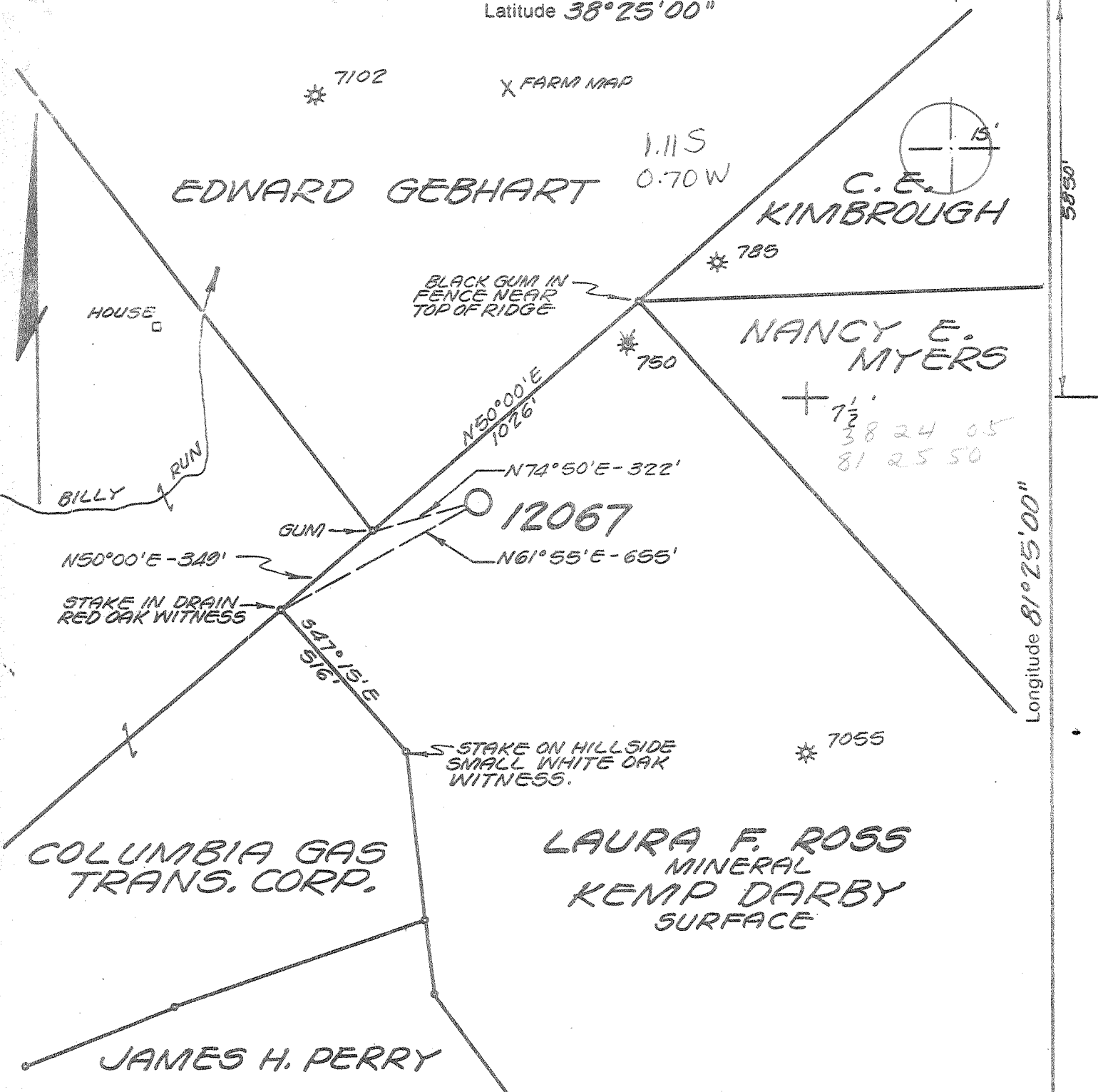


Latitude 38° 25' 00"



BENCH MARK DESCRIPTION

STANDARD DISK SET IN CONCRETE POST AT N.Y. CENTRAL RAILROAD OVERPASS OVER COUNTY ROAD 33' EAST OF E ROAD NORTHEAST CORNER OF TRESTLE S.S' LOWER THAN TRACK STAMPED 231-SKS-1956-652 ELEVATION 651.63'

"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. NO 2330 Signed William E. Gardner
 BOX 1273 CHARLESTON, W.VA.

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W.VA.
 Farm LAURA F. ROSS
 Lease 4081 Acres 106.0
 Well Farm No. _____ Ser. No. 12067
 Elevation - Spirit Level 1138.63' WC
 Quadrangle BLUE CREEK, CLENDENIN 15'
 Township or District ELK
 County KANAWHA
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LONG. 81° 25' 44" LAT. 38° 24' 02"
 File No. 72-61 Dwg. No. _____
 Date 8-8-77 Scale 1" = 400'

WELL LOCATION MAP
 STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

KAN-2792

Scale 15' 7 1/2'

Deep well 47-039 OCT 7 1977

72 Plot to 750 to Blue Creek (217)

RECEIVED

JAN 24 1978

OIL & GAS DIVISION
DEPT. OF MINES



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Oil or Gas Well Gas
(KIND)

WELL RECORD

Form OG-10
Quadrangle Blue Creek
Permit No. Kan 2792

Company Columbia Gas Transmission Corp.
Address Box 1273 Charleston, W. Va.
Farm Laura F. Ross Acres 106
Location (waters) Elk Lick
Well No. 12067 Elev 1138.63
District Elk County Kanawha
The surface of tract is owned in fee by Kemp Darby
Address _____
Mineral rights are owned by Clara B. Lane
Address St. Albans, W. Va.
Drilling commenced September 28, 1977
Drilling completed October 11, 1977
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 7.3 MM Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) 1082 bbls & 49,000# of 20/40 Sand used on a water frac

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"	269'	269'	
10			Size of
9 5/8"	2153	2153	
6 5/8"			Depth set
4 7/8"	5331'	5331'	
3			Perf. top
2 3/8"	5386'	5386'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Amount of cement used (bags) _____
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 7.3 MMCF
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water _____ Feet _____ Salt Water Salt Sand Form Feet 1542-1634
Producing Sand Oriskany Depth 5410 to 5460

STORAGE

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay	Red		0	30			
Sand			30	950			
Salt Sand			950	1520			
Red Rock	Red		1520	1542			
Salt Sand			1542	1634	Salt Water		
Maxon Sand			1634	1658			
Little Lime			1658	1840			
Injun			1840	1910			
Shale			1910	5296			
Coniferous			5296	5410	5296	5410	
Oriskany			5410	5460	1139	1139	
Shale			5460	5477	4157	4271	



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
SEP 21 1977

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE September 16, 1977

Surface Owner Kemp Darby

Company Columbia Gas Trans. Corp.

Address _____

Address P.O. Box 1273, Charleston, W. Va.

Mineral Owner Clara B. Lowe

Farm Laura F. Ross Acres 106

Address 244 W. Main St., St. Albans, W. Va.

Location (waters) Elk Lick

Coal Owner Opal Halstead et al

Well No. 12067 Elevation 1138.63

Address 489-3rd Ave., Madison, W. Va.

District Elk County Kanawha

Coal Operator Not Operated

Quadrangle Blue Creek

Address _____

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 1-22-78.

INSPECTOR
TO BE NOTIFIED Mr. Martin Nichols
ADDRESS P.O. Box 554, Clendenin, W. Va. 25045
PHONE 548-6993

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 24 1950 by Laura F. Ross made to United Fuel Gas Co. and recorded on the _____ day of _____ 19____, in Kanawha County, Book 129 Page 333
 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:

Very truly yours,

(Sign Name) _____
Well Operator
Director, Exploration & Development
PO Box 1273
Street
Charleston
City or Town
West Virginia 25325
State

W. VA. OIL & GAS CONSERVATION COMMISSION
1613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

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-2792 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
Director, Exploration & Development

