

BENCH MARK DESCRIPTION

U.S. GOVERNMENT TBM #186-RAILROAD SPIKE IN BASE OF POWER POLE. MOUTH OF ABBOTT BRANCH-ELEVATION 739.22'

- 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. N^o 2330
BOX 1273 CHARLESTON, W. VA.

Signed *Adrian E. [Signature]*

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W. VA.
 Farm CLORIS DILLMORE, ET AL.
DOROTHY M. BELCHER
 Lease 807 Acres 65
 Well Farm No. _____ Ser. No. 12120
 Elevation - Spirit Level 1038.45'
 Quadrangle CLANDENIN, W. VA. NW
 Township or District ELK
 County KANAWHA
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LAT. 38°25'13" LONG. 81°27'39"
 File No. 70-63 Dwg. No. _____
 Date 7-13-78 Scale 1" = 400'
 Gst ---

FORM 1495 CE 4 CSD

COLUMBIA GAS SYSTEM
 COLUMBIA GAS TRANSMISSION CORPORATION
WELL LOCATION MAP

STATE OF WEST VIRGINIA

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

KAN - 3365

Scale 15' 7 1/2'

Deep Well **A7-039** ²¹⁶
 9-9 Blue Creek (317)

DEC 4 1978

5485 Oviskany



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Blue Creek

Permit No. Kan-3365 (039)

WELL RECORD ²⁴

Oil or Gas Well Storage
(KIND)

Company Columbia Gas Trans. Corp.
Address PO Box 610 Clendenin, WV 25045
Farm Cloris Dillmore ex.al. Acres 65
Location (waters) Potato Creek
Well No. 12120 Elev. 1038.45
District Elk County Kanawha
The surface of tract is owned in fee by Dorothy Meyers
Belcher Address _____

Mineral rights are owned by Cloris Dillmore
Pinellas Pk., Fla. Address _____

Drilling commenced January 20, 1979
Drilling completed February 6, 1979
Date Shot From _____ To _____

With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch

Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) 1000 gal. 15%

WELL FRACTURED (DETAILS) 805 bbls. with 25,000# 20/40 Sand

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 39.3 million MCF
ROCK PRESSURE AFTER TREATMENT 1260 PSI HOURS 48 hrs.

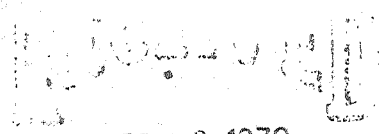
Fresh Water _____ Feet _____ Salt Water Salt Sand Feet 1240-1590
Producing Sand Oriskany Sand Depth 5369-5425

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16		88	
13 3/8"			Size of
10		2309	Depth set
9-5/8"			
6 3/4"		5340'	
5 7/8"			Perf. top
4 1/2"			Perf. bottom
3		5325'	
2 3/8"			Perf. top
Liners Used			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 13-3/8 SIZE 88 No. Ft. 1-28-79 Date
Amount of cement used (bags) 150 Class-A
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT 460 FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	75			
Shale			75	80			
Sand			80	100			
Sandy Shale			100	460			
Coal			460	464			
Shale			464	590			
Sand			590	620			
Shale			620	800			
Sand			800	810			
Shale			810	1140			
Sand			1140	1240			
Salt Sand			1240	1590			
Shale			1590	1720			
Little Lime			1720	1748			
Pencil Cave			1748	1750			
Big Lime			1750	1930			
Injun			1930	1942			
Shale			1942	2155			
Wier			2155	2360			
Shale			2360	5240			
Lime			5240	5369			
Oriskany			5369	5426			
Helderburg			5426	5446 TD			

SEP 10 1979
OIL & GAS DIVISION
DEPT. OF MINES

Formation	Color	Hard or Soft	Top 24	Bottom	Oil, Gas or Water	Depth Found	Remarks
<p><u>WELL #12120</u></p> <p>9-5/8" Casing was cemented on 1-31-79 using 600 sacks pozimix and 150 sacks class-A cement by Halliburton.</p> <p>7" Casing was cemented using 100 sacks pozimix and 100 sacks neat on 2-6-79 by Halliburton.</p> <p style="text-align: center;">  SEP 10 1979 OIL & GAS DIVISION DEPT. OF MINES </p>							

Date September 6, 1979

APPROVED

Bernard Prather

By

Alicia Technical Support

(Title)

C. P. O. For Trans Corp



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

NOV 1 1978

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 9, 1978

Surface Owner Dorothy Myers Belcher

Company Columbia Gas Transmission Corp.

Address _____

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

Mineral Owner Cloris G. Dillmore

Farm Cloris Dillmore etal Acres 65

Address 5372 Acacia Trail, Pinellas Pk., Fla.

Location (waters) Potato Creek

Coal Owner Dorothy M. Belcher

Well No. 12120 Elevation 1038.45'

Address _____

District Elk County Kenawha

Coal Operator Unoperated

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 3-14-79.

INSPECTOR
TO BE NOTIFIED Martin Nichols

ADDRESS P. O. Box 554, Clendenin, W. Va.

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 July 12, 1951 by D. M. Belcher made to United Fuel Gas Company and recorded on the _____ day of _____ 19____, in Kanawha County, Book 128 Page 93

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)
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-3365

PERMIT NUMBER

47-039

**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 965-3317 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 5485' 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	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT
20 - 16			
13 - XX 3/8	150'		To surface
9 - 5/8	2310'		To surface
8 - 5/8			
7	5350'		
5 1/2			
4 1/2			
3			Perf. Top
2 3/8	5380'		Perf. Bottom
1 1/2			Perf. Top
1			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