



BENCH MARK DESCRIPTION

COCO - N.Y. CENTRAL RAILROAD OVERPASS OVER COUNTY ROAD 33' EAST OF E OF ROAD AT N.E. CORNER OF TRESTLE IN CONCRETE POST - STANDARD DISK STAMPED 231-SKS. 1956-652-U.S.B.M. - 651,633

- 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. NO 2330
BOX 1273 CHARLESTON, W.VA.

Signed *Adrian Edmondson*

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W.VA.
 Farm JAMES H. PERRY SHIRLEY EDENS
 Lease 11347 Acres 162.95
 Well Farm No. _____ Ser. No. 12068
 Elevation - Spirit Level 1112.31' WC
 Quadrangle BLUE CREEK, GLENDINEN 15'
 Township or District ELK
 County KANAWHA
 Sec., Lot, Or. _____ T _____ R _____
 Coordinates LAT. 38°23'25" LONG. 81°25'29"
 File No. 72-61 Dwg. No. _____
 Date 7-26-77 Scale 1" = 400'

STATE OF WEST VIRGINIA

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

KAN-2791

Scale 15' 7 1/2'

Deep well
47-039

OCT 7 1977

9-046 Blue Creek (2.18)

RECEIVED

JAN 24 1978



OIL & GAS DIVISION DEPT. OF MINES

Form OG-10

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

- Rotary [X] Spudder [] Cable Tools [] Storage [X] Oil or Gas Well Gas (KIND)

Quadrangle Blue Creek Permit No. Kan. 2791

WELL RECORD

Company Columbia Gas Transmission Address P.O. Box 610, Clendenin, WV Farm James Perry Acres 152 Location (waters) Blue Creek Well No. 12068 Elev. 1112.31 District Elk County Kanawha The surface of tract is owned in fee by Shirley Edens Mineral rights are owned by Beulah M. Sawyers Farr Drilling commenced 9-12-77 Drilling completed 9-25-77 Date Shot From To With

Table with columns: Casing and Tubing, Used in Drilling, Left in Well, Packers. Includes rows for sizes 16, 13, 9-5/8, 7, 6, 5 3/16, 4 1/2, 3, 2 3/8 and packer details.

Open Flow /10ths Water in Inch /10ths Merc. in Inch Volume 5.4 MM Cu. Ft. Rock Pressure 1670# lbs. 24 hrs. Oil bbls., 1st 24 hrs. WELL ACIDIZED (DETAILS)

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

WELL FRACTURED (DETAILS) Used mud acid 1000 MCA 1700# to breakdown & treated at 3143# flushed with 3800# total 1075 bbl. at 3000#. Fractured with 20-40 sand -45,000# sand RESULT AFTER TREATMENT (Initial open Flow or bbls.) 5.4 MMCF for 24 hrs. ROCK PRESSURE AFTER TREATMENT 1670# HOURS 24hrs. Fresh Water Feet Salt Water Feet Producing Sand Oriskany Depth 5368 - 5418

STORAGE

Main well log table with columns: Formation, Color, Hard or Soft, Top, Bottom, Oil, Gas or Water, Depth, Remarks. Includes entries for Sand, Shale, Salt Sand, Lime & Shale, Big Lime, Injun, Corniferous, Oriskany, and Shale with depth markers.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

SEP 13 1977

OIL AND GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE September 8, 1977
Company Columbia Gas Transmission Corp.
Address P.O. Box 1273, Chas., WV 25325
Farm James H. Perry Acres 162
Location (waters) Elk Lick Creek
Well No. 12068 Elevation 1112.31'
District Elk County Kanawha
Quadrangle Blue Creek

Surface Owner Shirley Edens
Address Blue Creek WV 25026
Mineral Owner Nancy P. Boyce et.al.
Address Rt. #3, Box 453, Elkview, WV25071
Coal Owner Beulah M. Sawyers Farr et.al.
Address 2102 Beverly St., Parkersburg, WV
Coal Operator Not Operated
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 1-13-78.

INSPECTOR
TO BE NOTIFIED Mr. Martin Nichols
ADDRESS P.O. Box 554, Clendenin, WV 25045
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 1, 1948 by J. H. Perry made to United Fuel Gas Co. and recorded on the _____ day of _____ 19____, in Kanawha County, Book 116 Page 419

XX 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, Columbia Gas Transmission Corp.
(Sign Name) [Signature]
Well Operator
Director, Exploration & 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-2791 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 & Development

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

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME Mr. Larry Friend
 ADDRESS _____ ADDRESS P.O. Box 610, Clendenin, WV 250
 TELEPHONE _____ TELEPHONE (304) 965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: 5334' ROTARY XX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE XX DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

CASING PROGRAM:

PIPE SIZE	DEPTH FOR	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20	20'		To Surface
13 - 3/8	250'		To Surface
9 - 5/8	2150'		To Surface
8 - 5/8			
7	5250'		
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS _____
 _____ IN THE AREA? NO BY _____

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