



**BENCH MARK DESCRIPTION**  
RAILROAD SPIKE IN BASE OF POWER POLE # 73-66 SOUTH SIDE PINCH CREEK ROAD ELEVATION 682.41'

- 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 Signed *Arvonne E. Chapman*  
BOX 1273 CHARLESTON, W. VA.

Company COLUMBIA GAS TRANS. CORP.  
Address BOX 1273 CHARLESTON, W. VA.  
Farm ALMA BRYANT, George G. Bryant  
Lease 48345 Acres 100  
Well Farm No. \_\_\_\_\_ Ser. No. 12119  
Elevation - Spirit Level 1036.97' *WC*  
Quadrangle BLUE CREEK, CLENDENIN 15'  
Township or District ELK  
County KANAWHA  
Sec., Lot, Gr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
Coordinates LAT. 38°24'27" LONG. 81°30'28"  
File No. 70-63 Dwg. No. \_\_\_\_\_  
Date JULY 10, 1978 Scale 1" = 400'

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 - 3344**  
Scale 15'  7 1/2'   
*Deep Well*  
**47-039**  
SEP 11 1978

*5427' Diskand 99 to 6 Blue Creek (217)*

RECEIVED

OCT 10 1979

Form OG-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

OIL & GAS DIVISION  
DEPT. OF MINES

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle.....

WELL RECORD

Permit No. Kan. 3344

Oil or Gas Well..... Gas (KIND)

Company Columbia Gas Trans. Corp.  
 Address P.O. Box 610 Clendenin, WV  
 Farm Alma Bryant Acres 100  
 Location (waters) Indian Creek  
 Well No. 12119 Elev. 1036.97  
 District Elk County Kanawha  
 The surface of tract is owned in fee by.....  
 Address.....  
 Mineral rights are owned by Alma Bryant  
 Address Charleston, WV  
 Drilling commenced October 7, 1979  
 Drilling completed October 18, 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.  
 WELL FRACTURED (DETAILS) 750 BBLs with 30,000# 20/40 Sand

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"		120.50	
10			Size of
8 9-5/8"		2201.15	
8 7"		5348.85	Depth set
5 3/16			
4 1/2			
3			Perf. top
2 3/8		5356.75	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.  
 CASING CEMENTED 13-3/8" SIZE 120 No. Ft. 10-8-79 Date  
 Amount of cement used (bags) 150 Neat  
 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.) 2.4 MMCF  
 ROCK PRESSURE AFTER TREATMENT 1480 PSI HOURS 48  
 Fresh Water..... Feet Salt Water..... Feet  
 Producing Sand Oriskany Depth 5250' - 5330'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Clay			0	15			
Sand & Shale			15	1085			
Salt Sand			1085	1580			
Red Rock & Shale			1580	1670			
Maxon			1670	1710			
Little Lime			1710	1750			
Big Lime			1750	1925			
Injun Sand			1925	2012			
Wier Sand			2012	2165			
Shale			2165	5224			
Onandaga Lime			5224	5250			
Oriskany			5250	5330			

Well 12119  
 9-5/8" Casing set on 10-11-78 using 700 sacks cement by Halliburton Services.  
 7" Casing was set on 10-15-78 using 150 sacks cement by Halliburton

logged to @ least 5427  
 Dr. TD on log 5428  
 logged to on log 5440

OCT 22 1979



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED  
AUG 22 1978  
OIL & GAS DIVISION  
DEPT. OF MINES

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

DATE August 21, 1978

Surface Owner George G. Bryant

Company Columbia Gas Transmission Corp.

Address \_\_\_\_\_

Address P. O. Box 1273, Charleston, WV

Mineral Owner Alma Bryant

Farm Alma Bryant Acres 100

Address 2519 Bench Road, Charleston, WV

Location (waters) Pinch Creek

Coal Owner Same as above

Well No. 12119 Elevation 1036.97

Address \_\_\_\_\_

District Elk County Kanawha

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

INSPECTOR

for drilling. This permit shall expire if to be notified \_\_\_\_\_  
operations have not commenced by 12-23-78

*[Signature]*  
Deputy Director - Oil & Gas Division

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

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 4, 1951 by Alma Bryant made to United Fuel Gas Co. and recorded on the --- day of --- 19-- in Kanawha County, Book 126 Page 483

X 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

Very truly yours,

(Sign Name) *[Signature]*  
Director, Exploration & Development  
P. O. Box 1273

Address of Well Operator

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.

KAN-3344 PERMIT NUMBER

47-039

BLANKET ROAD

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

PROPOSED WORK ORDER TO  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: 5427' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Ori skany \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE  DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FEET UP, OR SACKS - CUBIC FT
20 - 16			
13 - XX 3/8	150'		Cement to Surface
9 - 5/8	2250'		Cement to Surface
8 - 5/8			
7	5320'		
5 1/2			
4 1/2			
3			
2 3/8	5345'		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