104



IV-35  
(Rev 8-81)

**RECEIVED**  
SEP 20 1984  
OIL & GAS DIVISION  
**DEPT. OF MINES**

**State of West Virginia**  
Department of Mines  
Oil and Gas Division

Date August 10, 1984  
Operator's Well No. 8102  
Farm Margaret Cottrill  
API No. 47-033-1581-DD-FR

**WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE**

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production X / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /)

LOCATION: Elevation: 1136' Watershed Big Buffalo Creek  
District: Union County Harrison Quadrangle West Milford

COMPANY Consolidated Gas Transmission Corp.

ADDRESS 445 W. Main St., Clarksburg, WV

DESIGNATED AGENT W. A. Fox

ADDRESS 445 W. Main St., Clarksburg, WV

SURFACE OWNER Coy L. Fitzpatrick

ADDRESS 143 Woodland Ave., Nutter Fort, WV 26301

MINERAL RIGHTS OWNER Coy L. Fitzpatrick

ADDRESS 143 Woodland Ave., Nutter Fort, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey  
ADDRESS Rt. 2, Box 232-D, Jane Lew, WV 25378

PERMIT ISSUED July 9, 1984

DRILLING COMMENCED July 26, 1984

DRILLING COMPLETED August 3, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7 5/8		1636	To surface
5 1/2			
4 1/2	3544	3544	100 Skts.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4680 feet

Depth of completed well 3544 feet Rotary X / Cable Tools

Water strata depth: Fresh 236 feet; Salt        feet

Coal seam depths: 80-86 Is coal being mined in the area? No

**OPEN FLOW DATA**

Producing formation Balltown, Speechley and Upper Speechley Pay zone depth see perf. feet

Gas: Initial open flow n/a Mcf/d Oil: Initial open flow        Bbl/d

Final open flow 343 Mcf/d Oil: Final open flow        Bbl/d

Time of open flow between initial and final tests n/a hours

Static rock pressure 950 psig (surface measurement) after 1 hours shut in

(If applicable due to multiple completion--)

Second producing formation        Pay zone depth        feet

Gas: Initial open flow        Mcf/d Oil: Initial open flow        Bbl/d

Final open flow        Mcf/d Oil: Final open flow        Bbl/d

Time of open flow between initial and final tests        hours

Static rock pressure        psig (surface measurement) after        hours shut in

OCT 29 1984

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Balltown Perforations: ~~3364-3367~~, ~~3380-3383~~ & ~~3386-3390~~ with 20 holes.  
Fractured with 50,000# sand, 500 bbls. of water & 750 gals. 15% acid.

Speechley Perforations: 3127-3136 with 14 holes.  
Fractured with 50,000# sand, 500 bbls. of water & 500 gals. 15% acid.

Upper Speechley Perforations: 3032-3034, ~~3044-3047~~ & 3066-3068 with 14 holes.  
Fractured with 50,000# sand, 550 bbls. of water & 750 gals. 15% acid.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Old Hole					
Pittsburgh Coal			80	86	
Dunkard			340	672	
Salt			925	1165	
Maxon			1200	1230	
Injun			1620	1718	
Fifty Foot			2025	2040	
Thirty Foot			2125	2175	
Stray			2187	2198	
Gordon			2206	2265	
Fourth			2295	2301	
Fifth			2435	2441	
Sand & Shale (New Hole)			2523	2970	
Upper Speechley			2970	3015	
Sand & Shale			3015	3070	
Speechley			3070	3102	
Sand & Shale			3102	3277	
Balltown			3277	3462	
Sand & Shale			3462	3960	
Bradford			3960	3971	
Sand & Shale			3971	4109	
Riley			4109	4119	
Sand & Shale			4119	4456	
Benson			4456	4470	
Sand & Shale			4470	4661	
Gamma Pay Tops					
Warren			2801	2837	
Upper Speechley			3003	3047	
Speechley			3127	3143	
Balltown			3277	3461	
Bradford			3833	3915	
Riley			4253	4397	
Benson			4459	4473	

4661  
2523  
2138 DD ftg.

(Attach separate sheets as necessary)

Consolidated Gas Transmission Corp.  
Well Operator

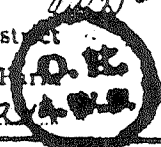
By: J. E. Yvinn / Manager of Production

Date: September 19, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

Well No. **8102** *Margaret Cottrell Harrison* District **0223**  
 Located on *W. Va.* County *Wayne* State **W. Va.**  
 District *W. Va.* County *Wayne* State **W. Va.**  
 Location Made **9-11-16** First Work Done **Sept 18, 1916**  
 Rig Commenced **Sept 28-16** Rig Completed **Oct 10-1916**  
 Drilling Commenced **Nov 23-1916** Drilling Completed **Jan 9, 1917**  
 Rig Contractor **H. H. Shannon & Co.** Drilling Contractor **H. H. Shannon**  
 Drillers **W. C. Carpenter** I. H. G. Co. Tools, String No. **Chas. Robinson**  
 Tool Dressers **A. J. ...**



FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
Live Coal	40	47 1/2	40				
Pittsburg Coal	80	86	80				
Allegheny Sandstone	340	365	340	236			
Dunkard Sand	705	735	705				
Dunkard Sand	781	875	781				
Best Salt	925	965	925				
Good Salt	1023	1032	1023				
Bad Salt	1060	1165	1060				
Coal	1200	1230	1200				1202 Not enough to test - Exp. exhausted.
Allegheny Limestone	1525	1547	1525				
Allegheny Limestone	1547	1562	1547				
Allegheny Limestone	1562	1620	1562				
Allegheny Limestone	1620	1715	1620				
Allegheny Limestone	1736	1793	1736				
Allegheny Limestone	2025	2040	2025				
Allegheny Limestone	2125	2175	2125				2168 8/10 water 2" opening.
Allegheny Limestone	2187	2198	2187				
Allegheny Limestone	2206	2265	2206				2220-26. 28/10 Mercury 2" opening.
Allegheny Limestone	2295	2301	2295				
Allegheny Limestone	2361	2366	2361				
Allegheny Limestone	2435	2441	2435				
Total Depth		2523	2523				

Well Book **Oct 15, 1917 E.C.P.**  
 Loan Book  
 Wall Map **FEB 10 1917 J.O.L.**  
 Line Map **FEB 17 1917 A.J.D.**  
 Charts **FEB 14 1917 H.B.S.**

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Before Completing		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
13" Csg.													
10" "	209	4	145		111.5						209	4	
8 1/2" "	1049	11	1028		1028						1049	11	
5-8" "	172	5	1636				1636				36	5	Steel line 1623 ft.
3-16" "	344	3	191		2191						2344	3	
2 1/2" "	3102	4	2520				2530	433	11		138	5	Steel line 2523 ft.
2" "	14		14				14						

**PACKER RECORD**

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
1	5 3/16 X 6 5/8 J.I. H.			
1	5 3/16 X 2 1/2 inch	314 7/12	227 9 5/12	Packer set at 2209 ft. Steel line.

**SHOOTING RECORD (If shot before or upon completion of well)**

DATE	Quarts	Top of Shot	Bottom of Shot	Diameter	Sand	Test Before Shot			Test After Shot			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
1-15-17	30	2218	2229 1/2	4	Sand	1 1/10	M	2"	2 2/10	M	2"	1 Hr.	Marietta Iron Co.

**CEMENTING RECORD**

Date Cemented..... Size Hole Cemented..... Size Casing Cemented.....  
 Top Pittsburg Coal..... Top Cementing..... Amount Cement Used.....  
 Bottom Pittsburg Coal..... Bottom Cementing..... Amount Sand Used.....  
 Mr..... of..... Coal Company on ground when coal was cemented  
 Remarks:..... Signature of persons who cemented well

Permit No. **033-1581**

Approved by *[Signature]* Foreman

**RECEIVED**

JUN 18 1984



1) Date: June 14, 19 84  
 2) Operator's Well No. 8102  
 3) API Well No. 47 - 033 - 1581-DD-  
 State County Permit FRAC

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIVISION  
 DEPT. OF MINES

- 4) WELL TYPE: A Oil  Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )  
 5) LOCATION: Elevation: 1136' Watershed: Big Buffalo Creek (MW27)  
 District: Union County: Harrison Quadrangle: West Milford  
 6) WELL OPERATOR Consolidated Gas Transmission 7) DESIGNATED AGENT W. A. Fox  
 Address 445 West Main Street Corp. Address 445 West Main Street  
Clarksburg, West Virginia 26301 Clarksburg, West Virginia  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Stephen Casey Name S. W. Jack Drilling Co.  
 Address Rt. 2, Box 232-D Address Indiana, Pa.  
Jane Lew, WV 26378  
 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_  
 11) GEOLOGICAL TARGET FORMATION, Benson  
 12) Estimated depth of completed well, 4650 feet  
 13) Approximate trata depths: Fresh, 236 feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: 80-86 Is coal being mined in the area? Yes  / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well			
Conductor										Kinds
Fresh water										
Coal	6 5/8						1636			Sizes
Intermediate										
Production	4 1/2	K-55	10.5	X		4650	4650	250 Sks.		Depths set
Tubing										
Liners										Perforations:
										Top Bottom
										Unknown at this time.

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-033-1581-DD-FRAC Date July 9, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires July 9, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>[Signature]</u>	Plat: <u>MU</u>	Casing: <u>J-5</u>	Fee: <u>000286</u>
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[Signature]  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File