

150'

LATITUDE 38°47'30"

*Janice
12/2/96*

LONGITUDE 79°42'30"

7050'

NORTH

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Elev. 2923.00'
USGS BM on conc. foundation of culvert over Gladly Creek at water edge and at the mouth of Lout Run. Stamped 38 JEA

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) *Edward Nicholson*
 R.P.E. 9936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE OCTOBER 25, 19 96
 OPERATOR'S WELL NO. 7439
 API WELL NO. 47 083-00084 W

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

LOCATION: ELEVATION 3267' WATER SHED EAST FORK OF GLADLY CREEK
 DISTRICT DRY FORK COUNTY RANDOLPH
 QUADRANGLE GLADLY COORDINATES LAT. 38°46'19" LONG. 79°42'32"

SURFACE OWNER WESTVACO CORP. ACREAGE 30 ±
 OIL & GAS ROYALTY OWNER USA DEPT OF INTERIOR LEASE ACREAGE 48212.33
 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
Well drilled by Hope in 1956 TD-5199

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Oriskany ESTIMATED DEPTH 5044' DEC 6 1996
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT RICHARD L. COTY
 ADDRESS P.O. BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS P.O. BOX 1273, CHARLESTON, WV 25325-1273

FORM WV-6

RANDOLPH COUNTY NAME PERMIT 00084

0908 well 1

NIF WESTVACO CORP.

NIF DONALD RUNYON

USA MARKER CONC. MON. CA-700

UNITED STATES OF AMERICA (TRACT #17)

WELL #7436

WELL #7437

WELL #7438

WELL #7441

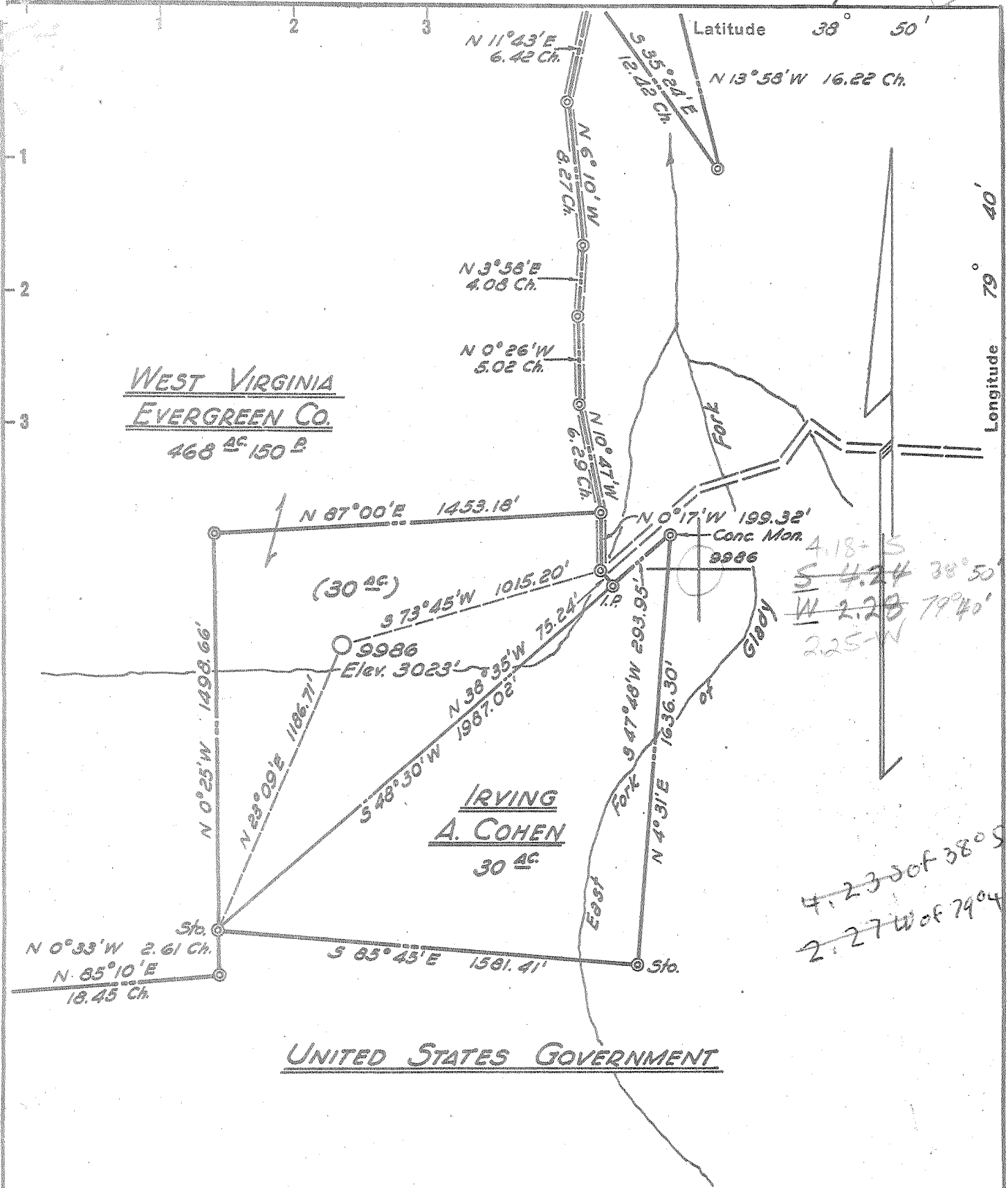
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WEST VIRGINIA
EVERGREEN CO.
468 AC 150 B

IRVING
A. COHEN
30 AC

UNITED STATES GOVERNMENT

New Location, 9986 - UNIT
Drill Deeper.....
Abandonment.....

Map Sht. 56-E; S-49, E-48; F.B. 1140, P.6-9 & 24-25

Company	HOPE NATURAL GAS CO.		
Address	CLARKSBURG, W. VA.		
Farm	W. VA. EVERGREEN COMPANY		
Tract	Acres	Lease No.	30 634124 30 61980
Well (Farm) No.	Serial No. 9986		
Elevation (Spirit Level)	3023'		
Quadrangle	HORTON - SW		
County	RANDOLPH District DRY FORK		
Engineer	Guy H. Bradley		
Engineer's Registration No.	2425		
File No.	Drawing No.		
Date	APRIL 9, '56 Scale 1" = 500'		

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

WELL LOCATION MAP
FILE NO. RAN-84

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Horton

Permit No. RAN-84 SW

WELL RECORD

Oil or Gas Well Gas
(KIND)

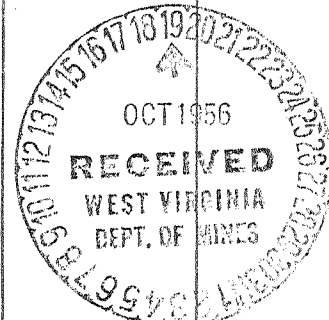
Company Hope Natural Gas Company
Address Clarksburg, W. Va.
Farm W. Va. Evergreen Company Acres 60
Location (waters) _____
Well No. 9986 Elev. 3023'
District Dry Fork County Randolph
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced April 25, 1956
Drilling completed August 23, 1956
Date Shot Not Shot From _____ To _____
With Fractured
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 2,037 M Cu. Ft.
Rock Pressure 2020# lbs. _____ hrs.
Oil None bbls., 1st 24 hrs.
Fresh water 62' feet _____ feet
Salt water None Recorded feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13	23	23	
10	505	505	Size of
8 1/4	1892	1892	
6 5/8	4704	4704	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

8" cemented with 35 bags
CASING CEMENTED SIZE No. Ft. Date
7" cemented with 60 bags Uniflo

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
No Coal
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	18			
Lime			18	200	Water	62'	Hole Full
Slate & Shells			200	380			
Lime			380	450			
Slate & Shells			450	570			
Lime			570	610			
Slate & Shells			610	2160			
Lime			2160	2270			
Slate & Shells			2270	2750			
Dark Lime			2750	2850			
Slate & Shells			2850	2925			
Grey Lime			2925	3000			
Slate & Shells			3000	3550			
Dark Slate			3550	3840			
Slate & Shells			3840	3940			
Brown Shale			3940	4212			
Black Shale			4212	4260			
Brown Shale			4260	4325			
TULLY			4325	4344			
Brown Shale			4344	4450			
Shale			4450	4530			
Brown Shale (Limy)			4530	4588			
Black Shale <i>Mars Hill</i>			4588	4662			
Brown Break			4662				
Onondaga			4662	4703			
CHERT			4703	4847			
ORISKANY			4847	5032	Gas	4862	
HELDERBERG LIME			5032	5159			
TOTAL DEPTH				5159'			
				485			
			4662	4847			



October 18, 1956
Jack *[Signature]*
Hope Natural Gas Company

3023 (over) 3023

1639 - 1824

CHOCORUA AIN W

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CHOCORUA AIN W

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

08384 Fac.

175

Well Operator: COLUMBIA GAS TRANSMISSION CORPORATION 10950 369

Operator's Well Number: Gladys Stg # 7439 (API 47-083-00084) 3) Elevation: 3,023 feet

Well type: (a) Oil / or Gas X /
(b) If Gas: Production / Underground Storage X /
Deep X / Shallow /

Issued 12/04/96
Expires 12/04/98

RECEIVED
Environmental Protection
NOV 18 1996
Permitting
Office of Oil & Gas

Proposed Target Formation (s): Oriskany 475

6) Proposed Total Depth: 5044' (orig. TD was 5159' before plug back) feet

7) Approximate fresh water strata depths: 62'

8) Approximate salt water strata depths: NONE RECORDED

9) Approximate coal seam depths: NONE RECORDED

10) Does land contain coal seams tributary to active mine? Yes / No X /

11) Proposed Well Work: Columbia proposes to clean the well to the original TD with a coiled tubing unit. The well will be logged with cased and open hole logs. The well will be acidized or fractured across the Oriskany section as determined by the well logs. The well will then be cleaned up, flow tested and placed back in service.

12) CASING AND TUBING PROGRAM

Exclusions from Well Records

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), and CEMENT (Fill - up). Rows include conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

PACKERS: Kind None
Sizes
Depths set

001/2/25/33

For Division of Oil and Gas Use Only

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

Blumfeld (Type)

RECEIVED
Division of Environmental Protection
NOV 18 1996
Permitting
Office of Oil & Gas

- 1) Date: 10/24/96
- 2) Operator's well number GLADY WELL 7439
- 3) API Well No: 47 - 083 - 00084 -W
State - County - Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
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 Westvaco Corporation
Address PO Box-577
Rupert, WV 25984
 - b) Name _____
Address _____
 - c) Name _____
Address _____
- 6) Inspector Phillip Tracy
Address Route 2, Box 37-A
Montrose, WV 26283
Telephone (304) - 636-8798

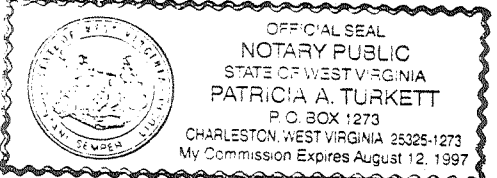
- 5) (a) Coal Operator:
Name _____
Address _____
- (b) Coal Owner (s) with Declaration
Name Westvaco Corporation 1/2 Interest
Address PO Box-577
Rupert, WV 25984
Name Donald Runyon 1/2 Interest
Address 113 Deerwood Lane
Easley, South Carolina, 29642
- (c) Coal Lessee with Declaration
Name _____
Address _____

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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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 22-6 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: WN Foraker
Its: Senior Storage Engineer / Well Services
Address Route 3, Box 216
Elkins, WV 26241
Telephone 304/636-8129

Subscribed and sworn before me this 4th day of November, 19 96
Patricia A. Turkett Notary Public
My commision expires August 12, 1997

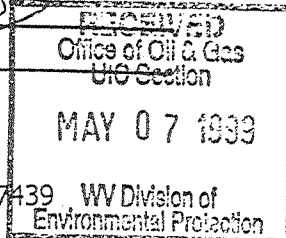
WR-35

03-Dec-96

API # 47- 083-00084-W

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

Reviewed 18



Well Operator's Report of Well Work

Farm name: U. S. FOREST SERVICE

Operator Well No.: GLADY 7439

LOCATION: Elevation: 3,267.00 Quadrangle: GLADY

District: DRY FORK County: RANDOLPH
Latitude: 7050 Feet South of 38 Deg. 47 Min. 30 Sec.
Longitude: 150 Feet West of 79 Deg. 42 Min. 30 Sec.

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

Agent: RICHARD L. COTY
Inspector: PHILLIP TRACY

Permit Issued: 12/04/96
Well work Commenced: 06/18/97
Well work Completed: 08/28/97

Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig
Total Depth (feet) 5,044'

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

OPEN FLOW DATA

Producing formation ORISKANY Pay zone depth (ft) 4,847' - 5,032'
Gas : Initial open flow 6090 MCF/d Oil : Initial open flow _____ Bbl/d
Final open flow 5062 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 462 Days Hours
Static rock Pressure 1935 psig (surface pressure) after 4 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 : William H. Fraker
Date : May 4, 1999

RAN DOB W

MAY 17 1999

WR-35

03-Dec-96

API # 47- 083-00084-W

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

Well Operator's Report of Well Work

STIMULATION

- Acidized on 07-01-97
- Halliburton Foamed Acid Job.
- Treated with 6,405 gals equivalent 15% Halliburton 60 Quality FE Foamed Acid followed by 6,300 gals equivalent 10% Halliburton 60 Quality FE Foamed Acid. Flushed with 2,625 gals equivalent 60 quality foam and 3,150 gals H₂O.
- Total acid 3,036 gallons 28% Halliburton FE acid (uncut).
- Total nitrogen 334,000 scf.
- Additives: 30 gals FE-1A; 15 gals-HAI-81; 15 gals-SCA-130; 3 gals-FESA; 24 gals-HC2; 18 lbs-BA-2; 15 gals PENN-88.