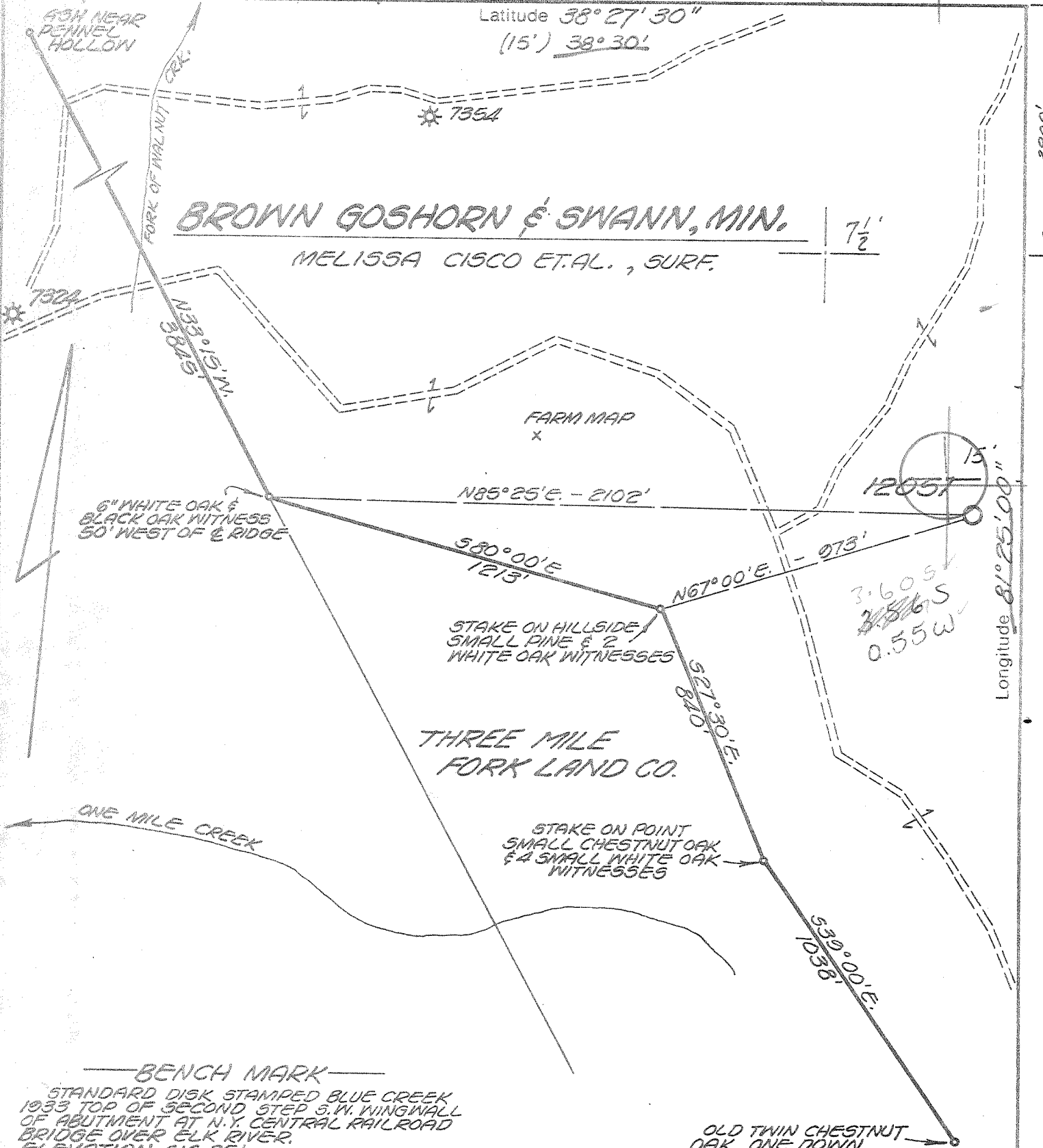


Latitude $38^{\circ} 27' 30''$
(15') $38^{\circ} 30'$

BROWN GOSHORN & SWANN, MIN.

MELISSA CISCO ET AL., SURF.



Longitude $81^{\circ} 25' 00''$

BENCH MARK

STANDARD DISK STAMPED BLUE CREEK
1933 TOP OF SECOND STEP S.W. WINGWALL
OF ABUTMENT AT N.Y. CENTRAL RAILROAD
BRIDGE OVER ELK RIVER.
ELEVATION 616.35'

OLD TWIN CHESTNUT
OAK, ONE DOWN

- 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 *Arthur E. Newberry*

Company COLUMBIA GAS TRANS CORP.
Address BOX 1273 CHARLESTON, W.VA.
Farm BROWN GOSHORN & SWANN
Lease PT. 2274 Acres 8096.2
Well Farm No. 211 Ser. No. 12051
Elevation - Spirit Level 852.79' NW
Quadrangle BLUE CREEK, GLENDEN IN 15'
Township or District ELK
County KANAWHA
Sec., Lot, Qr. _____ T _____ R _____
Coordinates LAT. 38° 26' 52" LONG. 81° 25' 37"
File No. 72-65 Dwg. No. _____
Date 2-26-76 Scale 1" = 400'

WELL LOCATION MAP
STATE OF WEST VIRGINIA

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

KAN-2784

Scale 15' 7 1/2'

47-039

9.0 ~~5.5~~ Blue Creek (217) Deep well

AUG 29 1977

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JAN 24 1978

OIL & GAS DIVISION
DEPT. OF MINES



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Form OG-10

Quadrangle.....

Permit No. Kan. 2784

WELL RECORD

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

Company Columbia Gas Trans. Corp.
Address Charleston, W. Va.
Farm Melissa Cisco Acres -
Location (waters) Blue Creek
Well No. 12051 Elev. 862
District Elk County Kanawha
The surface of tract is owned in fee by Melissa Cisco
Address Charleston
Mineral rights are owned by James F. Brown, III
Address Charleston
Drilling commenced 8-10-77
Drilling completed 8-21-77
Date Shot - From - To -
With -

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	196	196	
9-5/8	2068	2068	Size of
8 1/4			
7	5240	5240	Depth set
5 3/16			
4 1/2			
3			Perf. top
2 tubing		5278	Perf. bottom Open Hole
Liners Used			Perf. top
			Perf. bottom

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

Volume 4.3 MM Cu. Ft.

Rock Pressure 1618 lbs. 24 hrs.

Oil..... bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS).....

WELL FRACTURED (DETAILS) Water-Frac-1134 bbls. fluid - 40,000# sand

Attach copy of cementing record.
CASING CEMENTED..... SIZE..... No. F..... Date
Amount of cement used (bags).....
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT..... FEET..... INCHES
..... FEET..... INCHES
..... FEET..... INCHES

STORAGE

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 4.3 MMCF

ROCK PRESSURE AFTER TREATMENT 1618 HOURS 24

Fresh Water..... Feet..... Salt Water..... Feet.....

Producing Sand Oriskany Depth 5274-5316

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Salt Sand		Hard	950	1375	Water	960	
Red Rock		Soft	1375	1540			
Maxon		Hard	1540	1570			
Big Lime		Hard	1570	1760			
Injun		Hard	1760	1880			
Shale		Soft	1880	1920			
Weir Sand		Hard	1920	1950			
Shale		Soft	1950	5100			
Corniferous		Hard	5100	5274			
Oriskany		Hard	5274	5316	Gas	5285	
Shale		Hard	5316	5344			

5100
862

-4238

FEB 3 1978



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

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OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE August 3, 1977

Surface Owner Melissa Cisco, et. al.
Address _____

Company Columbia Gas Transmission Corporation
Address P.O. Box 1273, Charleston, W. Va.

Mineral Owner James F. Brown, III, Trustee
Address P.O. Box 88, Charleston, W. Va.

Farm Brown, Goshorn & Swann #211 Acres 8096
Location (waters) Walnut Creek

Coal Owner James F. Brown, III, Trustee
Address P.O. Box 88, Charleston, W. Va.

Well No. 211-S 12051 Elevation 852.70'
District Elk County Kanawha

Coal Operator Not operated
Address _____

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 12-3-77.

INSPECTOR
TO BE NOTIFIED Mr. Martin Nichols
ADDRESS P.O. Box 554, Clendenin, W.Va. 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 November 29 1954 by J.F. Brown, III, Trustee made to United Fuel Gas Company and recorded on the _____ day of _____ 19____, in Kanawha County, Book 137 Page 1

STORAGE
 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]
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-2784 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 X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME Mr. Larry Friend
 ADDRESS _____ ADDRESS P.O.Box 610, Clendenin, W.Va. 25045
 TELEPHONE _____ TELEPHONE (304) 965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: 5350' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 2 1/2	20'		Cement to Surface
13 - 2 1/2 3/8"	250'		Cement to Surface
9 - 5/8	2100'		Cement to Surface
8 - 5/8			
7	5270'		
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 _____
 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