

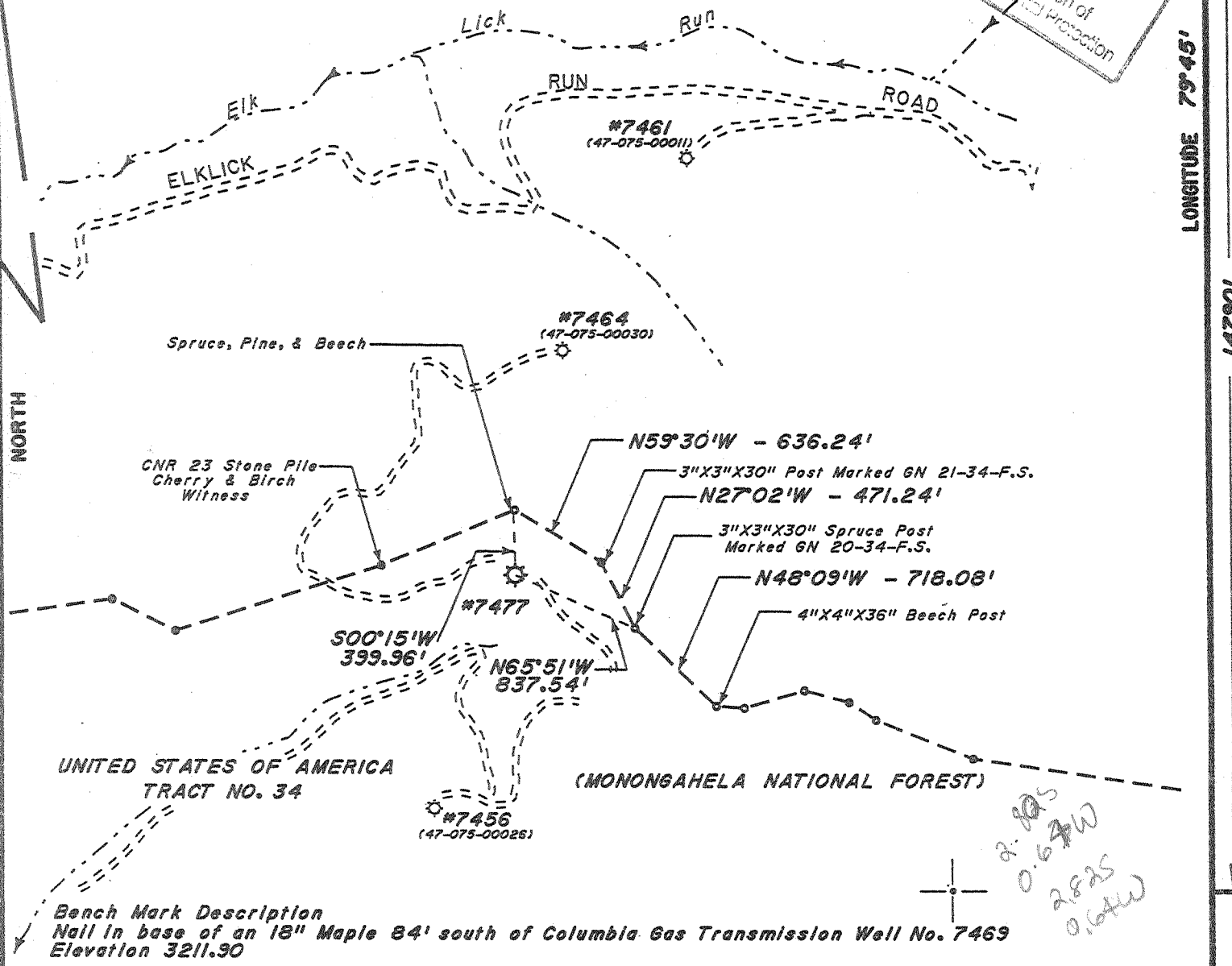
3350'

LATITUDE 38°42'30"

*Tomie  
4/16/98*

RECEIVED  
Office of Oil and Gas  
MAR 20 1998  
WV Division of  
Environmental Protection

UNITED STATES OF AMERICA  
(MONONGAHELA NATIONAL FOREST)



LONGITUDE 79°45' 14790'

NORTH

UNITED STATES OF AMERICA  
TRACT NO. 34

(MONONGAHELA NATIONAL FOREST)

Bench Mark Description  
Nail in base of an 18" Maple 84' south of Columbia Gas Transmission Well No. 7469  
Elevation 3211.90

*2.825  
0.67W  
2.825  
0.64W*

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

FILE NO. 162-81  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=2000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION See Above

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) Edna Nichols  
 R.P.E. 9936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE January 3, 1995  
 OPERATOR'S WELL NO. 7477  
 API WELL NO. 47 075-00034W

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 3482.2' WATER SHED ELKCLICK RUN OF GREENBRIER RIVER  
 DISTRICT GREENBRIER COUNTY POCAHONTAS  
 QUADRANGLE WILDELL, WV COORDINATES LONG: 79° 45' 49" LAT: 38° 39' 49"  
 SURFACE OWNER U.S. Department Of Interior ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER U.S. Department Of Interior LEASE ACREAGE 1852  
 COAL OWNER U.S. Department Of Interior 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  
Existing well drilled in 1966 by Atlantic  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Chickens ESTIMATED DEPTH 61349  
 WELL OPERATOR COLUMBIA GAS TRANS CORP DESIGNATED AGENT RICHARD L. COTY  
 ADDRESS PO BOX 1273, CHARLESTON, WV 25325 ADDRESS PO BOX 1273, CHARLESTON, WV 25325

APR 21 1998

DEEP WELL

POCAHONTAS COUNTY NAME PERMIT 0034 W

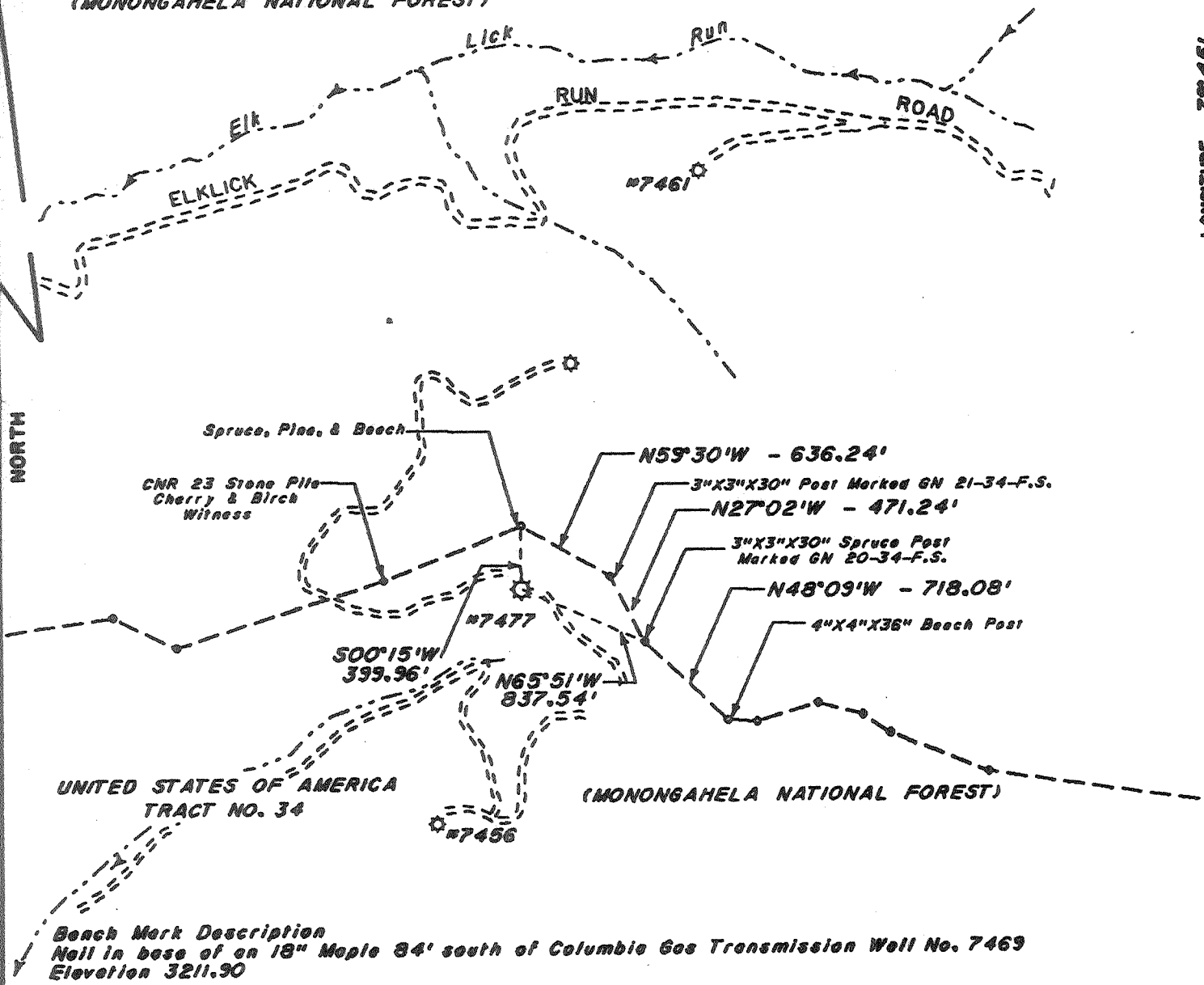
FORM 9-88A (REV)

*Jamil*  
9/3/95

LATITUDE 38°40'



UNITED STATES OF AMERICA  
(MONONGAHELA NATIONAL FOREST)



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

FILE NO. 162-81  
DRAWING NO. \_\_\_\_\_  
SCALE 1"=1000'  
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PROVEN SOURCE OF ELEVATION See Above

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(SIGNED) Edwin K. Mitchell  
R.P.E. 2936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE January 3, 19 95  
OPERATOR'S WELL NO. 7477  
API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 3489.12' WATER SHED ELKCLICK RUN OF GREENBRIER RIVER  
DISTRICT GREENBRIER COUNTY POCAHONTAS  
QUADRANGLE WILDELL, WY COORDINATES LONG: 79° 45' 49" LAT: 38° 39' 49"

SURFACE OWNER USA DEPT OF INTERIOR ACREAGE \_\_\_\_\_  
OIL & GAS ROYALTY OWNER USA DEPT OF INTERIOR LEASE ACREAGE 1852  
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 Chert-Discon ESTIMATED DEPTH 6149'  
WELL OPERATOR COLUMBIA GAS TRANS CORP DESIGNATED AGENT RICHARD L. COTY  
ADDRESS PO BOX 1273, CHARLESTON, WY 25325 ADDRESS PO BOX 1273, CHARLESTON, WY 25325

SEP 5 1997

REF WELL

POCAHONTAS  
COUNTY NAME  
1496  
PERMIT

Jamil  
9/3/95

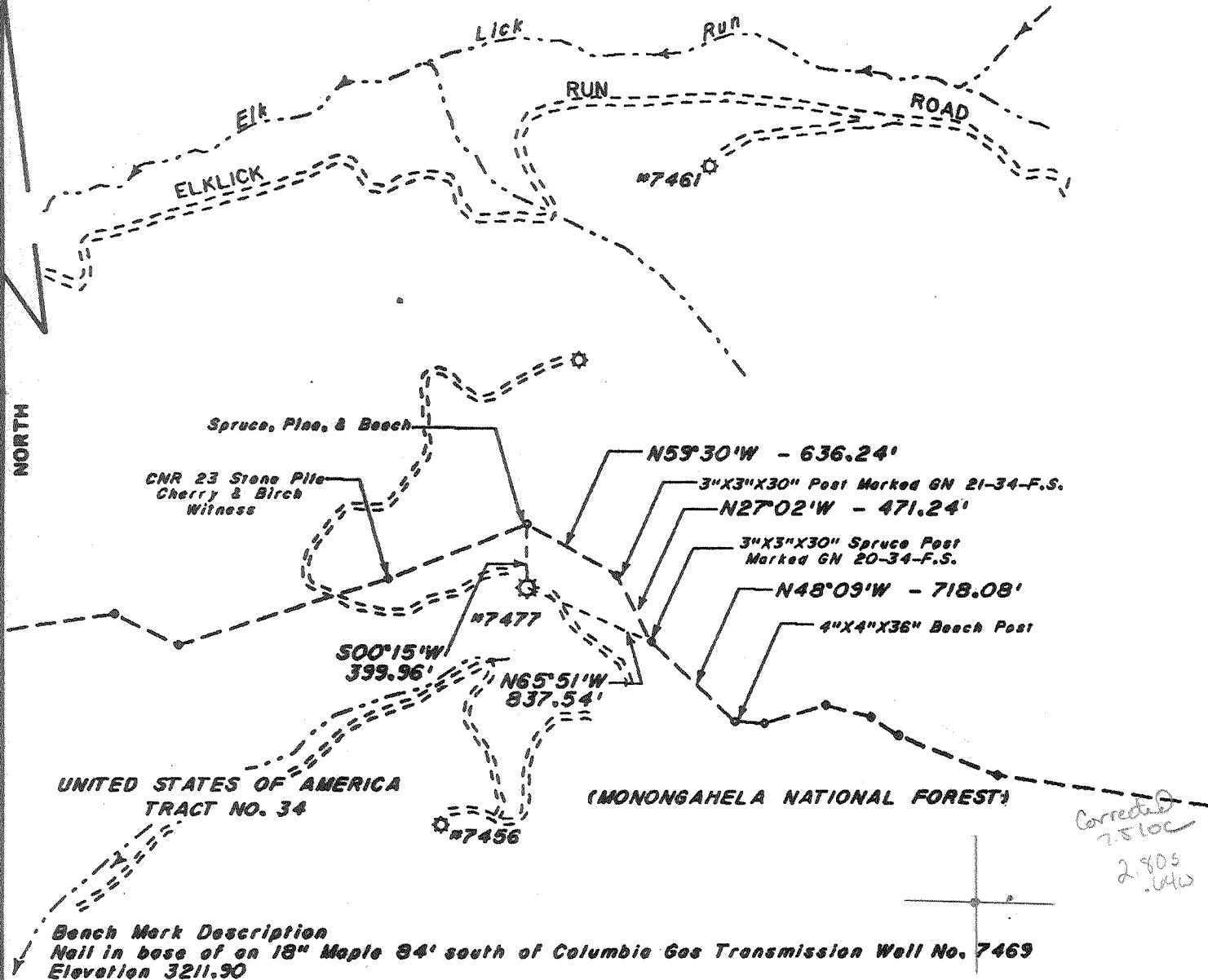
LATITUDE 38°40' 384230



2805  
0.750

1005'

UNITED STATES OF AMERICA  
(MONONGAHELA NATIONAL FOREST)



LONGITUDE 79°45'

NORTH

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

FILE NO. 162-81  
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 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION See Above

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(SIGNED) Edwin Mitchell  
 R.P.E. 9936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE January 3, 19 95  
 OPERATOR'S WELL NO. 7477  
 API WELL NO. \_\_\_\_\_

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

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 DISTRICT GREENBRIER COUNTY POCAHONTAS  
 QUADRANGLE WILDELL, WV COORDINATES LONG: 79° 45' 49" LAT: 38° 39' 49"

SURFACE OWNER USA DEPT OF INTERIOR ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER USA DEPT OF INTERIOR LEASE ACREAGE 1852  
 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 Chert-Quartz ESTIMATED DEPTH 6149'

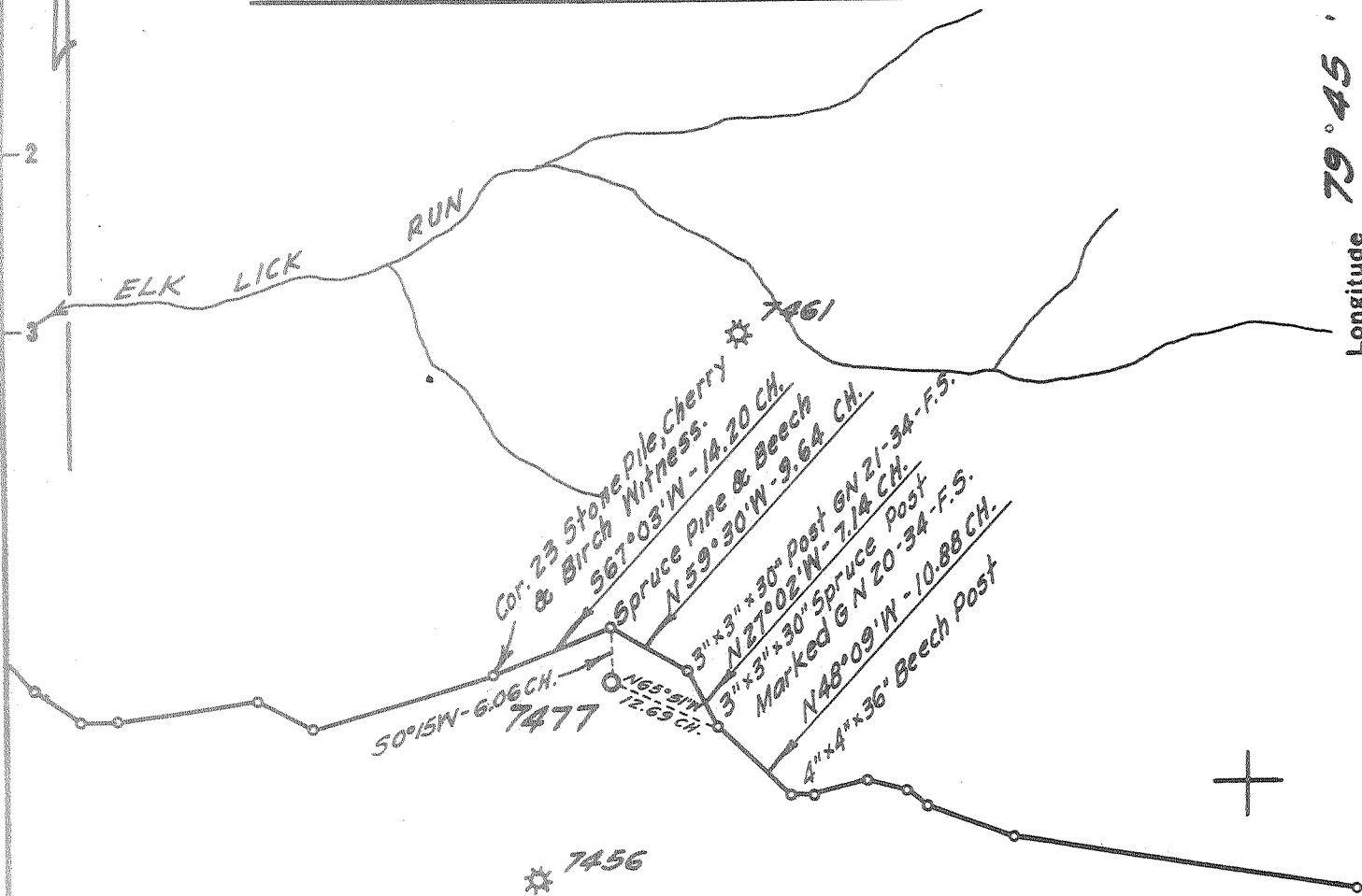
WELL OPERATOR COLUMBIA GAS TRANS CORP DESIGNATED AGENT RICHARD L. COTY  
 ADDRESS PO BOX 1273, CHARLESTON, WV 25325 ADDRESS PO BOX 1273, CHARLESTON, WV 25325

POCAHONTAS  
COUNTY NAME  
1496  
PERMIT

Latitude 38° 45'

Longitude 79° 45'

UNITED STATES OF AMERICA



UNITED STATES OF AMERICA  
TR. NO 34

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

5.72 S  
.70 W

1-SE(I-12)

- 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 3211.90'**

Company ATLANTIC SEABOARD CORP.

Address CHARLESTON, W. VA.

Farm UNITED STATES OF AMERICA

Tract 34 Acres 1852 BLM-A-022926 Lease No. 45-700

Well (Farm) No. \_\_\_\_\_ Serial No. 7477

Elevation (Spirit Level) 3489.19'

Quadrangle DURBIN-NE

County POCAHONTAS District GREEN BANK

Engineer Hubert R. Kneill

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

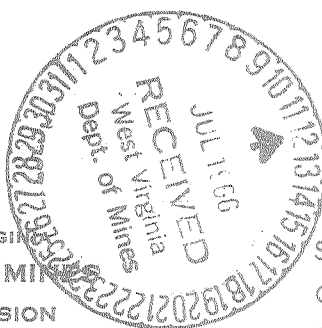
WELL LOCATION MAP  
FILE NO. POC-34 ✓

+ 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.

9-0 261

Deep Well - Oriskany Storage



Deep Well

7-12-66  
WJ

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Durbin  
Permit No. POC-34

WELL RECORD

Oil or Gas Well Gas Storage  
(KIND)

Company Atlantic Seaboard Corporation  
Address P.O. Box 1273 Charleston, W. Va. 25325  
Farm U.S.A. Dept. of Interior Tr.#34 Acres 48,212.33  
Location (waters) Gertrude Run  
Well No. X-77-7477 Elev. 3489.19'  
District Green Bank County Pocahontas  
The surface of tract is owned in fee by \_\_\_\_\_  
Mineral rights are owned by U. S. Geological Survey  
3218 General Services Bldg. address Washington, D.C. 20242

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8	35'	Cemented with 20 sacks	
10			Size of
9-5/8"	1332'	Cemented with 390 Cu. Ft. Litepor & 100 cu. ft. neat cement	Depth set
6 5/8"			
5 7/8"	5937'	Cemented with 299 cu. ft. Litepor & 500 gals. cement	
3			Perf. top
2 3/8"	6139'		Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced 5-2-66  
Drilling completed 5-17-66  
Date Shot From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume 14,600 M - Oriskany ✓ Cu. Ft.  
Rock Pressure 1295 lbs. = \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) \_\_\_\_\_  
WELL FRACTURED (DETAILS) \_\_\_\_\_

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

RESULT AFTER TREATMENT (Initial open Flow or bbls.) \_\_\_\_\_  
ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_ HOURS \_\_\_\_\_  
Fresh Water 495' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand \_\_\_\_\_ Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	29	Fresh water	495'	
Sand & Sandy Shale			29	935			
Sandy Shale & Shells			935	1130	Gas	5937'	estimated 300 Mcf
Shale & Sand			1130	1334			
Sand & Shale			1334	5150	Gas	6084'	
Shale - black			5150	5310	Gas	6099'	
Lime			5310	5325	Test	6137'	10# spring gauge thru 4"
Shale			5325	5405		8,690 Mcf	
Lime (Tully)			5405	5415			
Marcellus Shale			5415	5730	Test after running tubing 11# spring gauge thru 4" opening	9,120 M	
Onondaga Lime			5730	5780			
Chert			5780	5870			
Needmore Shale			5870	5928	Test before acidized 11# spring gauge thru 4" opening	9,120 M	
Oriskany Sand			5928	6140	Acidized 5-21-66 with 20,000 gallons 15% HCL acid, 2,000 gallons water overflush with 225,232 standard cu. ft. nitrogen at rate of 250 standard cu. ft. nitrogen per bbl.		
Helderberg Lime			6140		Test after acidized - 26# spring gauge thru 4" opening	14,600 Mcf	
Total Depth			6149'				
			5730	5928			
			3489	3489			
			2241	2439			
				6140			
				3489			
				2651			

FINAL OPEN FLOW- 14,600 M - Oriskany  
R.P. 1295#  
Shut in 5-29-66 in 2-3/8" tubing.

075 34 W  
Issued 07/19/95

FORM WW-2B

JUN 22 1995

Expires Page 1 of 1  
07/19/97

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
Office of Oil & Gas WELL WORK PERMIT APPLICATION

10450 (2) 680

- 1) Well Operator: <sup>175</sup> COLUMBIA GAS TRANSMISSION CORP.
- 2) Operator's Well Number: 7477 3) Elevation: 3489.19'
- 4) Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production \_\_\_ / Underground Storage X /  
Deep X / Shallow \_\_\_ /
- 5) Proposed Target Formation(s): <sup>475</sup> CHERT-ORISKANY (WORKOVER)
- 6) Proposed Total Depth: (ORIGINAL TD) 6149 feet
- 7) Approximate fresh water strata depths: 495 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 X /
- 11) Proposed Well Work: WELLHEAD REPLACEMENT, TUBING REPLACEMENT, PARTIAL CASING REPLACEMENT, REPERFORATE (INCLUDING PERFORATING SECTIONS OF THE CHERT) AND ACIDIZE.
- 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"	H40	48#		35'	20. SKS.
Fresh Water	9-5/8"	H40	32#		1332'	390' <sup>3</sup> LITEPOZ & 100 FT. <sup>3</sup> NEAT
Coal						385R/14/1.3
Intermediate						385R/14/1.2.2
Production	7"	J-55.N-80	23#		5937'	200' <sup>3</sup> LITEPOZ & 500 GAL. CEAL-
Tubing	2-3/8"	J-55	4.7#		6139'	MENT
Liners						385R/14/1.1

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

For Division of Oil and Gas Use Only

260  
3+

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



**RECEIVED**  
WV Division of  
Environmental Protection  
**JUN 22 1995**

1) Date: 4/27/95  
2) Operator's well number 7477  
3) API Well No: 47 - 075 - 00034  
State - County - Permit

Permitting  
Office of Oil & Gas  
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION 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 \_\_\_\_\_  
6) Inspector PHILLIP TRACY  
Address RT. 2, BOX 37-A  
MONTROSE, WV 26283  
Telephone (304)- 636-8798

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name U.S. DEPT. OF INTERIOR, BUREAU OF LAND  
Address P.O. BOX 631 MGT.  
MILWAUKEE, WI 53201-0631  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

*Handwritten: To the Lease in Columbia Office 4/27/95*  
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  
X 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)  
X \_\_\_\_\_ 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.

OFFICE OF NOTARY PUBLIC  
PHILLIP M. DRULON  
COLUMBIA GAS TRANSMISSION CORP.  
P.O. BOX 1273 - CHARLESTON, WV 25325  
NOTARY COMMISSION EXPIRES 11-20-2001

Well Operator COLUMBIA GAS TRANSMISSION CORP.  
By: Richard L. Coby  
Its: MANAGER - WELL SERVICES  
Address P. O. BOX 1273  
CHARLESTON, WV 25325-1273  
Telephone 304-357-3034

Subscribed and sworn before me this 16<sup>th</sup> day of May, 1995  
Phillip M. Drulon Notary Public  
My commission expires November 20, 2001

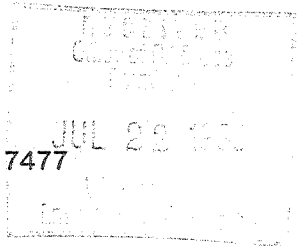
WR-35

23-Jun-98  
API # 47- 75-00034 W

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

Well Operator's Report of Well Work

Farm name: U.S. DEPT INT. Operator well No.: GLADY STG. 7477  
LOCATION: Elevation: 3,489.19' Quadrangle: WILDELL  
District: GREENBANK County: POCAHONTAS  
Latitude: 14,790 Feet South of 38 Deg. 42 Min. 0 Sec.  
Longitude: 3,350 Feet West of 79 Deg. 45 Min. 0 Sec.



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

Agent: RICHARD L. COTY  
Inspector: CRAIG DUCKWORTH  
Permit Issued: 04/14/98  
Well work Commenced: 04-15-98  
Well work Completed: 05-05-98  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 6,149'  
Fresh water depths (ft) See Original  
Records  
Salt water depths (ft) See Previous  
Is coal being mined in area (Y/N) ? N  
Coal Depths (ft) : See Previous

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
STIMULATION; SEE OPPOSITE SIDE FOR DETAILS			

OPEN FLOW DATA

Producing formation ORISKANY SAND Pay zone depth (ft) 5,928'-6,140'  
Gas : Initial open flow 5,091 MCF/d Oil : Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow N/A MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 886 psig (surface pressure) after 48 Hours  
(TESTED 4/25/97)  
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: 7/17/98

JUL 27 1998

POCAHONTAS 0034 W



WR-35

23-Jun-98  
API # 47- 75-00034 W

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

Well Operator's Report of Well Work

COLUMBIA ran a slickline weight to check the TD on 04-15-98. The present TD is recorded as 6,149' GL. The slickline weight set down on fill material at 6,086'GL.

Halliburton Energy Services was moved in on May 28, 1998. The coiled tubing unit was set up and coiled tubing was injected into the bottom of the 2-3/8" tubing. The well was cleaned out with treated water and nitrogen to a depth of 6,145' GL as measured with the coiled tubing. The casing was "pickled" by injecting 500 gals Halliburton 15% FE acid through the coiled tubing and allowed to flow out the 7" x 2-3/8" annulus. The acid was displaced out of the coiled tubing with treated water and nitrogen.

The well was treated on 04-29-98 with 350 gals Halliburton 20% FE acid as a spearhead. Then followed by 10,000 gals 75 Quality Halliburton 20% FE foamed acid @ 20 BPM, and 1,860 psig average treating pressure. Followed by 10,000 gals 75 Quality Halliburton 15% FE foamed acid @ 20 BPM with an average treating pressure of 2,120 psig. The foamed acid was displaced with 14,600 gals equivalent 75 Quality foamed treated freshwater @ 20 BPM and 2,040 psig. This was flushed with 840 gals treated freshwater.

Additives in water: FE5A, BA-2, and BE-3S.

Additives in FE acid: FE1-A, HAI-81, SCA-130, PENN-88, and HC-2.

AVERAGE RATE=20BPM

AVERAGE TREATING PRESSURE=1,904 PSIG

Recovered 155 bbls of 234 bbls total fluids on flowback, 4-28-98, through 4-29-98.

Fluids removed from location and transported for disposal @ Max Environmental (Allegheny Liquid Systems) in Pittsburgh PA on 5-5-98.

Remaining equipment was moved off location 5-5-98.