



BENJAMIN E. BROWN JR., ET. AL.
MINERAL
GOSHORN HEIRS
SURFACE

BENCH MARK DESCRIPTION

U.S.C. & G.S. STANDARD DISK SET IN MONUMENT AT NEW YORK CENTRAL RAILROAD OVERPASS - STAMPED 231 SKS - 1956-652 ELEV. 651.63'

STAKE ON TOP OF RIDGE BETWEEN 30' WHITE OAK & LEANING HICKORY MARKED & FACING EACH OTHER

- 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 *Samuel Foster*

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W. VA.
 Farm BENJAMIN E. BROWN JR., ET. AL., Goshorn
 Lease 48180-48341 Acres 787
 Well Farm No. _____ Ser. No. 12115
 Elevation - Spirit Level 1139.25'
 Quadrangle BLUE CREEK, CLENDENIN 15'
 Township or District ELK
 County KANAWHA
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LAT. 38°24'16" LONG 81°22'19"
 File No. 72-63 Dwg. No. _____
 Date 6-13-78 Scale 1" = 800'

FORM 1495 CE 4 CSD
 COLUMBIA GAS SYSTEM
 COLUMBIA GAS TRANSMISSION CORPORATION
WELL LOCATION MAP
 Mrs **STATE OF WEST VIRGINIA**
 (+) Denotes Values Of Well On United States Topographic Maps
KAN-3213
 Scale 15' 7 1/2'
47-039
 Deep Well
 JUL 31 1978

5500 Guspany 9-0 6 to Blue Creek (217) 9



RECEIVED

OCT 10 1979

OIL & GAS DIVISION
 STATE OF WEST VIRGINIA DEPT. OF MINES
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

- Rotary Spudder
- Cable Tools
- Storage

WELL RECORD

Quadrangle Blue Creek
 Permit No. Kan. 3213

Oil or Gas Well Gas
 (KIND)

Company Columbia Gas Trans. Corp.
 Address P.O. Box 610 Clendenin, WV
 Farm Benjamin E. Brown Acrea 787
 Location (waters) Blue Creek
 Well No. 12115 Elev. 1139.45'
 District Elk County Kanawha
 The surface of tract is owned in fee by Goshorn Heirs
 Address _____
 Mineral rights are owned by Benjamin E. Brown, Trustee
 Address P.O. Box 2746 Chas. WV
 Drilling commenced August 23, 1978
 Drilling completed September 6, 1978
 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. MCA 15%
 WELL FRACTURED (DETAILS) 818 BBLs Fluid 30,000#

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"		90.40'	Size of
10			Depth set
9-5/8"		2096.80'	
6 1/2"			Perf. top
5 3/16"			Perf. bottom
4 7/8"		5413'	Perf. top
3"			Perf. bottom
2 3/8"		5408.20'	
Liners Used			

Attach copy of cementing record.
 CASING CEMENTED 13-3/8" SIZE 90.40' No. Ft. 8/25/78 Da
 Amount of cement used (bags) 150 sacks
 Name of Service Co. Halliburton Services
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
20/40 Sand & 92,500 SCF N₂

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 7.0 million MCF 7,000 MCF
 ROCK PRESSURE AFTER TREATMENT 1430 PSIG HOURS 48 hours
 Fresh Water _____ Feet _____ Salt Water _____ Feet _____
 Producing Sand Oriskany Depth 5425' to 5447'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soap Stone			0	25			
Sandy Shale			25	40			
Sand			40	103	H ₂ O		
Sand			103	180			
Shale			180	315			
Sand			315	400			
Shale			400	500			
Coal			500	505			
Shale			505	815			
Coal			815	825			
Shale			825	950			
Salt Sand			950	1500			
Red Rock			1500	1510			
Shale			1510	1600			
Maxon Sand			1600	1620			
Shale			1620	1635			
Little Lime			1635	1680			
Lime			1680	1859			
Injun Sand			1859	1900			
Wier Sand			1900	2085			
Shale			2085	5314			
Onondaga Lime			5314	5425			
Oriskany Sand			5425	5447			
Hildenbury Lime			5447	5500 TD			

Well 12115
 9-5/8" Casing was set on 8/30/78 using 700 sacks cement by Halliburton Service

OCT 22 1979

7" Casing was set on 9/3/78 using 200



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUL 17 1978

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE July 17, 1978

Surface Owner Goshorn Heirs
Address _____
Mineral Owner Benjamin E. Brown, Trustee
Address P. O. Box 2746, Charleston, W. Va. 25330
Coal Owner Same as above
Address _____
Coal Operator Unoperated
Address _____

Company Columbia Gas Transmission Corp.
Address P. O. Box 1273, Charleston, W. Va.
Farm Benjamin E. Brown Acres 787
Location (waters) Blue Creek
Well No. 20115 Elevation 1139.45'
District Elk County Kanawha
Quadrangle Blue Creek

THIS PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,
the W. Va. Code, the location is hereby approved
for drilling. This permit shall expire if
operations have not commenced by 11-17-78.

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

Robert H. [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 May 1, 1950 by Goshorn Heirs made to United Fuel Gas Company and recorded on the -- day of -- 19--, in Kanawha County, Book 123 Page 401
 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) *Robert L. [Signature]*
Well Operator
Manager, Drilling
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

KAN-3213 PERMIT NUMBER

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: 5500' 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 LIFT UP, OR SACKS - CUBIC FT
20 - 16			
13 - X 3/8	200'		To surface
9 - 5/8	2125'		To surface
8 - 5/8			
7	5400'		
5 1/2			
4 1/2			
3			
2 3/8	5420'		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