

Frac 1/4/77

- 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

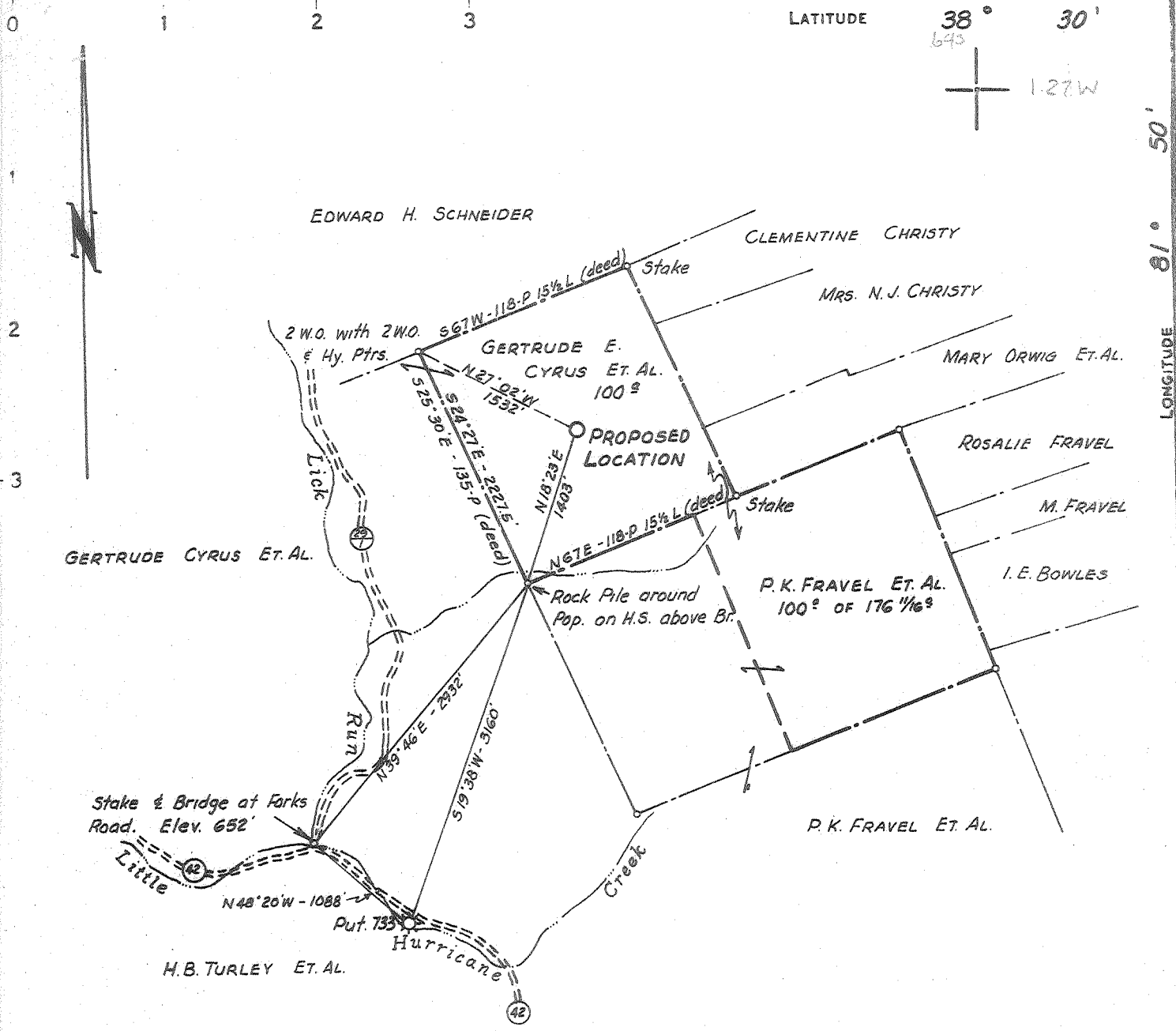
Signed S. J. [Signature] P.P.S. 219

COMPANY DEVONGAS CORP
 ADDRESS P.O. BOX 1433 CHARLESTON, W.VA. 25325
 FARM GERTRUDE E. CYRUS ET AL
 MAP WV-11 ACRES 220 LEASE NO. 2256 & 1863
 WELL (FARM) NO. ONE SERIAL NO. 766
 ELEVATION (SPIRIT LEVEL) 904.9' 115 594
 QUADRANGLE ST. ALBANS NE. NC
 COUNTY PUTNAM DISTRICT SCOTT 4
 POINT OF PROVEN ELEVATION U.S.G.S. Data - Point at forks of road shown above.
 FILE NO. _____ DRAWING NO. _____
 DATE MAY 6, 1968 SCALE 1"=1320'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. PUT-744-FRAC
 + 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. 47-079
 -- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING

-0wwb- 6-0 Scott Depot (212)

Deep Well



CERTIFICATE

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 Minimum degree of accuracy is one part in 200

Signed J.S. Johnson P.P.E. 519

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY	COMMONWEALTH GAS CORP		
ADDRESS	P.O. BOX 1433 CHARLESTON, W.VA. 25325		
FARM	GERTRUDE E. CYRUS ET AL		
MAP	WV-11	ACRES	220
		LEASE NO	2256 & 1863
WELL (FARM) NO.	ONE	SERIAL NO	766
ELEVATION (SPIRIT LEVEL)	904.9'		
QUADRANGLE	ST. ALBANS NE. NC		
COUNTY	PUTNAM	DISTRICT	SCOTT
POINT OF PROVEN ELEVATION	U.S.G.S. Data - Point at forks of road shown above.		
FILE NO		DRAWING NO	
DATE	MAY 6, 1968		SCALE 1"=1320'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. PUT-744

+ 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

Deep Well - (Oriskany)

SEP 16 1968 6-6 Scott-Depot



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle St. Albans N.E.

WELL RECORD

Oil or Gas Well Gas
(KIND)

Permit No. Put. 7111

Company Commonwealth Gas Corporation
Address P. O. Box 1133, Charleston, W. Va. 25325
Farm Gertrude E. Cyrus, et al Acres 200 Unit
Location (waters) Little Hurricane Creek
Well No. 766 Elev. 904.9
District Scott County Putnam
The surface of tract is owned in fee by Gertrude E. Cyrus, et al
625 High Street, St. Albans, W. Va.
Mineral rights are owned by Same
Address Same

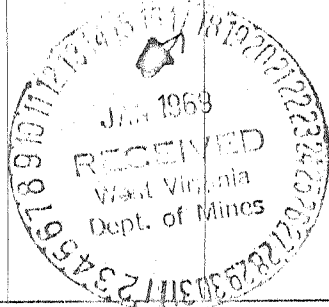
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13"	55'	55'	Size of
9-5/8"	1932'	1932'	Depth set
8 1/4"			Perf. top
6 3/4"			Perf. bottom
xxxxxx 4-1/2"	4744'	4744'	Perf. top
3"			Perf. bottom
2"	4700'	4700'	
Liners Used			

Drilling commenced September 30, 1968
Drilling completed November 13, 1968
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED

CASING CEMENTED SIZE No. Ft. Date
25 bags behind the 13" casing. 100 bags behind
9-5/8" casing. 60 bags behind the 4-1/2" casing.
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL FRACTURED November 2, 1968 with 500 gals. Mud Acid, 8,000# 20/100 Sand and 687 barrels Water.
RESULT AFTER TREATMENT (119,000 cu. ft.) 119 Mcf Oriskany
ROCK PRESSURE AFTER TREATMENT
Fresh Water 100 Feet Salt Water 1540 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface Soil			0	28			
Sand Rock			28	71			
Shale			71	85			
Red Rock			85	94			
Sand & Shale			94	200	Water	100	
Red Rock			200	210			
Sand, Shale, Red Rock			210	445			
Sand & Shale			445	510			
Shale			510	530			
Sandy Shale			530	645			
Shale			645	680			
Sand & Shale			680	1040			
Sand			1040	1065			
Shale			1065	1150			
Sand & Shale			1150	1490			
Sand			1490	1645	Salt Water	1540	
Sand & Lime			1645	2374			
PERVA SAND			2374	2396			
Shale			2396	4606			
CORNIFEROUS LIMESTONE			4606	4693			
ORISKANY SAND			4693	4720			
			TOTAL DEPTH	4720			



Note PI Rpt 12/27/68 classifies this as an outpost 5 but CSD classifies it as a Development well 6

JAN 26 1969



IV-35
(Rev 8-81)

Date January 12, 1987
Operator's
Well No. 766
Farm Gertrude Cyrus
API No. 47 - 079 - 744

RECEIVED
JAN 15 1987

State of West Virginia
Department of Mines
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Iron

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

LOCATION: Elevation: 904.9 Watershed Bluecreek of Little Hurricane Creek
District: Scott County Putnam Quadrangle St. Albans

COMPANY Quinoco Petroleum, Inc.
ADDRESS P. O. Box 1433, Charleston, WV 25325
DESIGNATED AGENT Bill W. Backus
ADDRESS P. O. Box 1433, Charleston, WV 25325
SURFACE OWNER Paul E. Cyrus
ADDRESS 624 High St., St. Albans, WV 25177
MINERAL RIGHTS OWNER Betty Meadows, et al
ADDRESS Rt. 1, Winfield, WV 25213
OIL AND GAS INSPECTOR FOR THIS WORK Martin Nichols
ADDRESS Clendenin, WV
PERMIT ISSUED 1/4/78
~~XXXXXXXXX~~ COMMENCED 1/17/78
~~XXXXXXXXX~~ COMPLETED 1/20/78

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	55	55	
9 5/8	1932	1932	
8 5/8			
7			
5 1/2			
4 1/2	4744	4744	
3			
2	4700	4700	
Liners used			

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

GEOLOGICAL TARGET FORMATION Oriskany Depth 4693 feet
Depth of completed well 4720 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 100 feet; Salt 1540 feet
Coal seam depths: N/A Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 4708 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 8 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 860 psig (surface measurement) after 16 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

JAN 19 1987

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

Duckworth Rig #2. Rigged up Halliburton to frac Oriskany. Formation had 280 PSI before swabbing casing to TD. Loaded casing with 1,000 gal. 15% HCI- and 150 BBL pad with 40 MSCF to nitrogen. Treated with 575 BBL fluid, 115 MCF of nitrogen, 30,000 lbs. of 20/40 sand at an average rate of 17.9 BPM. Treatment started at 3200 PSI and finished at 4000 PSI with average pressure of 3579 PSI. Maximum sand concentration reached 1 3/4 #/gal. Flushed with 100 BBL of fluid. Instant shut-in pressure - 2000 PSI, 15 min. shut-in pressure - 1500 PSI. Opened well after 1 hour and allowed to flow.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
SEE ATTACHED FORM OG-10					

RECEIVED
JAN 15 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

QUINOCO PETROLEUM, INC.
Well Operator
By: Bill W. [Signature]
Date: JANUARY 13, 1987

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."

JAN 19 1987



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JAN - 4 1978

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE January 3, 1978
Company DEVON CORPORATION
Address Box 1433, Charleston, W. Va.
Farm G. E. Cyrus Acres 200
Location (waters) Little Hurricane Creek
Well No. 766 Elevation 905
District Scott County Putnam
Quadrangle St. Albans

Surface Owner Gertrude E. Cyrus
Address 625 High Street, St. Albans, WV
Mineral Owner Same as above
Address _____
Coal Owner _____
Address _____
Coal Operator Not operated
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 fracturing. This permit shall expire if operations have not commenced by 5-4-78.

INSPECTOR TO BE NOTIFIED Martin Nichols
PH: 548-6993 ADDRESS Clendenin, WV

Robert R. [Signature]
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 October 10 19 62 by G. E. Cyrus et al made to Commonwealth Gas Co. and recorded on the 16th day of October 19 62 in Putnam County, Book 50 Page 400

NEW WELL DRILL DEEPER REDRILL XXX 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 _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, DEVON CORPORATION
(Sign Name) A. C. Youse

Well Operator
A. C. Youse, District Geologist
PO Box 1433

Address
of
Well Operator

Street

Charleston
City or Town

West Virginia

State

*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

PUT 744 -FRAC. PERMIT NUMBER
47-079

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

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN XXX FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Steve Duckworth NAME Bill W. Backus
 ADDRESS Sandyville, W. Va. ADDRESS Box 1433, Charleston, W. Va.
 TELEPHONE 273-4441 TELEPHONE 342-3171
 ESTIMATED DEPTH OF COMPLETED WELL: 4720' ROTARY _____ CABLE TOOLS Completion
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS XXX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM: Casing presently in hole.

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - XX		55'	
9 - 5/8		1932'	
8 - 5/8			
7			
5 1/2			
4 1/2		4744'	Perforations:
3			Perf. Top 4708)
2			Perf. Bottom 4710) 16 Shots
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____
 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: Propose to reperforate, frac & test Oriskany Sand

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