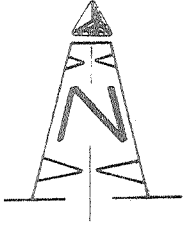
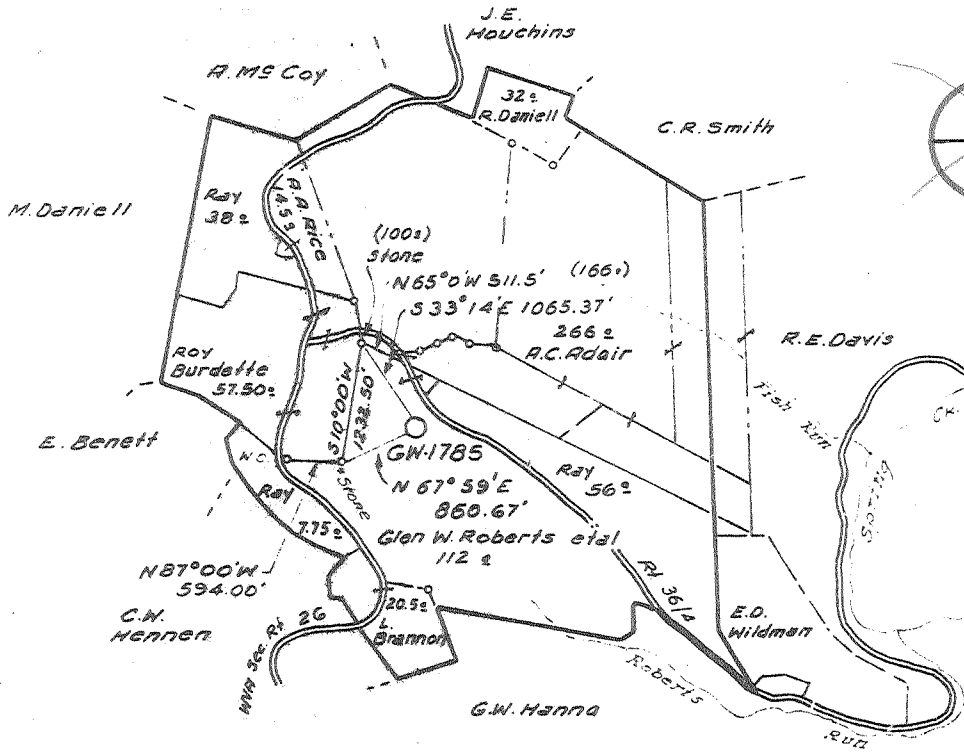


LATITUDE 38° 57' 30"
 (15') 39° 00'

LONGITUDE 81° 20'



TOPO. LOCATION



CERTIFICATE

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT 3/23/78

"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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200

Signed _____

COMPANY CITIES SERVICE COMPANY
 ADDRESS BOX 873 CHARLESTON, W. VA.
 FARM GLEN W. ROBERTS ETAL (CONSOL) #1
 MAP _____ ACRES 112 LEASE NO. PR77-1151
 WELL (FARM) NO. 1 SERIAL NO. GW-1785
 ELEVATION (SPIRIT LEVEL) 1105.84'
 QUADRANGLE BURNING SPRINGS, Spencer 15'
 COUNTY WIRT DISTRICT SPRING CREEK
 POINT OF PROVEN ELEVATION USGS BM 1043 - STANDARD DISK - INTERSECTION WV SEC. RTS. 14/13 AND 26
 FILE NO. _____ DRAWING NO. W-7-77
 DATE AUG. 19, 1977 SCALE 1" = 2000'

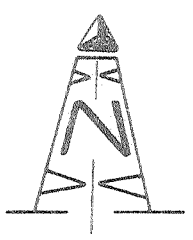
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. WIR-746-P
 APR 10 1978
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 24,000. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN. 47-105
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

Deep Well

1-0

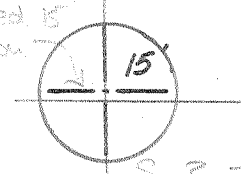
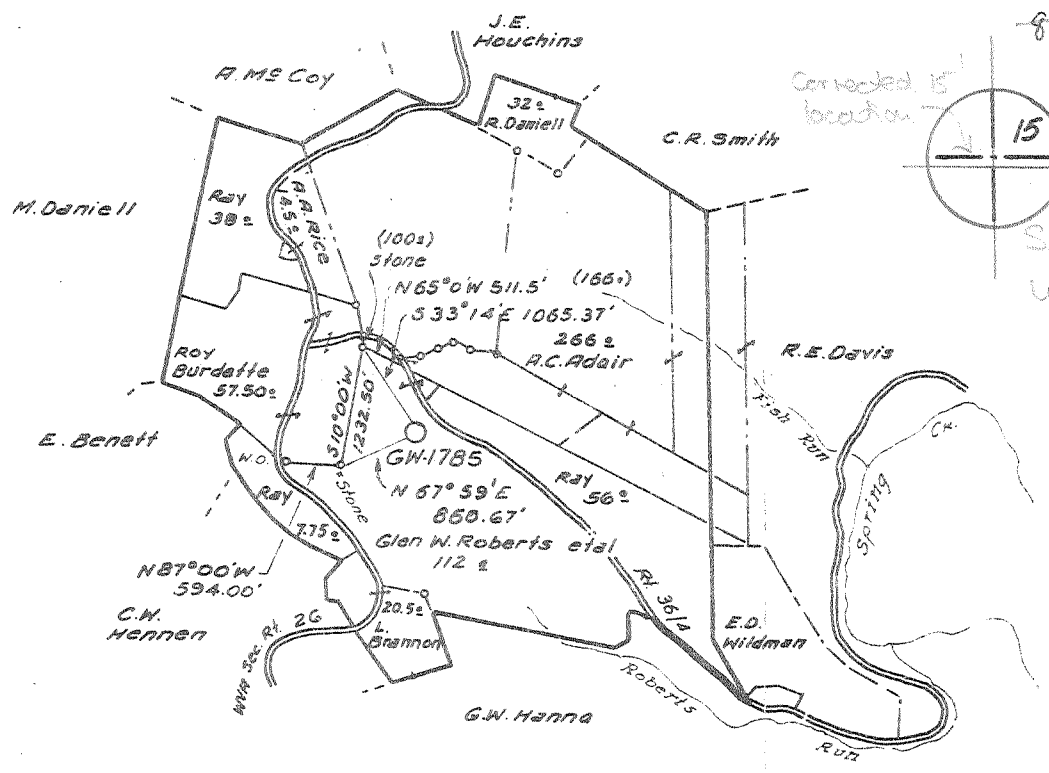
LATITUDE 38° 57' 30"
 (15') 39° 00'

LONGITUDE 81° 20'



7 1/2
 TOPO. LOCATION
 50.87
 21.74

~~38 56 50~~
~~81 21 55~~



S 3.75
 W 1.74

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

CERTIFICATE

"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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200
 Signed _____

COMPANY CITIES SERVICE COMPANY
 ADDRESS Box 873 Charleston, W. Va.
WESTVA CO. CORP.
 FARM GLEN W. ROBERTS ETAL (CONSOL.) #1
 MAP _____ ACRES 112 LEASE NO. PR77-1151
 WELL (FARM) NO. 1 SERIAL NO. GW-1785
 ELEVATION (SPIRIT LEVEL) 1105.84' NC
 QUADRANGLE BURNING SPRINGS, SPENCER 15'
 COUNTY WIRT DISTRICT SPRING CREEK
 POINT OF PROVEN ELEVATION USGS BM 1043 - STANDARD DISK -
INTERSECTION WV SEC. RTS. 14/13 AND 26
 FILE NO. _____ DRAWING NO. W-7-77
 DATE AUG. 19, 1977 SCALE 1" = 2000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. WIR-746
 JAN 13 1978
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC
 MAPS. SCALE 1 TO 24,000. LATITUDE AND LONGITUDE LINES
 BEING REPRESENTED BY BORDER LINES AS SHOWN. 47-105
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

6850' Horizontal
 Deep well 1-0



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Quadrangle Burning Springs
Permit No. WIR-746

Rotary X Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ Dry
(Kind)

Company Cities Service Company
Address Box 873, Charleston, WV 25323
Farm Glen W. Roberts Pt. 604.25
Acres 112
Location (waters) Roberts Run
Well No. "A" #1, GW-1785 Elev. 1105.84
District Spring Creek County Wirt
The surface of tract is owned in fee by Westvaco
Corporation, P. O. Box 4216
Address Parkersburg, WV 26105
Mineral rights are owned by Glen W. Roberts
Address Elizabeth, WV 26143
Drilling Commenced 2-18-78
Drilling Completed 3-25-78 (P&A)
Initial open flow 0 cu. ft. 0 bbls.
Final production 0 cu. ft. per day 0 bbls.
Well open 0 hrs. before test 0 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10 3/8" 48#	66'	66'	30 sacks Reg.
9 5/8 36#	2332'	2332'	680 Sx Lit Poz & 100 Sx Reg.
8 5/8			
7	6368'	2443'	105 sx Reg.
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

None

Attach copy of cementing record.

Coal was encountered at none reported Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water 1944, 6894 Feet _____
Producing Sand Newburg Depth 6899-6906

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Kelly Bushing			0	14		
Clay & Shale			14	66		
Shale			66	95		
Red Rock & Shale			95	201		
Sandy Shale			201	1949		
Salt Sand			1949	2134	Salt Water	
Big Lime			2134	2216		
Big Injun			2216	2250		
Shale			2250	5350		
Lime			5350	5725		
Onondaga			5725	5956		
Oriskany			5956	6006		
Dolomite & Shale			6006	6894		6022-6028 Very Slight Show of Gas
Newburg			6894	6906		Salt Water

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

JAN - 6 1978

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE January 5, 1978

Surface Owner Westvaco Corporation

Company Cities Service Company

Address P. O. Box 4216, Parkersburg, WV 26105

Address Box 873, Charleston, WV 25323

Mineral Owner Glen W. Roberts

Farm Glen W. Roberts, et al PT. OF 604.25 Acres 112 ac

Address Elizabeth, WV 26143

Location (waters) Roberts Run

Coal Owner Same

Well No. 1, GW-1785 Elevation 1084.21

Address _____

District Spring Creek County Wirt

Coal Operator Not leased

Quadrangle Burning Spring

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by May 9, 1978

INSPECTOR
TO BE NOTIFIED Paul Goodnight

ADDRESS Smithville, WV 26178

PHONE 477-3660

Robert H. Todd
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated July 15 1975 by Glen W. Roberts, et ux made to Flying Diamond Oil Corp. and recorded on the _____ day of _____ 19 , in Wirt County, Book 144 Page 790
X NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address 5th day Jan. 1978 before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours, Cities Service Company
(Sign Name) Sam J. Matthews
Well Operator Sam J. Matthews
Region Prod. Manager

Address Box 873
of _____ Street
Well Operator Charleston
City or Town
West Virginia 25323
State

W. VA. OIL & GAS CONSERVATION COMMISSION
1613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND
"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."
Signed by Sam J. Matthews

WIR-746 PERMIT NUMBER
47 105

Survey

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME unknown NAME Sam J. Matthews
 ADDRESS _____ ADDRESS Box 873, Charleston, WV 25323
 TELEPHONE _____ TELEPHONE 344-8383
 ESTIMATED DEPTH OF COMPLETED WELL: 6850 ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Newburg
 TYPE OF WELL: OIL _____ GAS COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16" 65#/ft. H-40	60	60	Cement to surface
13 - 10			
8-5/8" 9-5/8" 36#/ft. K-55	2210	2210	Cement to surface
8 - 5/8			
7" 23#/ft. N-80&J-55	6450	6450	Cement bottom 500 feet
5 1/2			
4 1/2" 11.6#/ft. N-80	6850	6850	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 45 FEET SALT WATER 1930 FEET
 APPROXIMATE COAL DEPTHS None
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title