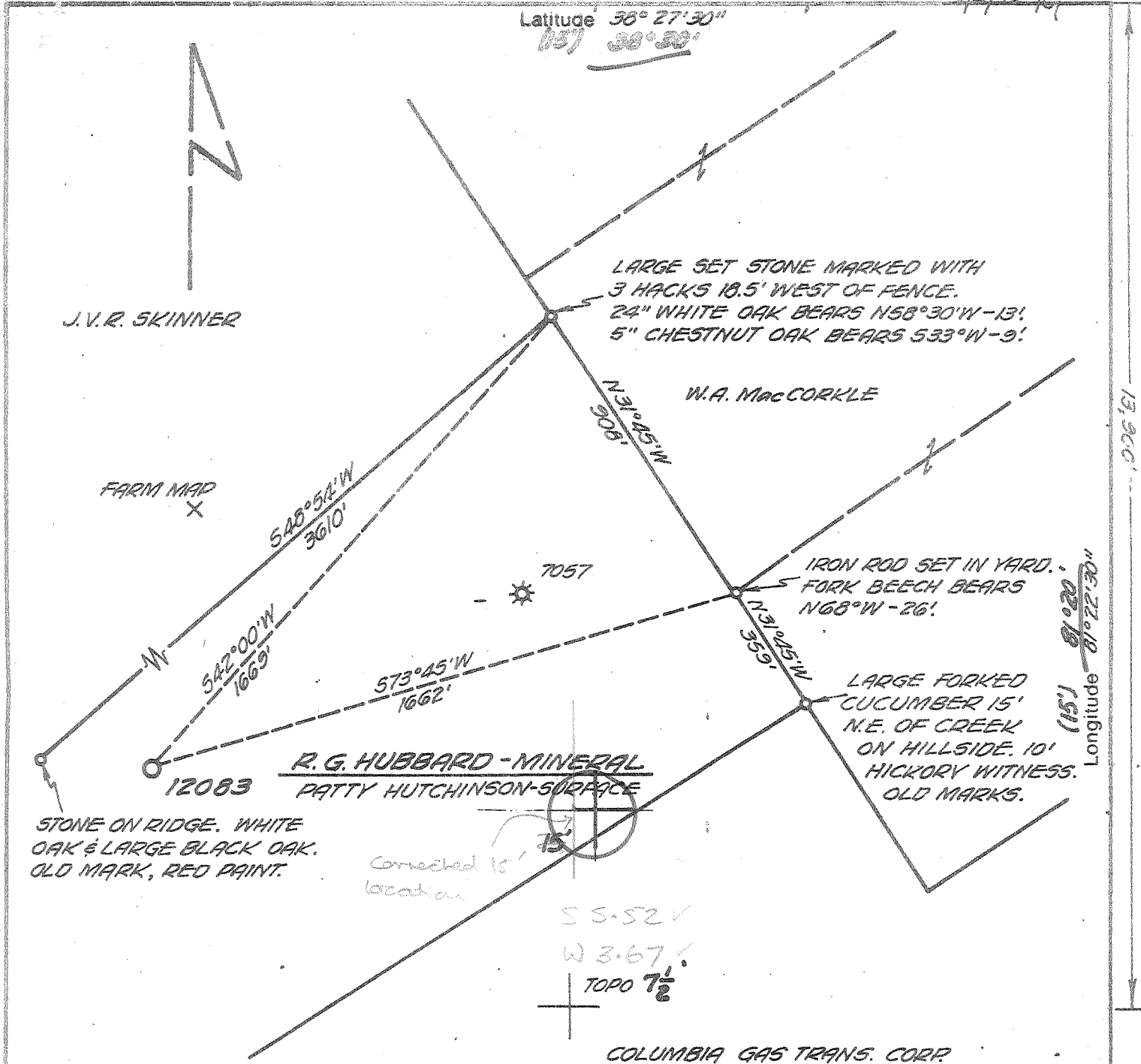


Latitude $36^{\circ} 27' 30''$

(15') $81^{\circ} 22' 30''$



STONE ON RIDGE. WHITE OAK & LARGE BLACK OAK. OLD MARK, RED PAINT.

Corrected 15' location

SS-52V
W 3.67%
TOPO 7 1/2'

COLUMBIA GAS TRANS. CORP.

BENCH MARK DESCRIPTION

U.S.G.S. STANDARD DISC 230-SKS-1956
63' S.W. OF & BRIDGE FOR ROAD OVER
3 MILE FORK OF BLUE CREEK IN S.E.
ABUTMENT OF R.R. BRIDGE.
ELEV. 635.76'

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

-
-
-
-
-

"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 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."

ENGR. REG. # 2330
BOX 1273 CHARLESTON, W. VA.

Signed

[Signature]

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W. VA.
 Farm R.G. HUBBARD, PATTY HUTCHINSON
 Lease 26320 Acres 84
 Well Farm No. _____ Ser. No. 12083
 Elevation - Spirit Level 1118.15', GLENDEN IN 15'
 Quadrangle BLUE CREEK, W. VA.
 Township or District ELK
 County KANAWHA
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LAT: 36° 25' 12" LONG: 81° 24' 04"
 File No. 74-63 Dwg. No. _____
 Date 12-21-77 Scale 1" = 400'

COLUMBIA GAS SYSTEM
 COLUMBIA GAS TRANSMISSION CORPORATION
WELL LOCATION MAP
WEST VIRGINIA
 NC (+) Denotes Values Of Well On United States Topographic Maps
KAN-2830
 Scale 15' 7 1/2'

Deep Well **47-039**

MAR 13 1978

DEEP WELL 9-9 5530' ORISKANY BLUE CR (HACKBERRY BR) 210

RECEIVED

NOV 15 1978



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES

Rotary
Spudder
Cable Tools
Storage

WELL RECORD

Oil or Gas Well Gas Storage
(KIND)

Quadrangle Blue Creek
Permit No. Kan.-2830

Company Columbia Gas Transmission Corp.
Address P.O. Box 610 Clendenin, W. Va.
Name R. G. Hubbard Acres 84
Location (waters) 3 Mile Fork of Blue Creek
Well No. 12083 Elev. 1118.15'
District Elk County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 4-10-78
Drilling completed 4-19-78
Date Shot From To
with _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"	95.80'	95.80'	
11 9-5/8"	2141.65'	2141.65'	Size of
8 1/4"			
7"	5430	5430	Depth set
5 3/16"			
4 1/2"			
3"			Perf. top
2 3/8"	5431.30	5431.30'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow 1/10ths Water in _____ Inch
1/10ths Merc. in _____ Inch
Volume 6 million Cu. Ft.
Block Pressure 1100 lbs. max. _____ hrs.

Attach copy of cementing record.
CASING CEMENTED 13-3/8" SIZE 95.8' No. Ft. 4-9-78 Date
Amount of cement used (bags) 100 sacks
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
WELL FRACTURED (DETAILS) 1032 BBLs with 45,000 lbs. 20-40 mesh sand
treating at 2700# pressure.

RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____
BLOCK PRESSURE AFTER TREATMENT 1100 PSIG HOURS _____ Maximum
Fresh Water _____ Feet _____ Salt Water _____ Salt Sand _____ Feet 1160' to 1550'
Producing Sand Oriskany Depth 5449' to 5480'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand/Shale			0	455			
Sand			455	463			
Sand/Shale			463	1160			
Salt Sand			1160	1550			
Shale			1550	1635			
Little Lime			1635	1680			
Pinacle Cave			1680	1682			
Big Lime			1682	1865		5323	
Jun Sand			1865	1900		1118	
Air			1900	2100		4205	
Shale			2100	5323			
Lime			5323	5449			
Oriskany			5449	5480			
Oriskany			5480	5520			

DEC 4 1978



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR - 3 1978

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE February 27, 1978

Surface Owner Patty Hutchinson
Address 280 Oakwood Rd., Charleston, W. Va.
Mineral Owner Patty Hutchinson, Et. Al.
Address 280 Oakwood Road, Charleston, W. Va.
Coal Owner Same as Above
Address _____
Coal Operator Not Operated
Address _____

Company Columbia Gas Transmission Corporation
Address P.O. Box 1273, Charleston, W. Va.
Farm R. G. Hubbard Acres 84
Location (waters) 3 Mile Fk. of Blue Creek
Well No. 12083 Elevation 1118.15'
District Elk County Kanawha
Quadrangle Blue Creek

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 7-7-78.

INSPECTOR
TO BE NOTIFIED Martin Nichols
ADDRESS P.O. Box 554, Clendenin, W. Va.
PHONE 548-6993

[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 April 27 19 50 by R. G. Hubbard made to United Fuel Gas Company and recorded on the --- day of --- 19---, in Kanawha County, Book 123 Page 171

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

Address
of
Well Operator

Very truly yours,
(Sign Name) [Signature]
Director Well Operator
Exploration and Development
P. O. Box 1273
Street
Charleston,
City or Town
West Virginia 25325
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

KAN-2830 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."

47-039

Signed by [Signature]
Director, Exploration and Development

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 Larry Friend
 ADDRESS _____ ADDRESS P.O.Box 610, Clendenin, W. Va.
 TELEPHONE _____ TELEPHONE 304/965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: 5530' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE X 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 - 1/4"	30'		Cement to Surface
13 - 1/4" 3/8"	200'		Cement to Surface
9 - 5/8"	2150'		Cement to Surface
8 - 5/8"			
7"	5450'		
5 1/2"			
4 1/2"			
3"			Perf. Top
2 3/8"	5455'		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? 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

Official Title