

Brown Shell 3970'

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. 6 SERIAL NO. _____
 ELEVATION (SPIRIT LEVEL) 1491
 QUADRANGLE Naugatuck, WV, KY. 15 SE
 COUNTY Mingo DISTRICT Hardee
 POINT OF PROVEN ELEVATION Elev of GW #9087

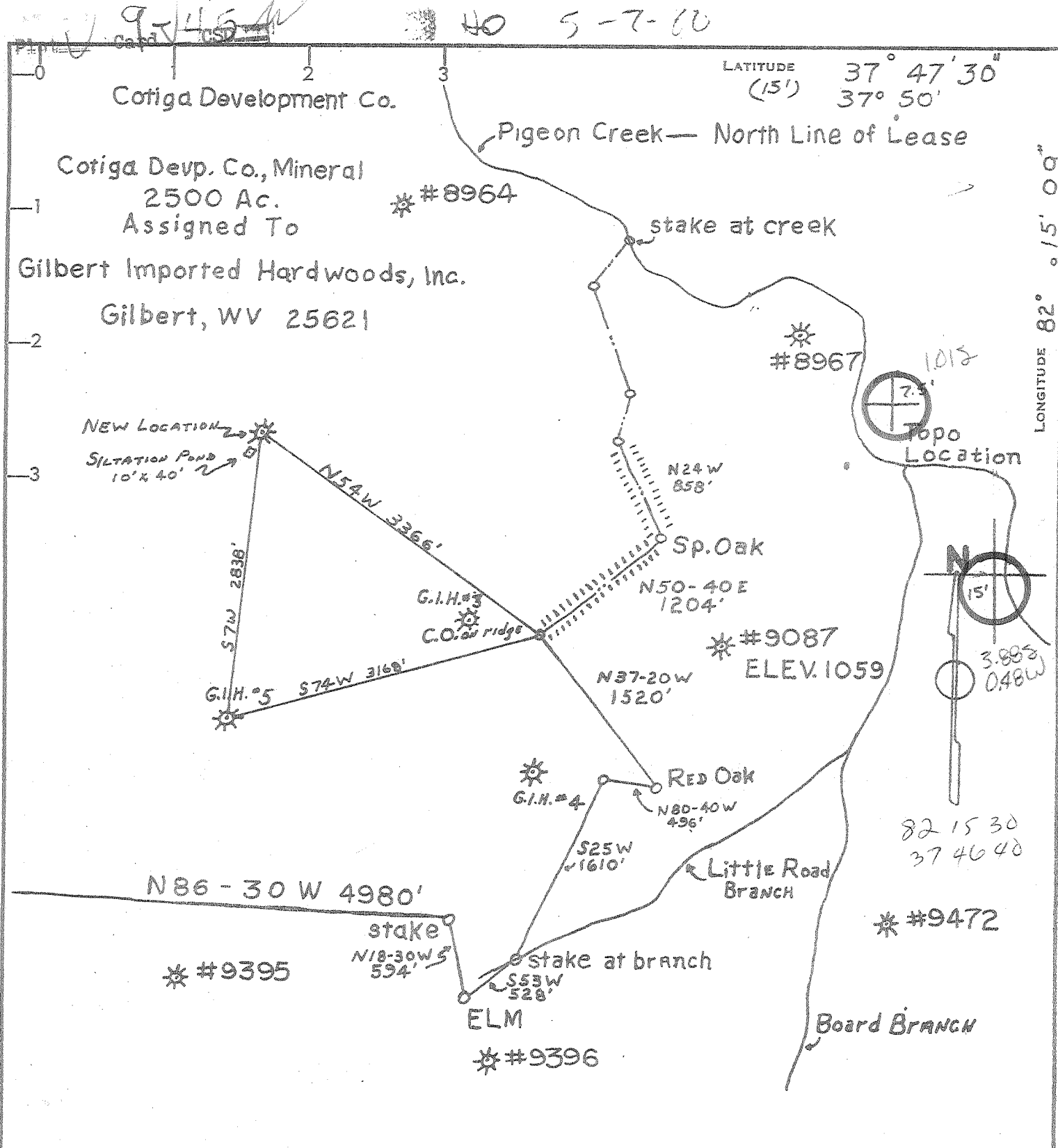
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. 059-951-Rev.

+ 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.

FILE NO. _____ DRAWING NO. _____
 DATE October 30, 1980 SCALE 1" = 1320'

DEEP WELL

MAY 21 1981



Cotiga Development Co.

- 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 300

Signed _____

COMPANY GILBERT IMPORTED HARDWOODS, Inc.

ADDRESS P.O. DRAWER D GILBERT, WV 25621

FARM COTIGA

MAP _____ ACRES 2500 LEASE NO. _____

WELL (FARM) NO. 6 SERIAL NO. _____

ELEVATION (SPIRIT LEVEL) 1193.0

QUADRANGLE NAUBATUCK, W.V., KY. 7.5 & 15' SE

COUNTY MINCO DISTRICT HARDEE

POINT OF PROVEN ELEVATION ELEV. OF G.W. # 9087

FILE NO. _____ DRAWING NO. _____

DATE APRIL 23, 1980 SCALE 1" = 1320'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

FILE NO. 059-0951

6-6 Greener Creek (244) (243)

+ 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.

3970' BROWN SHALE

- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle NAUGATUCK
Permit No. 047-059-0951

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

Company GILBERT DRILLING COMPANY
Address DRAWER D: GILBERT WV, 25621
Farm CONTIGA DEVELOPMENT CO. Acres 2500
Location (waters) PIGEON CREEK
Well No. G.T.H. #6 Elev. 1565
District HARDEE County MINGO
The surface of tract is owned in fee by _____
CONTIGA DEVELOPMENT CO.
Address 22 DARBY RD., PAOLI, PA.
Mineral rights are owned by SAME
Address _____
Drilling Commenced DECEMBER 12, 1980
Drilling Completed DECEMBER 20, 1980
Initial open flow -0- cu. ft. _____ bbls.
Final production 100M cu. ft. per day _____ bbls.
Well open 2 hrs. before test 290 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"	52'	52'	10 Sks
9 5/8			
8 5/8	2340'	2340'	Cement fill up
7			
5 1/2			
4 1/2			
3			
2	4500'	4500'	
Liners Used			

Attach copy of cementing record.

100 MCF

SHOT WITH 8000# gel

Coal was encountered at 18 Feet 36 Inches
Fresh water 630 Feet Salt Water 1641 Feet
Producing Sand DEVONIAN SHALE Depth 4670

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
SURFACE	BROWN	SOFT	0	20		
LIME	GREY	SOFT	20	52		
SND & SHLE	GREY	HARD	52	506		
SHALE	BLUE	MED.	506	637		Fresh water @ 630 (show)
SND & SHLE	GREY	MED.	637	1601		
SALT SAND	WHITE	HARD	1601	1650		Salt Water @ 1641 (1/2" stream)
BROKEN SND	GREY	HARD	1650	1705		
SAND	GREY	HARD	1705	1890		
MAXON SND	WHITE	HARD	1890	2035		
BROKEN SND	GREY	MED.	2035	2195		
SHLE & LIME	BLUE	MED.	2195	2435		
BIG LIME	WHITE	HARD	2435	2585		
SND & SHLE	GREY	MED.	2585	3268		
SND BERA	BROWN	HARD	3268	3330		
SHALE	WHITE	SOFT	3330	4050		
SHALE	BROWN	SOFT	4050	4280		
SHALE	WHITE	SOFT	4280	4550		
SHALE	BROWN	SOFT	4550	4678		

RECEIVED

MAR 23 1981

OIL & GAS DIVISION
DEPT. OF MINES

T.D.

*Onondaga at 4666(?)
(dev. is at 1595 E.B.)*

(over)

APR 07 1981

* Indicates Electric Log tops in the remarks section.

5 - 7 - 70



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
APR 30 1980
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 APRIL 28, 1980

Surface Owner: Cotiga Dev. Co.
Address 25 Darby Rd. Paoli, Pa. 19301
Mineral Owner Same
Address _____
Coal Owner Same
Address _____
Coal Operator None
Address _____

Company Gilbert Imported Hardwoods
Address Drawer D, Gilbert, W.Va. 25621
Farm Cotiga Dev. Co. Acres 2500
Location (waters) Pigeon Creek
Well No. 6 Elevation 1193.0'
District HARDEE County Mingo
Quadrangle Nantux W. Va. KY

RECEIVED
APR 30 1980

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 1-12-81.

INSPECTOR
TO BE NOTIFIED OIL & GAS DIVISION
Arthur St. Clair
DEPT. OF MINES
ADDRESS P.O. BOX 157, Brenton, W.Va. 24818
PHONE _____

Robert S. [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 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.

Very truly yours,
(Sign Name) [Signature]
Well Operator

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

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 authorizing 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-951

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: 3970' 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	BIT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 14			
13 - 10	20'	20'	
9 - 5 8			
8 - 5 8	550'	550'	Cement to Surface
7	2170'	2170'	
5 1/2			
4 1/2			
3			Perf. Top
2	3970'		Perf. Bottom
1 1/2			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 245 FEET SALT WATER 1150' FEET
 APPROXIMATE COAL DEPTHS 235
 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