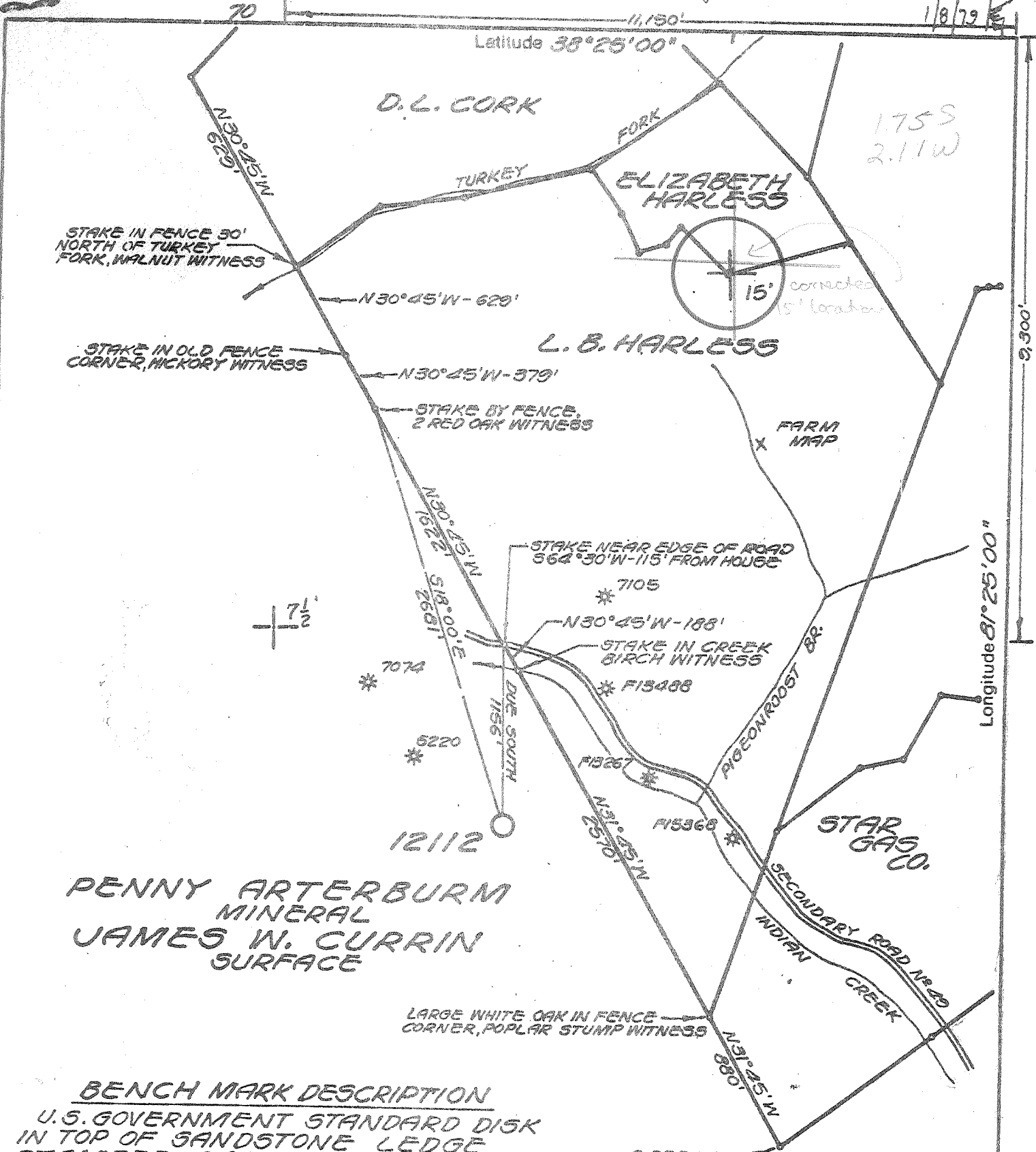


1/8/79



PENNY ARTERBURN
MINERAL
JAMES W. CURRIN
SURFACE

BENCH MARK DESCRIPTION

U.S. GOVERNMENT STANDARD DISK
IN TOP OF SANDSTONE LEDGE
STAMPED 242-SKS-1956-
ELEV. 753.0'

- 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.

L.L.S. No 102
BOX 1273 CHARLESTON, W. VA.

Signed *James Foster*

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W. VA.
 Farm PENNY ARTERBURN, Jas. W. Currin
 Lease 42732 Acres 1025 ac
 Well Farm No. _____ Ser. No. 12112
 Elevation - Spirit Level 1079.86' WC
 Quadrangle BLUE CREEK, W. VA., Clendenin 15
 Township or District ELK
 County KANAWHA
 Sec. Lot, Qr. _____ T _____ R _____
 Coordinates LAT. 38°23'27" LONG. 81°27'21"
 File No. 70-61 Dwg. No. _____
 Date 7-27-78 Scale 1" = 800'

FORM 1495 CE 4 OSD
 COLUMBIA GAS SYSTEM
 COLUMBIA GAS TRANSMISSION CORPORATION
 WELL LOCATION MAP
 STATE OF WEST VIRGINIA
 (+) Denotes Values Of Well On United States Topographic Maps
 47-039-3375
 Scale 15' 7 1/2'
 Deep Well 216
 FEB 6 1979

Original in Blue Creek (217)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES

OCT 10 1979

Cable Tools
Storage

Quadrangle.....

WELL RECORD

Permit No. Kan. 3375

Oil or Gas Well Gas (KIND)

Company Columbia Gas Trans. Corp.
Address P.O. Box 610 Clendenin, WV
Farm Penny Arterburn Acres 1025
Location (waters) Indian Creek
Well No. 12112 Elev. 1079.86
District County Kanawha
The surface of tract is owned in fee by James W. Currins
Address

Mineral rights are owned by
Address

Drilling commenced 2-20-79
Drilling completed 3-4-79
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)

WELL FRACTURED (DETAILS) 735 BBLS w/ 21,500# 20/40 Sand

RESULT AFTER TREATMENT (Initial open Flow or bbla.) 5.7 MMCE

ROCK PRESSURE AFTER TREATMENT 1370 PSIG HOURS 72

Fresh Water Feet Salt Water Feet

Producing Sand Oriskany Depth 5408'

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"		94.60'	
10			Size of
9 5/8"		2147.85'	
6 5/8"			Depth set
5 7/8"		5327'	
4 1/2"			Perf. top
3			Perf. bottom
2 3/8"		5348.25'	Perf. top
Liners Used			Perf. bottom

Attach copy of cementing record.

CASING CEMENTED 13-3/8" SIZE 94.60' No. Ft. 2-21-79 Date

Amount of cement used (bags) 150 Class-A

Name of Service Co. Halliburton

COAL WAS ENCOUNTERED AT FEET INCHES

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	5			
Sand & Shale			5	40			
Sand			40	115			
Shale			115	600			
Sand			600	604			
Coal			604	606			
Sand			606	700			
Shale			700	945			
Sand			945	1038			
Salt Sand			1038	1464	H2O		
Shale			1464	1500			
Maxom			1500	1646			
Little Lime			1646	1665			
Big Lime			1665	1920			
Weir			1920	2100			
Shale			2100	5224			
Onondaga Lime			5224	5346	Well 12112		
Oriskany			5346	5408			

9-5/8" Casing set on 2-27-79 using 700 sacks cement by Halliburton Services.

7" Casing cemented on 3-2-79 using 200 sacks cement by Halliburton Services

OCT 22 1979



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JAN 4 1979

OIL AND GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE January 4, 1978

Surface Owner James W. Currin
Address _____
Mineral Owner Penny Arterburn
Address Rt. 1 Box 362, Flowery Branch, GA
Coal Owner W. E. Widmer
Address Box 732, Excelsior Springs, MO
Coal Operator Unoperated
Address _____

Company Columbia Gas Transmission Corporation
Address P.O. Box 1273, Charleston, W. Va.
Farm Penny Arterburn Acres 102.5
Location (waters) Indian Creek
Well No. 12112 Elevation 1079.86'
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 9-9-79.

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 May 5, 1950 by Marcia E. Widmer made to United Fuel Gas Company and recorded on the _____ day of _____ 19____, in Kanawha County, Book 123 Page 191

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) _____
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 BOARD

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, WV
 TELEPHONE _____ TELEPHONE 965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: _____ 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 (BUCKETS OR SACKS - CUBIC FT)
20 - 16			
13 - X 3/8	150'		To surface
9 - 5/8	2160'		To surface
8 - 5/8			
7	5310'		
5 1/2			
4 1/2			
3			
2 3/8	5335'		Perf. Top
			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