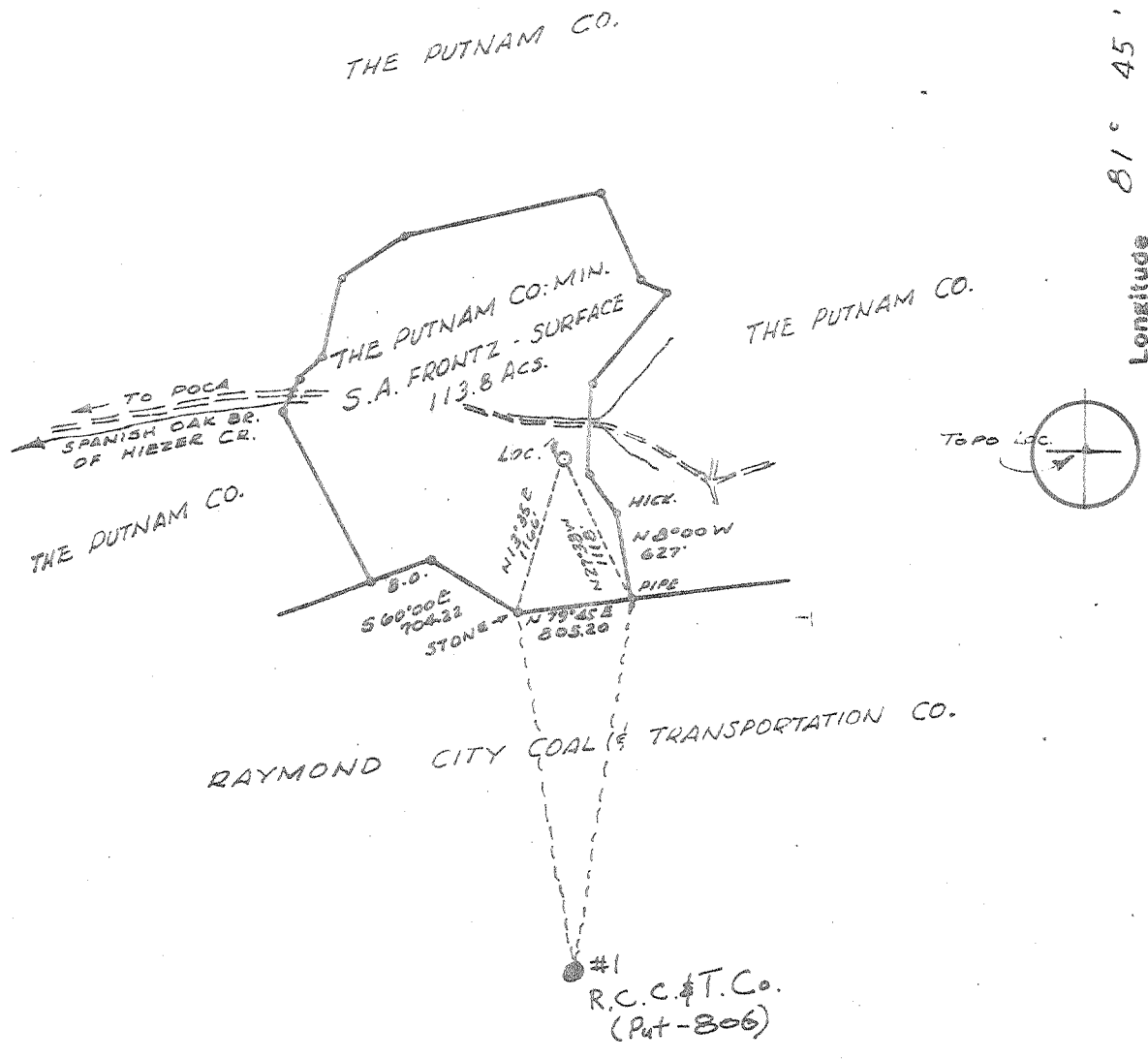


Plot Log Card CSD Mflm

Latitude 38° 30' 35"

Longitude 81° 45'



New Location
 Drill Deeper
 Abandonment
 7127126

Minimum Error of Closure 1 in 200
 Source of Elevation USGS. ELEV. 1034' ROAD INTERSECTION S.E. OF LOC.

"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."

Company D&L EQUIP INC.
 Address 507 LAWTON RD. MARIETTA OHIO 4750
 Farm THE PUTNAM CO
 Tract _____ Acres 113.8 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 924.0
 Quadrangle WINFIELD SE
 County PUTNAM District POCA
 Engineer N. J. POCATALICO
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 5-24-75 Scale 1" = 1320'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. PUT-805-P

+ 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.

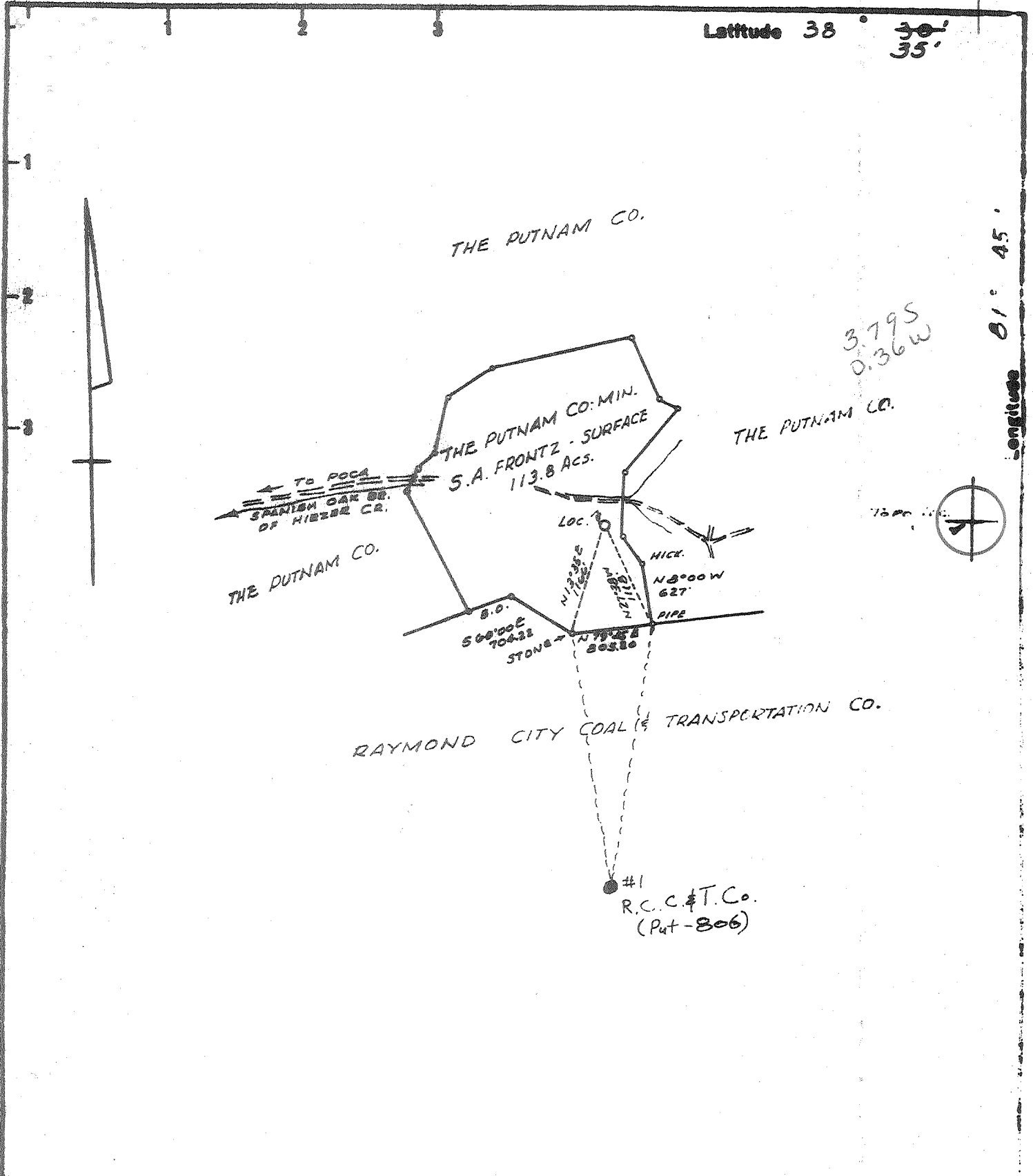
-- Denotes one inch spaces on border line of original tracing.

47-079

Deep well

AUG 3 1975

Latitude 38° 30' 35"



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure LIN. 200'
 Source of Elevation USGS. ELEV. 1034' ROAD INTERSECTION S.E. OF Loc.

"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."

Company D. C. MALCOLM INC.
 Address 1006 COMMERCE SQ., CHARLESTON, W.VA.
 Farm THE PUTNAM CO
 Tract _____ Acres 113.8 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 924.0
 Quadrangle WINFIELD SE
 County PUTNAM District POCA
 Engineer N. L. DEPTON
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 5-24-75 Scale 1" = 1320'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. PUT-805

+ 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 47-079 (Oriskany)

Rocky Fork (312) JUL 21 1975



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED

FEB 27 1976

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Quadrangle Winfield

Permit No. Put 805

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

Company D. C. Malcolm, Inc.
Address 1006 Commerce Sq., Charleston, W. Va.
Farm Putnam Company Acres 113
Location (waters) Heizer Creek
Well No. 1 Elev. 924 Gr
District Poca County Putnam
The surface of tract is owned in fee by S.A. Frantz

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			To surface
Cond. 13-10"	397	397	
9 5/8			290 Sx
8 5/8	2180	2180	
7			75 Sx
5 1/2			
4 1/2	5099	5099	
3			
2 3/8	5000	5000	
Liners Used			

Address _____
Mineral rights are owned by Putnam Company
Address _____
Drilling Commenced 8-1-75
Drilling Completed 8-13-75
Initial open flow 207,000 M cu. ft. --- bbls.
Final production _____ cu. ft. per day --- bbls.
Well open _____ hrs. before test _____ RP.

Attach copy of cementing record.

Frac Oriskany 5002 - 5021

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	790		
Sand			790	826		
Sand & Shale			826	1540		
Sand			1540	1836		
Lime			1836	2094		
Sand (Injun)			2094	2142		
Shale			2142	2510		
Sand (Berea)			2510	2522		
Shale			2522	4910		
Lime (Onondaga)			4910	4997		
Sand (Oriskany)			4997	5027		
Lime			5027	5108		
					Total Depth	
Well presently shut in.						

* Indicates Electric Log tops in the remarks section. (over)

MAR 15 1976

Oil and Gas Division

RECEIVED

JUN 30 1975

OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE June 10, 1975

Surface Owner S. A. Frantz

Company D. C. Malcolm, Inc.

Address _____

Address 1006 Commerce Sq., Charleston, W. Va.

Mineral Owner Putnam Company

Farm Putnam Company Acres 113

Address _____

Location (waters) Heizer Creek

Coal Owner _____

Well No. 1 Elevation 924

Address _____

District Poca County Putnam

Coal Operator Not Operated

Quadrangle Winfield

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

If 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 11-3-75

Robert T. Bell

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Martin Nichols

PH: 548-6993 ADDRESS Clendenen, W. Va.

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 _____ 19____ by The Putnam Company made to Godfrey L. Cabot, Inc. and recorded on the _____ day of _____ 19____, in Putnam County, Book 31 Page 517

_____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 GEOLOGICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 619
Morgantown, W. Va. 26505
AC 304-296-4461

Very truly yours,

(Sign Name)

D. C. Malcolm

Well Operator

Address of Well Operator

1006 Commerce Square
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-805
47-079

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME D. C. Malcolm
 ADDRESS _____ ADDRESS 1006 Commerce Sq., Charleston, W. V.
 TELEPHONE _____ TELEPHONE 343-9593
 ESTIMATED DEPTH OF COMPLETED WELL: 5200 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS X 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			
13 - 10	40'	40'	Surface
9 - 5/8			
8 - 5/8	2000'	2000'	Surface
7			
5 1/2			
4 1/2	5200	5200	100SX
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 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:

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