

*Brown shale
4142'*

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 300

Signed

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY Gilbert Imported Hardwoods, Inc.
 ADDRESS P.O. Drawer D Gilbert, WV 25621
 FARM Cotiga
 MAP _____ ACRES 2,500 LEASE NO. _____
 WELL (FARM) NO. 5 SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 1447
 QUADRANGLE Naugatuck, WV, KY. #13 SE
 COUNTY Mingo DISTRICT Hardee
 POINT OF PROVEN ELEVATION Elev of GW #9087
 FILE NO. _____ DRAWING NO. _____
 DATE October 30, 1980 SCALE 1" = 1320'

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

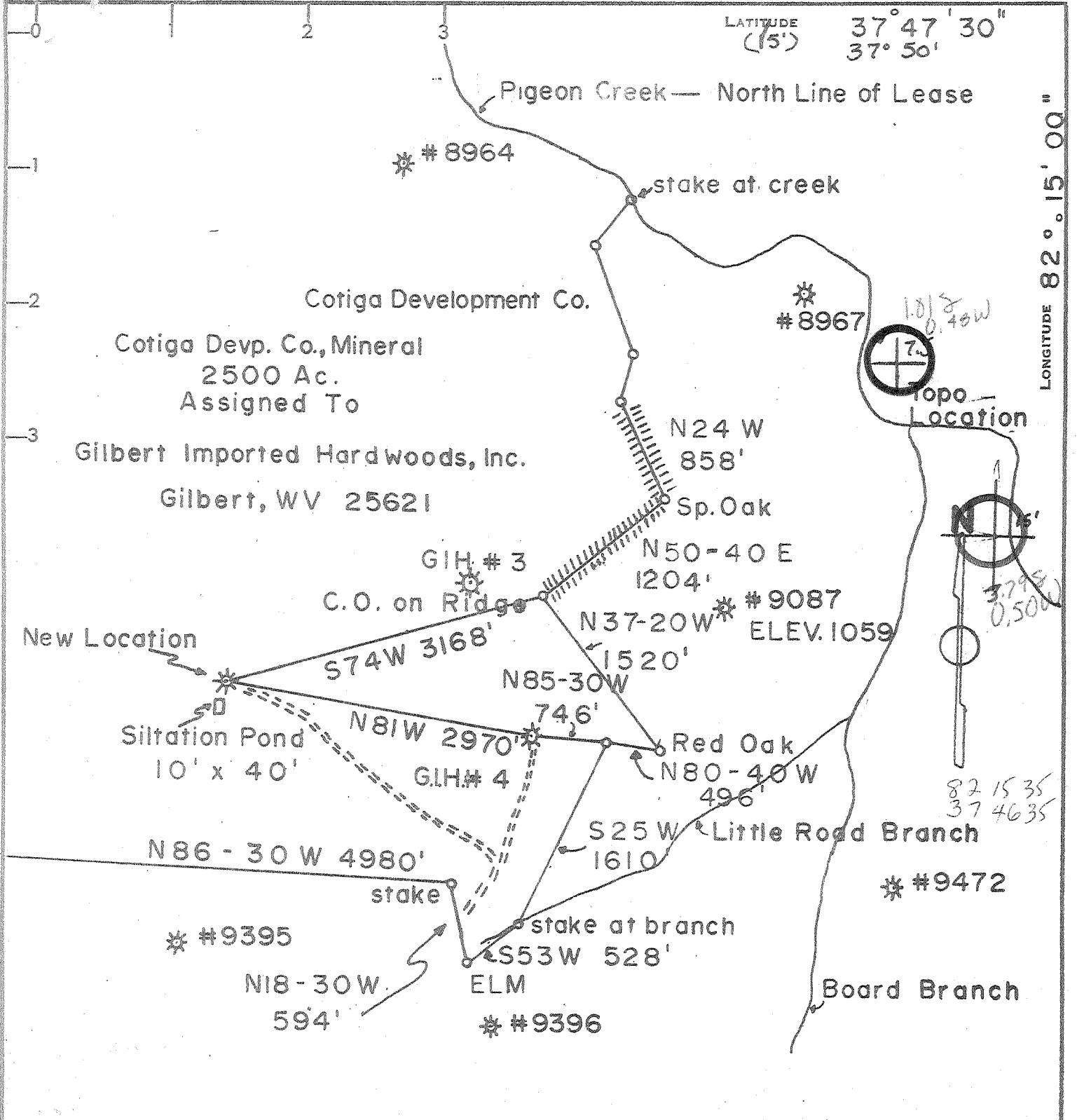
FILE NO. 059-950 - Rev.

+ 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

MAY 21 1981



CERTIFICATE

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Minimum degree of accuracy is one part in 300

Signed [Signature]

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY Gilbert Imported Hardwoods, Inc.
 ADDRESS P.O. Drawer D Gilbert, WV 25621
 FARM Cotiga
 MAP _____ ACRES 2500 LEASE NO. _____
 WELL (FARM) NO. 5 SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 1364.0
 QUADRANGLE Naugatuck, W.V., Ky. 7.5 & 15' SE
 COUNTY Mingo DISTRICT Hardee
 POINT OF PROVEN ELEVATION Elev. of G.W. #9087
 FILE NO. _____ DRAWING NO. _____
 DATE April 18, 1980 SCALE 1" = 1320'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. 059-0950

+ 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.

Breeden Creek (244) (243)

JUN 17 1980



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle NAIGATHICK

Permit No. 47-059-0950

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

Company GILBERT DRILLING COMPANY
Address DRAPER D: GILBERT, WV 25621
Farm COTIGA DEVELOPMENT CO. Acres 2500
Location (waters) PIGEON
Well No. G.J.H. #5 Elev. 1505
District HARDEE County MTNCO
The surface of tract is owned in fee by _____
COTIGA DEVELOPMENT CO.
Address 22 DAFBY RD., PAOLI, PA.
Mineral rights are owned by SAME
Address _____
Drilling Commenced JANUARY 1, 1981
Drilling Completed JANUARY 8, 1981
Initial open flow -0- cu. ft. _____ bbls.
Final production 90 cu. ft. per day _____ bbls.
Well open 48 hrs. before test 295 RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	20'	30'	10 Sks.
9 5/8			
8 5/8	2281.92	2281.92	To Surface
7			
5 1/2			
4 1/2			
3			
2		4529.5'	
Liners Used			

Attach copy of cementing record.

SHOT WITH 8000# JUDYMIT

Coal was encountered at 233 Feet 10 Inches
Fresh water 171 Feet SHOW Salt Water 2115 Feet 1/2" STRIP
Producing Sand DEVONIAN SHALE Depth 3270' - 4619'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
CLAY	BROWN	SOFT	0	20		
SND & SHLE	GREY	MED.	20	77		
SAND	BROWN	HARD	77	233		
COAL	BLACK	SOFT	233	234		
SAND	BROWN	HARD	234	295		
SND & SHALE	GREY	MED.	295	1485		
SAND	WHITE	HARD	1485	1680		
SHALE	BLACK	SOFT	1680	1730		
SND & SHLE	BROWN	HARD	1730	2010		
SALT SND	WHITE	HARD	2010	2150		
SHALE	BLUE	SOFT	2150	2175		
MAXTON SND	WHITE	HARD	2175	2230		
SANDY SHLE	BLUE	MED.	2230	3180		
COFFEE SHLE	BROWN	SOFT	3180	3205		
BEREA	BROWN	HARD	3205	3270		
SHALE	WHITE	SOFT	3270	4000		
SHALE	BROWN	SOFT	4000	4220		
SHALE	WHITE	SOFT	4220	4490		
SHALE	BROWN	SOFT	4490	4619		

RECEIVED

MAR 28 1981

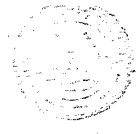
OIL & GAS DIVISION
DEPT. OF MINES

T.D.

Onondaga at 4606
(using 1815'
elev. K.B.)

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE APRIL 28, 1980

Surface Owner Cotiga Dev. Co.

Company Gilbert Imported Hardwoods

Address 25 Darby Rd. Paoli; Pa. 19301

Address Drawer D, Gilbert, W.Va. 25621

Mineral Owner Same

Farm Cotiga Dev. Co. Acres 2500

Address _____

Location (waters) Pigeon Creek

Coal Owner Same

Well No. 5 Elevation 1364.0'

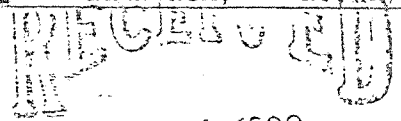
Address _____

District Hardee County Mingo

Coal Operator None

Quadrangle Naugatuck, W. Va., Ky.

~~THIS PERMIT MUST BE POSTED AT THE WELL SITE~~



APR 30 1980

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 1-12-81.

INSPECTOR TO BE NOTIFIED Arthur St. Clair

ADDRESS DEPT. OF MINES P.O. Box 157, Brenton, W.V. 24818

PHONE _____

Robert L. ...
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 Sept. 25 1973 by Columbia Gas Trans. Co. made to C. F. Shewey and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____

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 _____ day _____ 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:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours,
(Sign Name) *Arthur St. Clair*
Well Operator

Address of Well Operator
Drawer D Street
Gilbert City or Town
W. Va. 25621 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 modifying 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

059
MIN-950 PERMIT NUMBER

"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 _____

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

PROPOSED WORK ORDER TO XXX DRILL DEEPEN FRACTURE STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Lloyd Jackson NAME C. E. Richner
 ADDRESS Hamlin, W.Va. ADDRESS P.O. Box 310, Pineville, W.Va. 24874
 TELEPHONE _____ TELEPHONE 732-6341
 ESTIMATED DEPTH OF COMPLETED WELL: 4142' ROTARY _____ CABLE TOOLS XXX
 PROPOSED GEOLOGICAL FORMATION: Br. Shale
 TYPE OF WELL: OIL _____ GAS XXX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT.
20 - 1 1/2			
13 - 10	20'	20'	
9 - 5/8			
8 - 5/8	680'	680'	Cement to Surface
7	2350'	2350'	
5 1/2			
4 1/2			
3			Perf. Top
2	4142'		Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 350' FEET SALT WATER 1350' FEET
 APPROXIMATE COAL DEPTHS 400'
 IS COAL BEING MINED IN THE AREA? None 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