

NOTES: This Map is For Well Location Only & Does Not Represent A Complete Property Survey. No Dwellings Or Surface Coal Operations Within 2000'.

REF: FB 2011 PG 17-19, 56 & 57  
FB 2057 PG 14

REF: INV 4280N/608E

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION Top of Concrete Pad of Well No 7461 0.80'  
Above Ground Elev 3387.84

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  
PLACE SEAL HERE

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE February 2, 2003  
OPERATOR'S WELL NO. 7465  
API WELL NO. \_\_\_\_\_

47 075 00031W  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS," PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 3345.83 WATER SHED Eiklick Run Of West Fork Of Greenbrier River  
DISTRICT Greenbank COUNTY Pocahontas  
QUADRANGLE Wildell, WV COORDINATES LAT: 38°40'46" LONG: 79°45'26"  
SURFACE OWNER United States of America Dept of Interior ACREAGE 1828.67 ±  
OIL & GAS ROYALTY OWNER USA Dept of Interior LEASE ACREAGE 48,212.33  
COAL OWNER \_\_\_\_\_ LEASE NO. 90700

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 PO Box 1273, Charleston, WV 25325-1273 ADDRESS PO Box 1273, Charleston, WV 25325-1273

POCAHONTAS COUNTY NAME PERMIT 31W

FORM W-9

DEEPWELL 9-0 QUAD (26)

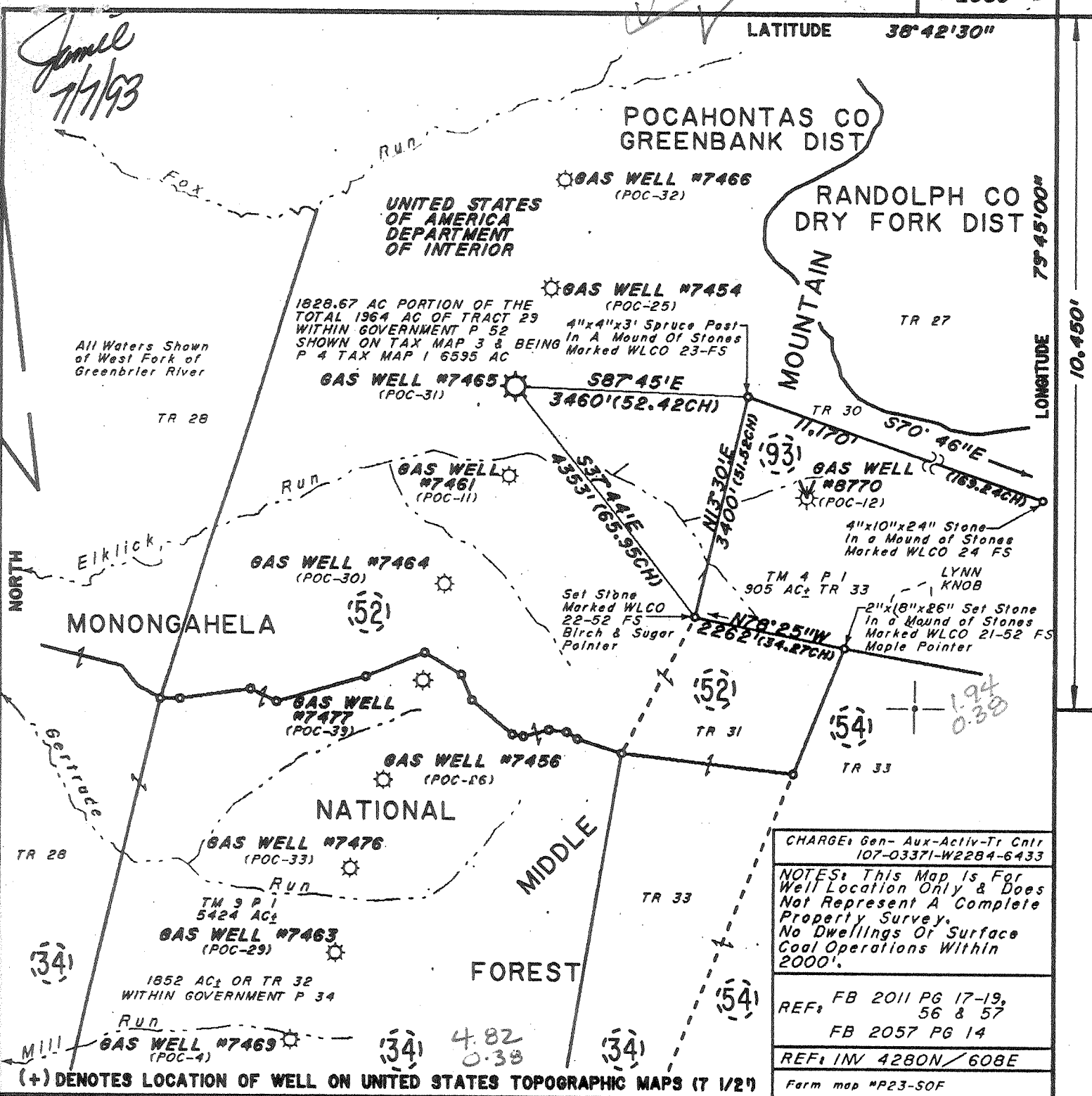
*Jamil*  
*7/1/93*

LATITUDE 38°42'30"

2050'

LONGITUDE 79°45'52"

10,450'



CHARGE: Gen-Aux-Activ-Tr Cntr  
107-03371-W2284-6433

NOTES: This Map is For Well Location Only & Does Not Represent A Complete Property Survey. No Dwellings Or Surface Coal Operations Within 2000'.

REF: FB 2011 PG 17-19, 56 & 57  
FB 2057 PG 14

REF: INV 4280N/608E

Farm map #P23-50F

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION Top of Concrete Ped of Well No 7461 0.80'  
Above Ground Elev 3387.84

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) *Charles Paul Davidson*  
R.P.E. \_\_\_\_\_ L.L.S. 819

PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION

DATE February 2, 1993  
OPERATOR'S WELL NO. 7465  
API WELL NO. 47 075 000317

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

LOCATION: ELEVATION 3345.83 WATER SHED Elklick Run Of West Fork Of Greenbrier River  
DISTRICT Greenbank COUNTY Pocahontas  
QUADRANGLE Wildell, WV COORDINATES LAT: 38°40'46" LONG: 79°45'26"

SURFACE OWNER United States of America Dept of Interior NE ACREAGE 1828.67 ±  
OIL & GAS ROYALTY OWNER USA Dept of Interior LEASE ACREAGE 98.212 ±  
COAL OWNER \_\_\_\_\_ LEASE NO. 20700

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUS OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage Recardition

PLUS AND ABANDON  CLEAN OUT AND REPLUG

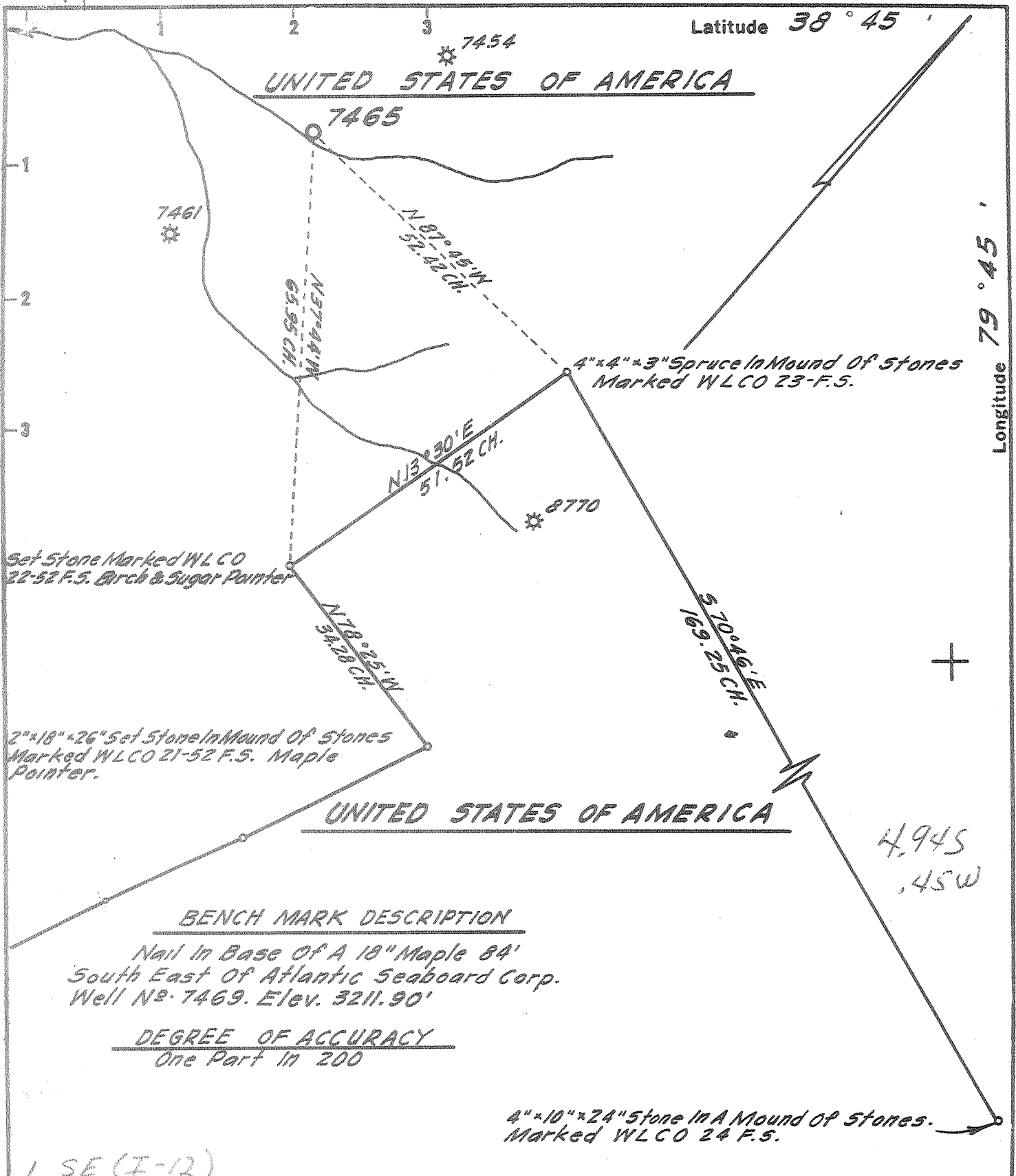
TARGET FORMATION Opitany ESTIMATED DEPTH 5940'  
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT ROBERT C WEIDNER  
ADDRESS PO Box 1273, Charleston, WV 25325-1273 ADDRESS PO Box 1273, Charleston, WV 25325-1273

POCAHONTAS COUNTY NAME PERMIT 31

DEEP WELL

9-0 (26)

JUL 9 1993



Fracture	
Before 6/5/27	<input type="checkbox"/>
New Location	<input checked="" type="checkbox"/>
Drill Deeper	<input type="checkbox"/>
Redrill	<input type="checkbox"/>
Abandonment	<input type="checkbox"/>

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 3211.90'

Company ATLANTIC SEABOARD CORP.  
 Address CHARLESTON, W. VA.  
 Farm UNITED STATES OF AMERICA  
 Tract Pt. 52 Acres 1964 Lease No. A5-700 BLM-A023190  
 Well (Farm) No. \_\_\_\_\_ Serial No. 7465  
 Elevation (Spirit Level) 3345.83'  
 Quadrangle DURBIN-NE  
 County POCAHONTAS District GREEN BANK  
 Engineer Sybert R. Howell  
 Engineer's Registration No. 2529  
 File No. 162-81 Drawing No. \_\_\_\_\_  
 Date JAN. 19, '66 Scale 1" = 1320'

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

**WELL LOCATION MAP**  
 FILE NO. POC-31

+ 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.

BENCH MARK DESCRIPTION  
 Nail in Base of A 18" Maple 84'  
 South East of Atlantic Seaboard Corp.  
 Well No. 7469. Elev. 3211.90'

DEGREE OF ACCURACY  
 One Part in 200

4" x 10" x 24" Stone in A Mound of Stones.  
 Marked WLCO 24 F.S.

4.945  
 .45W

1 SE (I-12)

9-0201

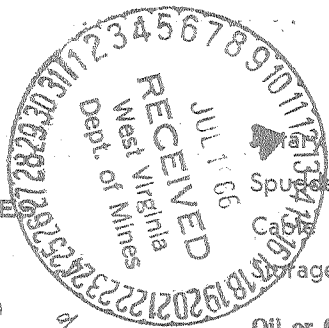
Deep Well - Oriskany Storage

Deep Well

7-12-66  
WFB



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION



- Spudger
- Cable Tools
- Page

WELL RECORD

Oil or Gas Well Gas Storage  
(KIND)

Form OG-10

Quadrangle Durbin

Permit No. POC-31

Company Atlantic Seaboard Corporation

Address P.O. Box 1273 Charleston, W. Va. 25325

Farm U.S.A. Dept. of Interior Tr. #52 Acres 48,212.33 Size

Location (waters) Elklick Run of West Fork

Well No. X-77-7465 Elev. 3345.83'

District Green Bank County Pocahontas

The surface of tract is owned in fee by \_\_\_\_\_

Address \_\_\_\_\_

Mineral rights are owned by U.S. Geological Survey

3218 General Services Bldg. Address Washington, D. C. 20242

Drilling commenced at 4-30-66

Drilling completed 5-13-66

Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

With \_\_\_\_\_

Open Flow 10ths Water in \_\_\_\_\_ Inch

10ths Merc. in \_\_\_\_\_ Inch

Volume 24,990 M - Oriskany Cu. Ft.

Rock Pressure 1200 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 45 Feet 160 Salt Water \_\_\_\_\_ Feet

Producing Sand \_\_\_\_\_ Depth \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
16 _____			Kind of Packer _____
13 <u>3/8 45'</u>	<u>Cemented with 20 sacks</u>		
10 _____			Size of _____
9 <u>2 1/8 1150'</u>	<u>Cemented with 390 cu. ft. Litepoz</u>		
8 <u>7" 5735'</u>	<u>Cemented with 200 cu. ft. Litepoz</u>		Depth set _____
5 <u>3/16</u>			
3 _____			Perf. top _____
2 <u>3/8"</u>		<u>5935'</u>	Perf. bottom _____
Liners Used _____			Perf. top _____
			Perf. bottom _____

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
Soil			0	25	Fresh water	45'	
Sand			25	120			
Sand & Shale			120	485	Fresh water	160'	
Lime & Shale			485	530			
Sand			530	690	Gas	5737, 5831, 5868'	
Shale & Lime			690	735			
Sand			735	750	Gas	5883-5888'	all gas gauged 10,280 M when completed drilling.
Sand & Shale			750	790			
Shale			790	1170			
Sand & Shale			1170	4155	Test before acidized - 14# spring gauge thru 4" 10,280 M		
Shale			4155	5170	Acidized 5-18-66 with 20,000 gallons 15% HCL acid, 2,000 gallons water overflush with 208,136 standard cu. ft. nitrogen at rate of 250 standard cu. ft. nitrogen per bbl.		
Lime (Tully)			5170	5180	Test after acidized - 55# spring gauge thru 4" 24,990 M		
Marcellus Shale			5180	5496			
Onondaga Limestone			5496	5575			
Chert			5575	5675			
Needmore Shale			5675	5728			
Oriskany Sand			5728	5930			
Helderberg Lime			5930				
Total Depth			5940'				
			5496	5728	5930		FINAL OPEN FLOW- 24,990 M Oriskany R.P. 1200#
			3346	3346	3346		Shut in 5-23-66 in 2-3/8" tubing.
			2150	2382	2584		

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

Well Operator's Report of Well Work

Permit No. \_\_\_\_\_  
Farm Name: MONONGAHELA NAT'L FOREST Operator Well No.: GLADY #7465

LOCATION: Elevation: 3,345.83 Quadrangle: WILDELL

District: GREENBANK County: POCAHONTAS  
Latitude: 10450 Feet South of 38 Deg. 42Min. 30 Sec.  
Longitude 2050 Feet West of 79 Deg. 45 Min. 0 Sec.

Company: COLUMBIA GAS TRANSMISSION  
1700 MaccORKLE AVENUE S.E.  
CHARLESTON, WV 25314-0000

Agent: ROBERT C. WEIDNER

Inspector: CRAIG DUCKWORTH  
Permit Issued: 07/09/93  
Well work Commenced: 07/22/93  
Well work Completed: 08/29/93  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) \_\_\_\_\_  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? \_\_\_\_\_  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size	The wellhead and top joint of 7' casing were replaced. The casing and wellhead were hydrostatically tested. The well was cleaned out to total depth. Sidewall cores were taken in the open hole section. The tubing (siphon string) was replaced.		
Original pulled:	-		
2-3/8"	5,923.24'	New Ran:	
2-3/8" (J-55 4.7 lb/ft)		5752.21'	
The well was acidized to remove mud damage and placed back in service.			

OPEN FLOW DATA

Storage  
~~XXXXXXXXXX~~ formation Chert-Oriskany Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/  
Time of open flow between initial and final tests \_\_\_\_\_ Hour  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hour

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/  
Time of open flow between initial and final tests \_\_\_\_\_ Hour  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hour

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE 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.

For: COLUMBIA GAS TRANSMISSION CORP.  
By: Robert C. Weidner  
Date: MAY 31 1994

JUN 3 1994

Well acidized by Halliburton Energy Services 8/19/93  
w/2000 gals. of 20% FE acid, 6 gal. HC-2, 2 gal. HAI-65.  
Treating pressure; 900 psig and pump rate; 3.5 bbl/min.  
5908' - 5728'.

29441

RECEIVED  
WV Division of  
Environmental Protection

075-0031-T

issued 07/09/93

Page 1 of 1

Expires 07/09/95

FORM WW-2B

Permitting  
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: COLUMBIA GAS TRANSMISSION CORPORATION 10450 (2) 679
- 2) Operator's Well Number: 7465 (GLADY STORAGE) API#47-075-00031 3) Elevation: 3345.83'
- 4) Well type: (a) Oil  / or Gas  (existing well)  
(b) If Gas: Production  / Underground  Storage  /  
Deep  / Shallow
- 5) Proposed Target Formation(s): Oriskany Sandstone
- 6) Proposed Total Depth: 5940 feet
- 7) Approximate fresh water strata depths: 45 ft. and 160 ft.
- 8) Approximate salt water depths: unknown
- 9) Approximate coal seam depths: unknown
- 10) Does land contain coal seams tributary to active mine? Yes  / No
- 11) Proposed Well Work: Remove existing wellhead and tubing. Install new wellhead. Clean out well to original TD. Install new tubing. Acidize to remove mud damage.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13-3/8"	H-40	48 lb./ft.	45 ft	45 ft.	20 sks. cmt.
Fresh Water						
Coal						
Intermediate	9-5/8"	H-40	32 lb./ft.	1150 ft.	1150 ft.	390 ft. <sup>3</sup> lite poz.
Production	7"	J-55/N-80	23 lb./ft.	5735 ft.	5735 ft.	200 ft. <sup>3</sup> lite poz.
Tubing	2-3/8"	J-55	4.7 lb./ft.		5935 ft.	
Liners						

PACKERS : Kind none  
Sizes \_\_\_\_\_  
Depths set

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Surety Blanket  Agent  
 (Type)

17463

00273295  
12



1) Date: June 14, 1993  
2) Operator's well number  
Well 7465  
3) API Well No: 47 - 075 - 0031 -FRAC  
State - County - Permit

JUN 2 1993  
Permitting  
Office of Oil & Gas

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name U.S. Forest Service  
Address Monongahela National Forest  
P. O. Box 1548, Elkins, WV 26241
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name U.S. Dept. of Interior, Bureau of Land Mc  
Address P. O. Box 631  
Milwaukee, WI 53201-0631
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Phillip Tracy  
Address Rt. 2, Box 37-A  
Montrose, WV 26283  
Telephone (304)-636-8798
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

*of Lease  
sh. Gas Trans  
5. Oil & Gas*

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator COLUMBIA GAS TRANSMISSION CORP.  
By: [Signature]  
Its: DIRECTOR, DRILLING & MAINTENANCE  
Address P. O. BOX 1273  
CHARLESTON, WV 25325-1273  
Telephone 304-357-2459

Subscribed and sworn before me this 21 day of June, 1993

[Signature] Notary Public  
My commission expires May 16, 2000



WR-35

02-Jul-93

API # 47- 75-00031 F

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

Well Operator's Report of Well Work

Well name: MONONGAHELA NAT'L FOREST Operator Well No.: GLADY #7465

LOCATION: Elevation: 3,345.83 Quadrangle: WILDELL

District: GREENBANK County: POCAHONTAS  
Latitude: 10450 Feet South of 38 Deg. 42Min. 30 Sec.  
Longitude 2050 Feet West of 79 Deg. 45 Min. 0 Sec.

Company: COLUMBIA GAS TRANSMISSION  
1700 MacCORKLE AVENUE S.E.  
CHARLESTON, WV 25314-0000

Agent: ROBERT C. WEIDNER

Inspector: CRAIG DUCKWORTH  
Permit Issued: 07/09/93  
Well work Commenced: 07/22/93  
Well work Completed: 08/29/93

Verbal Plugging  
Permission granted on: \_\_\_\_\_

Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) \_\_\_\_\_

Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? \_\_\_\_\_

Coal Depths (ft): \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size	The wellhead and top joint of 7" casing were replaced. The casing and wellhead were hydrpstatically tested. The well was cleaned out to total depth. Sidewall cores were taken in the open hole section. The tubing (siphon string) was replaced. Original pulled:		
2-3/8"	5,923.24'	New Ran:	
2-3/8" (J-55 4.7 lb/ft)		5752.21'	
The well was acidized to remove mud damage and placed back in service.			

OPEN FLOW DATA

Storage  
~~XXXXXXXXXX~~ formation Chert-Oriskany Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/  
Time of open flow between initial and final tests \_\_\_\_\_ Hour  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hour

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/  
Time of open flow between initial and final tests \_\_\_\_\_ Hour  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hour

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For: COLUMBIA GAS TRANSMISSION CORP.  
By: *[Signature]*  
Date: MAY 31 1994

Well acidized by Halliburton Energy Services 8/19/93  
w/2000 gals. of 20% FE acid, 6 gal. HC-2, 2 gal. HAI-65.  
Treating pressure; 900 psig and pump rate; 3.5 bbl/min.  
5908' - 5728'.

MAY 22 1999

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

Well Operator's Report of Well Work

Farm name: MONONGAHELA NAT'L FOREST Operator well No.: 7465

LOCATION: Elevation: 3,345.83 Quadrangle: WILDELL

District: GREENBANK County: POCAHONTAS  
Latitude: 10,450 Feet South of 38 Deg. 42 Min. 30 Sec.  
Longitude: 2,050 Feet West of 79 Deg. 45 Min. Sec.

Compay: COLUMBIA GAS TRANSMISSION  
P.O. BOX 1273  
CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: PHIL TRACY

Permit Issued: 07/09/93

Well work Commenced: 6/05/96

Well work Completed: 07/16/96

Verbal Plugging

Permission granted on: \_\_\_\_\_

Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) \_\_\_\_\_

Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N) ? N

Coal Depths (ft) : \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	45'	45'	cmtd w/ 20 sks
9-5/8"	1,150'	1,150'	390 cu ft. litepoz
7"	5,735'	5,735'	200 cu ft. litepoz
2-3/8" tubing siphon string		5,727'	
(SEE ORIGINAL RECORDS)			

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 5720'-5909'

Gas : Initial open flow (2" CFP) 17MMCF/d Oil : Initial open flow \_\_\_\_\_ Bbl/d

Final open flow (2" CFP) 90MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests 1800 Hours

Static rock Pressure 1953 psig (surface pressure) after 24 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.

For: COLUMBIA GAS TRANSMISSION CORP.

By: W.H. Foraker  
Date: 1/30/97

Wildell 6

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

MAY 22 1999

Well Operator's Report of Well Work

The tubing (5,750.42 ft. of 2-3/8", 4.7#/FT J-55 EUE) was snubbed out of the well 6/5/96. The well was logged with Western Atlas Logging Services' Z-Den/SWN/GR, Hex-Dip, DIFL/GR logs. The casing was cleaned w/ a casing scraper, a hydra-bast-tool with treated water (BE-3 & FR-28) and 500 gals. 15% Halliburton SWIC Acid. The well was logged w/ Western Atlas Logging Services' PDK-100 from 5878'- 5100' and w/ a GR-N from 5878'- surf 6/13/96. The decision was made not to perforate and complete the Chert Formation based on the log results. The tubing (2-3/8" 4.7#/ft, J-55, EUE) was snubbed back in the hole to 5727.68' 6/20/96. The well was then placed back in service 7/16/96. Cleanup was completed 9/5/96.

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

Well Operator's Report of Well Work

Farm name: MONONGAHELA NAT'L FOREST Operator well No.: 7465

LOCATION: Elevation: 3,345.83 Quadrangle: WILDELL

District: GREENBANK County: POCAHONTAS  
Latitude: 10,450 Feet South of 38 Deg. 42 Min. 30 Sec.  
Longitude: 2,050 Feet West of 79 Deg. 45 Min. Sec.

Compay: COLUMBIA GAS TRANSMISSION  
P.O. BOX 1273  
CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: PHIL TRACY

Permit Issued: 07/09/93

Well work Commenced: 6/05/96

Well work Completed: 07/16/96

Verbal Plugging

Permission granted on: \_\_\_\_\_

Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig

Total Depth (feet) \_\_\_\_\_

Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N) ? N

Coal Depths (ft) : \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	45'	45'	cmtd w/ 20 sks
9-5/8"	1,150'	1,150'	390 cu ft. litepoz
7"	5,735'	5,735'	200 cu ft. litepoz
2-3/8" tubing siphon string		5,727'	
(SEE ORIGINAL RECORDS)			

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 5720'-5909'

Gas : Initial open flow (2" CFP) 17MMCF/d Oil : Initial open flow \_\_\_\_\_ Bbl/d

Final open flow (2" CFP) 90MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests 1800 Hours

Static rock Pressure 1953 psig (surface pressure) after 24 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.

For: COLUMBIA GAS TRANSMISSION CORP.

By: W.H. Foraker

Date: 1/30/97

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

Well Operator's Report of Well Work

The tubing (5,750.42 ft. of 2-3/8", 4.7#/FT J-55 EUE) was snubbed out of the well 6/5/96. The well was logged with Western Atlas Logging Services' Z-Den/SWN/GR, Hex-Dip, DIFL/GR logs. The casing was cleaned w/ a casing scraper, a hydra-bast tool with treated water (BE-3 & FR-28) and 500 gals. 15% Halliburton SWIC Acid. The well was logged w/ Western Atlas Logging Services' PDK-100 from 5878'- 5100' and w/ a GR-N from 5878'- surf 6/13/96. The decision was made not to perforate and complete the Chert Formation based on the log results. The tubing (2-3/8" 4.7#/ft, J-55, EUE) was snubbed back in the hole to 5727.68' 6/20/96. The well was then placed back in service 7/16/96. Cleanup was completed 9/5/96.

*MB*

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

Well Operator's Report of Well Work

Farm name: Monongahela National Forest

Operator Well No.: Gladly #7465

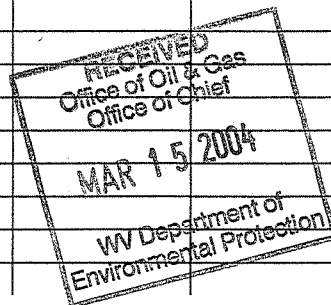
LOCATION: Elevation: 3345.83'

Quadrangle: Willdell, WV

District: Greenbank County: Pocahontas  
Latitude: \_\_\_\_\_ Feet South of 38 Deg. 40 Min. 46 Sec.  
Longitude: \_\_\_\_\_ Feet West of 79 Deg. 45 Min. 26 Sec.

Company: Columbia Gas Transmission

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: RR 2 Box 138				
Sandyville, WV 25275				
Agent: Paul Amick				
Inspector: Craig Duckworth				
Date Permit Issued: 4/10/03				
Date Well Work Commenced: 5/6/03				
Date Well Work Completed: 7/16/03				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 5940				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.):				



OPEN FLOW DATA

Producing formation **Oriskany Sandstone** Pay zone depth (ft) **5728' to 5930'**  
 Gas: Initial open flow **N/A Gas Storage** MCF/d Oil: Initial open flow **N/A Gas Storage** Bbl/d  
 Final open flow **N/A Gas Storage** MCF/d Final open flow **N/A Gas Storage** Bbl/d  
 Time of open flow between initial and final tests **N/A Gas Storage** Hours  
 Static rock Pressure **N/A Gas Storage** psig (surface pressure) after **N/A Gas Storage** 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: *John V. McCallister*  
 By: John V. McCallister  
 Date: 3/12/04

POCA 0031

APR 30 2004

- 5/14/03 - Snubbed 2-3/8" tubing out of well
- 5/28/03 - Installed new API 3M wellhead.
- 6/27/03 - Stimulated Oriskany Sandstone using;
  - 42 bbls 20% FE acid
  - 42 bbls 15% FE acid
  - 35 bbls 10% FE acid
  - 90 bbls H2O
  - All fluids foamed to 75 quality
  - 570,000 scf N2
  - ATP - 1600 psig
  - ATR - 5 bpm

No earthen pit constructed.

All fluids hauled to L.A.D. in Wheeling, WV