

10,100

P.P. = 5/21/74 CEN
 Frac = 5/29/74 "

LATITUDE 38° 20'
 38° 17' 30"

MAGNETIC NORTH 1966

LONGITUDE 81° 40'

004'31"

THE COURTLAND CO. ET AL
 1156 AC.
 (R.H. ADKINS LEASE)

THE COURTLAND CO. ET AL
 3064 AC.
 (Abandoned Steel & Concrete Monument)

AULT MFG. CO.

EMMONS

- Fracture
- Partial Plug
- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- 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 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 2000

Signed *R. P. E. No. 2024*

(N.B. No. 95 Pg. 48)

CERTIFICATE

COMPANY	Quinoco Petroleum INC.		
ADDRESS	P.O. Box 1433 CHARLESTON, W.VA. 25025		
FARM	THE COURTLAND COMPANY ET AL		
MAP	WV 12	ACRES 3064	LEASE NO. 2341
WELL (FARM) NO.	3	SERIAL NO.	747
ELEVATION (SPIRIT LEVEL)	951.2'		
QUADRANGLE	CHARLESTON 15' / Charleston West 7.5'		
COUNTY	KANAWHA	DISTRICT	WASHINGTON
POINT OF PROVEN ELEVATION	GROUND AT WELL No. 721 - U.S.G.S. DATUM		
FILE NO.	DRAWING NO.		
DATE	MAY 20, 1966		
	SCALE 1" = 1000'		

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION 039-2073-P
 CHARLESTON
 WELL LOCATION MAP

FILE NO. KAN-2073-P.P.-2nd
 FRAC. CANCELLED

+ 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.

KAN 2073 PP Frac Can

47 039-2073-P

10,100'

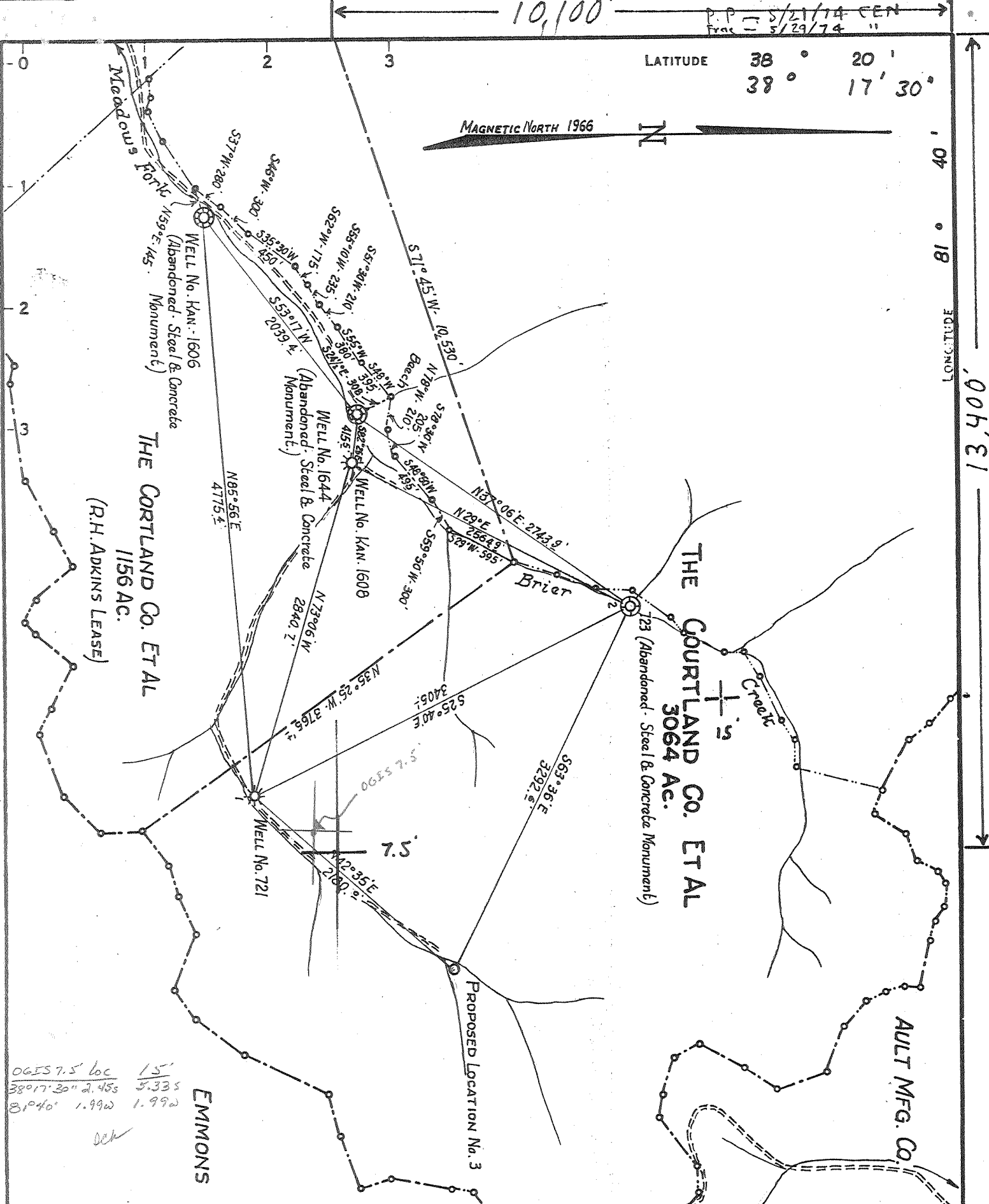
P.P. = 5/21/74 CEN
FRAC = 5/29/74 "

LATITUDE 38° 20'
39° 17' 30"

MAGNETIC NORTH 1966

LONGITUDE 81° 40'

13,400'



OGES 7.5 loc 15
 38°17'30" 2.48s 5.33s
 89°40' 1.99w 1.99w

ock

- Fracture
- Partial Plug
- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

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 Minimum degree of accuracy is one part in 2000

Signed *W. B. Barney* R.P.E. No. 2024

Devon (N.B. No. 95 Pg. 48)

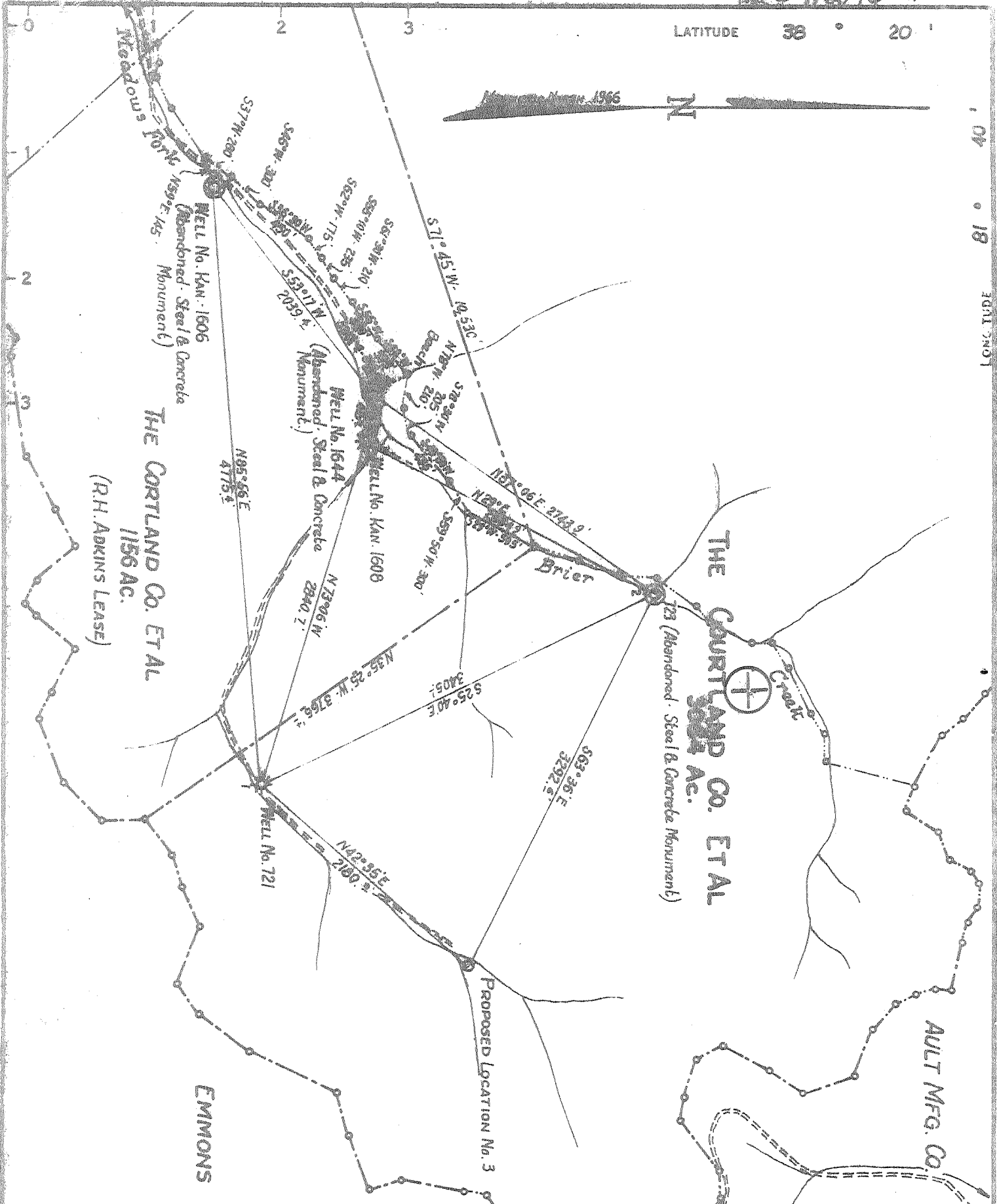
COMPANY	COMMONWEALTH GAS CORPORATION		
ADDRESS	P.O. BOX 1433 CHARLESTON, W.VA. 25325		
FARM	THE COURTLAND COMPANY ET AL		
MAP	WV 12	ACRES	3064
		LEASE NO.	2341
WELL (FARM) NO.	3	SERIAL NO.	747
ELEVATION (SPIRIT LEVEL)	951.2'		
QUADRANGLE	CHARLESTON 15' / Charleston West T.5		
COUNTY	KANAWHA	DISTRICT	WASHINGTON
POINT OF PROVEN ELEVATION	GROUND AT WELL No. 721 - U.S.G.S. DATUM		
FILE NO.		DRAWING NO.	
DATE	MAY 20, 1966	SCALE	1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP

FILE NO. *KAN-2073-P.P.-2nd*
 FRAC. CANCELLED

+ 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

47 039



- Fracture
- Partial Plug
- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- 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 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 2000

Signed *[Signature]* R.P.E. No. 2024

DEVON (N.B. No. 96, Pg. 48)

COMPANY DEVON OIL & GAS CORPORATION
 ADDRESS 1100 MAIN STREET, CHARLESTON, W.VA. 25320
 FARM THE COURTLAND COMPANY ETAL
 MAP 14412 ACRES 2000 LEASE NO. 2741
 WELL (FARM) NO. 3 SERIAL NO. 747
 ELEVATION (SPIRIT LEVEL) 961.1
 QUADRANGLE CHARLESTON (S.W.)
 COUNTY KANAWHA DISTRICT WASHINGTON
 POINT OF PROVEN ELEVATION GROUND AT WELL No. 721 - U.S.G.S. DATUM

FILE NO. MAY 20, 1966 DRAWING NO. 1" = 1000'

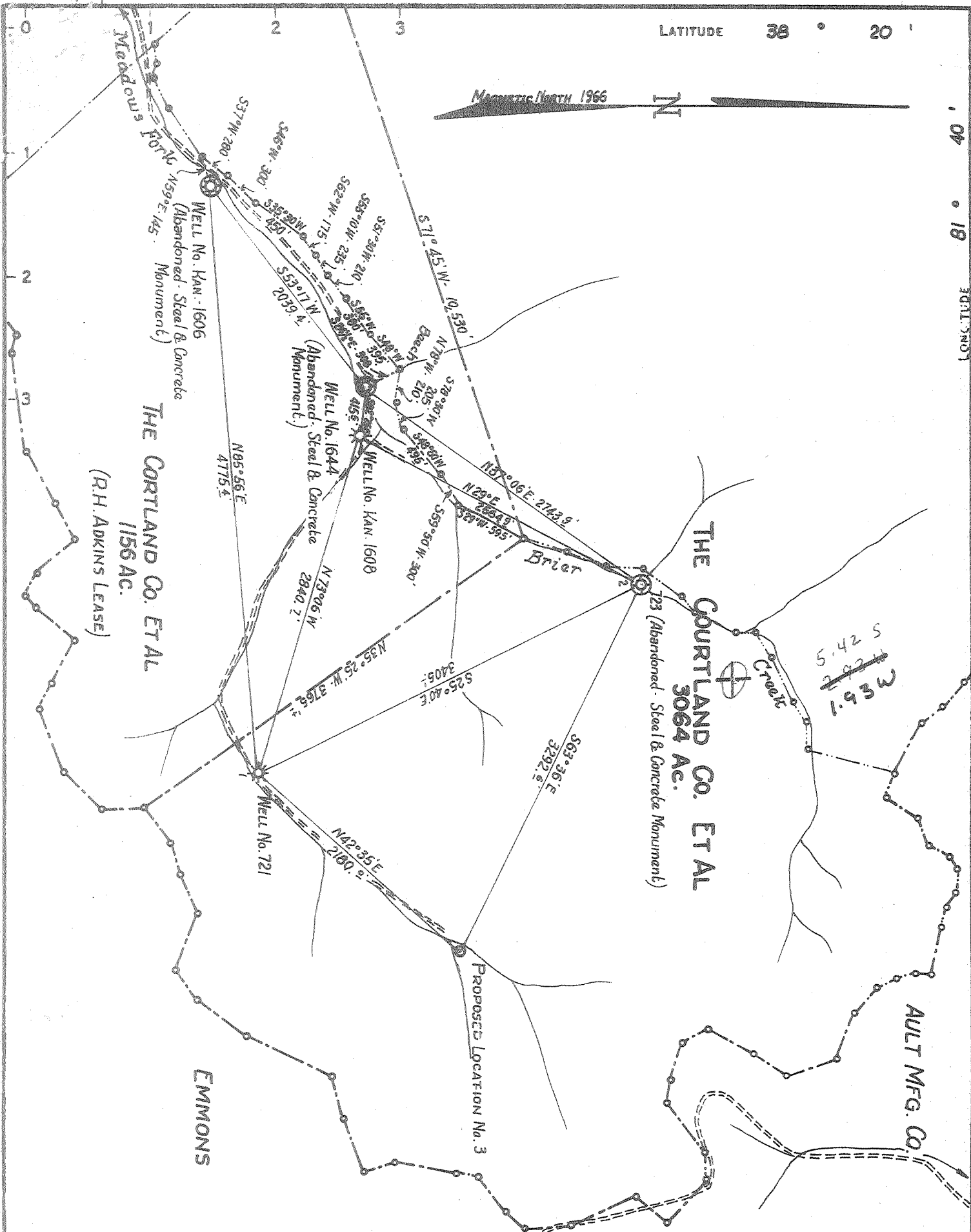
CERTIFICATE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP

FILE NO. Kan-2073-P.P.-2000

+ 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 47 039 JUN 21 1974



LATITUDE 38 ° 20 '

LONGITUDE 81 ° 40 '

Magnetic North 1966

THE COURTLAND CO. ET AL
3064 AC.
(Abandoned - Steel & Concrete Monument)

THE COURTLAND CO. ET AL
1156 AC.
(R.H. ADKINS LEASE)

5.42 S
2.92 W
1.93 W

CERTIFICATE

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Minimum degree of accuracy is one part in 2000

Signed *[Signature]* R.P.E. No. 2024

(N.B. No. 95 Pa. 48)

COMPANY	COMMONWEALTH GAS CORPORATION		
ADDRESS	P.O. BOX 1433 CHARLESTON, W.VA. 25325		
FARM	THE COURTLAND COMPANY ET AL		
MAP	WV 12	ACRES	3064
		LEASE NO.	2341
WELL (FARM) NO.	3	SERIAL NO.	747
ELEVATION (SPIRIT LEVEL)	951.3'		
QUADRANGLE	CHARLESTON S.W.		
COUNTY	KANAWHA	DISTRICT	WASHINGTON
POINT OF PROVEN ELEVATION	GROUND AT WELL No. 721 - U.S.G.S. DATUM		
FILE NO.	DRAWING NO.		
DATE	MAY 20, 1966		
	SCALE 1" = 1000'		

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP

FILE NO. *Kan-2073*

+ 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 (Newburg)

21,000



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Charleston S. W.

Permit No. Kan. 2073

WELL RECORD

Oil or Gas Well Gas

Company Commonwealth Gas Corporation
Address P.O. Box 1433, Charleston, W. Va. 25325
Farm The Courtland Co. & Broun Heirs acres 3064
Location (waters) Meadow Fork of Brier Creek
Well No. 3 (Serial 747) Elev. 951.2
District Washington County Kanawha
The surface of tract is owned in fee by The Courtland Co.
Odd Fellows Bldg., Chas. Address Broun Heirs, Kan.
W. Va. Valley Bank
Mineral rights are owned by Same
Address _____

Drilling commenced June 3, 1966
Drilling completed July 11, 1966
Date Shot _____ From _____ To _____
With _____

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 3,400,000 (Natural) Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18	<u>64</u>	<u>64</u>	
10-9-5/8"	<u>1752</u>	<u>1752</u>	Size of
8 3/4"			
6 3/4"			Depth set
5 1/2" 4 1/2"	<u>5474</u>	<u>5474</u>	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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

WELL FRACTURED 7-11-66 - 500 gallons Mud Acid 24,000# 20/40 Sand 689 Bbls. water
4 1/2" Casing perforated from 5400 to 5413 with 10 holes

RESULT AFTER TREATMENT 20,135,000 Cu. feet
ROCK PRESSURE AFTER TREATMENT 1950# - 14 Hours
Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	15			
Shale			15	97			
Sand & Shale			97	133			
<u>COAL</u>			133	136			
Sand & Shale			136	270			
Shale			270	312			
Sand & Shale			312	381			
Shale			381	960			
Sand - <u>Sand</u>			960	1378			
Lime & Sand			1378	1552			
Lime - <u>Big Lime</u>			1552	1712			
Shale			1712	4626			
<u>CORNIFEROUS LIME</u> ONONDAGA			4626	4727			
<u>ORISKANY SAND</u>			4727	4740			
Lime - <u>Halderberg & Cayuga</u>			4740	5400			
<u>NEWBURG</u>			5400	5413			
Lime - <u>Mackinac</u>			5413	5457			
			TOTAL DEPTH	5457			



FINAL GAUGE

20,135,000 Cu. Ft.

Deep Well
(Newburg)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAY 29 1974

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 May 28, 1974
Company DEVON CORPORATION
Address P.O. Box 1433, Charleston, W. Va.
Farm Courtland Co. Acres 3,064
Location (waters) Meadows Fork, Brier Creek
Well No. 747 Elevation 951.2
District Washington County Kanawha
Quadrangle Charleston S.W. 7 1/2'

Surface Owner _____
Address _____
Mineral Owner The Courtland Company
Address Odd Fellows Bldg., Charleston, WV
Coal Owner _____
Address _____
Coal Operator _____
Address _____

THIS PERMIT MUST BE POSTED AT THE

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 9-29-74.

Robert A. Miller

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Martin Nichols
P. O. Box 554 PH: 548-4961
Clendenin, WV.

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 April 1, 1963 by The Courtland Company made to Commonwealth Gas Corporation and recorded on the 23rd day of July 1963 in Kanawha County, Book 154 Page 689

NEW WELL DRILL DEEPER REDRILL XXXXX FRACTURE OR STIMULATE
XXX 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, Arthur C. Youse
(Sign Name) Arthur C. Youse
District Geologist, Devon Corp.
P. O. Box 1433
Street
Charleston, W. Va. 25325
City or Town
State

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 979
Morgantown, W. Va. 26505
AC 304-236-4451

Address
of
Well Operator

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

KAN 2073 -FRAC. PERMIT NUMBER

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 Company Tools NAME Robert L. Collins
 ADDRESS Box 1433, Charleston, W. Va. ADDRESS Milton, West Virginia
 TELEPHONE 342-3171 TELEPHONE 743-9478
 ESTIMATED DEPTH OF COMPLETED WELL: 1,725 ROTARY _____ CABLE TOOLS XXXX
 PROPOSED GEOLOGICAL FORMATION: Injun
 TYPE OF WELL: OIL _____ GAS XXX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM: Plug Back to 1,725' in 9 5/8" Casing

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - XXX	64	64	60 Sacks
9 - 5/8	1758	1758	100 Sacks
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? _____ 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

RECEIVED
SEP 08 1987

AFFIDAVIT OF PLUGGING AND FILLING WELL

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

N/A
Coal Operator or Owner

N/A
Address

N/A
Coal Operator or Owner

N/A
Address

The Courtland Company
Lease or Property Owner

205 Odd Fellow Building, Charleston, WV 25301
Address

Quinoco Petroleum, Inc.
Name of Well Operator

P.O. Box 1433, 1207 Quarrier St., East
Charleston, WV 25325
Complete Address

August 3, 19 87

Washington District

Kanawha County

WELL AND LOCATION

WELL NO. 747

The Courtland Company #3 Farm

STATE INSPECTOR SUPERVISING PLUGGING

Carlos Hively
223 Pinch Ridge Road
Elkview, WV 25071

STATE OF WEST VIRGINIA,

County of Lincoln

SS:

Paul Byrd and Calvin Adkins

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Jackson Development Co., Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 15th day of July, 19 87, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material Total Depth	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
	5457'			
	Gel Hole 5457' - Surface			
	Cement 5457' - 5357'			
	Cut & Pull 4 1/2"	4 1/2"	3112	2362
	Cement 2620' - 2520'			
	Cut & Pull 9-5/8"	9-5/8"	1180	572
	Cement 1267' - 1167'			
	Cement 600' - 500'			
	Cement 182' - 100'			
	Cement 50' - Surface			
	Erect monument as prescribed by law.			
Coal Seams		Description of Monument		
(Name)		30" above surface with		
(Name)		inscription API 47-039-2073-P		
(Name)				
(Name)				

and that the work of plugging and filling said well was completed on the 31st day of July, 19 87.

And further deponents saith not.

Paul Byrd
Calvin Adkins

Notary Public SEP 14 1987

Sworn to and subscribed before me this 3rd day of August, 19 87.

My commission expires:

March 1, 1987

Permit No. 47-039-2073-P