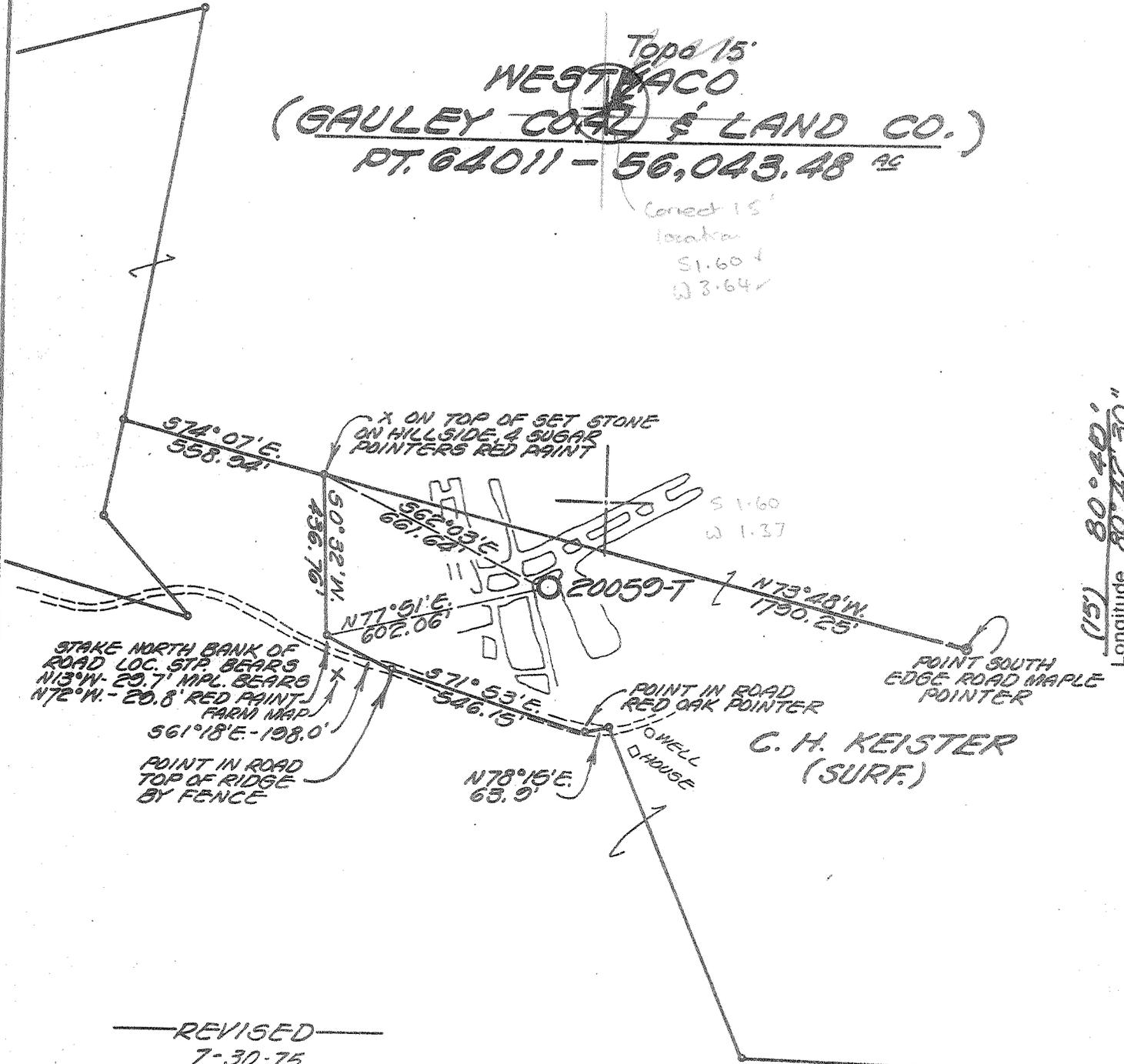


Latitude 38°05'00"

7,150' 10,375'

Top 15'
WESTVACO
(GAULEY COAL & LAND CO.)
PT. 64011 - 56,043.48 AC

Correct 15' location
S 1.60
W 1.37



REVISED
7-30-75

BENCH MARK DESCRIPTION
STANDARD DISC SET IN TOP OF A ROCK 15' LONG AND 2' HIGH 30' NORTH OF & ROAD ABOUT 6' ABOVE ROAD LEVEL STAMPED N-236 ELEV. 3403.29'

COAL NOTE
LEASED TO ISLAND CREEK COAL CO. SUB LEASED TO JOHN B. HARRIS SEWELL SEAM ELEV. 2840' MINED OUT IN VICINITY OF LOCATION.

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.

Signed James B. Foster

Company COLUMBIA GAS TRANS. CORP.
Address BOX 1273 CHARLESTON, W. VA.
Farm (GAULEY COAL LAND CO.) WESTVACO
Lease 64011 Acres 56,043.48
Well Farm No. 1 Ser. No. 20059-T
Elevation - Spirit Level 3462.27'
Quadrangle 1 1/2 QUINWOOD, W. VA.; Richwood 15'
Township or District MEADOW BLUFF
County GREENBRIER
Sec., Lot, Qr. _____ T _____ R _____
Coordinates LAT. 38°03'36" LONG. 80°44'00"
File No. 110-39 Dwg. No. _____
Date JULY 30, 1975 Scale 1" = 400'

WELL LOCATION MAP
STATE OF WEST VIRGINIA
SW (+) Denotes Values Of Well On United States Topographic Maps

GREEN - 22 - P
Scale 15' □ 7 1/2' ■

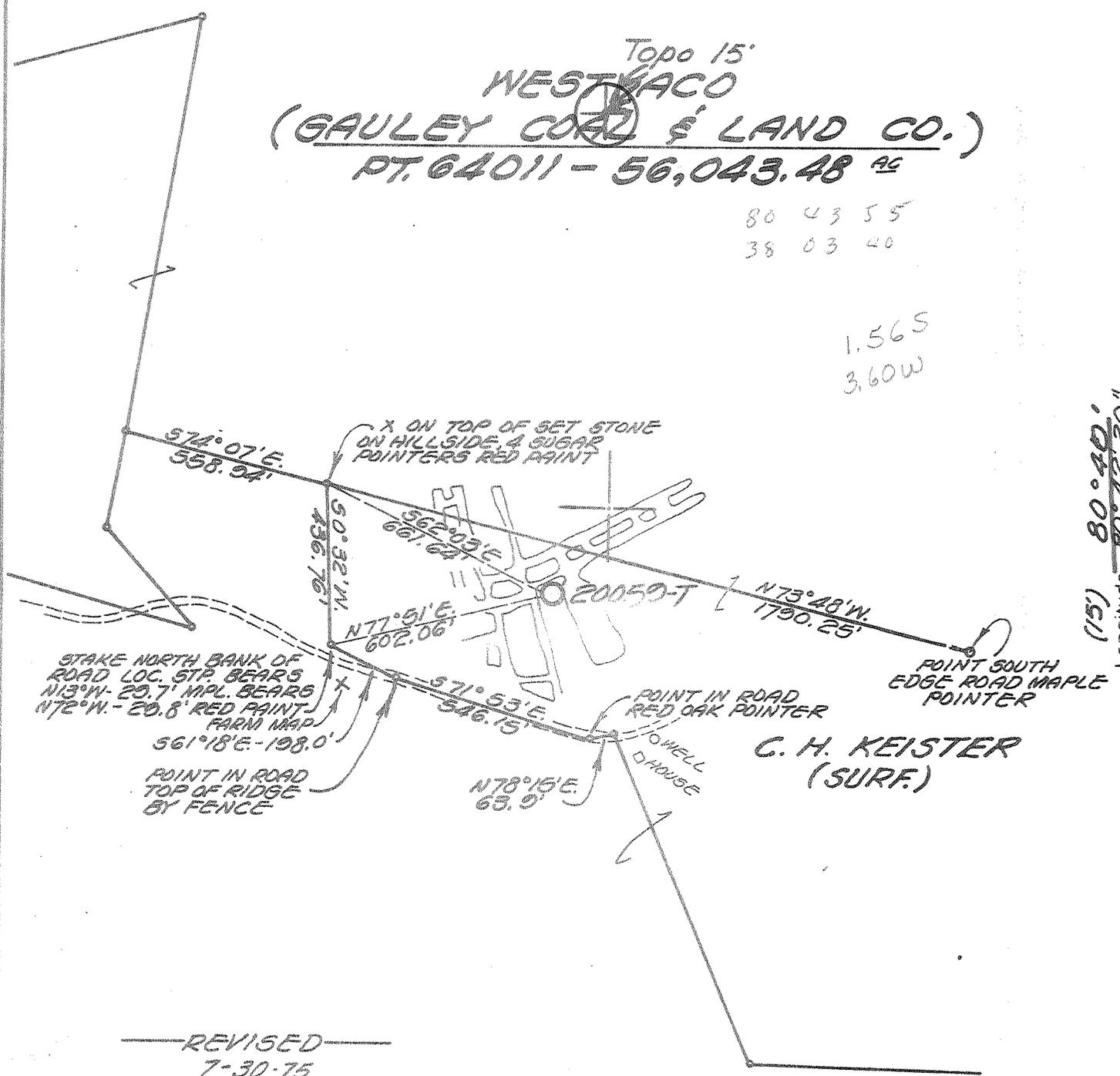
47 - 025 FEB 9 1976

100' Deep Well

Topo 15'
WESTVACO
(GAULEY COAL & LAND CO.)
PT. 64011 - 56,043.48 AC

80 43 55
 38 03 40

1,565
 3,60W



(15) 80°44'
 Longitude 80°42'30"

8,500'

REVISED
 7-30-75

BENCH MARK DESCRIPTION
 STANDARD DISC SET IN TOP OF
 A ROCK 15' LONG AND 2' HIGH 30'
 NORTH OF E ROAD ABOUT 6' ABOVE
 ROAD LEVEL. STAMPED M-236
 ELEV. 3403.29'

COAL NOTE
 LEASED TO ISLAND CREEK COAL CO.
 SUB LEASED TO JOHN B. HARRIS
 SEWELL SEAM ELEV. 2840' ± MINED
 OUT IN VICINITY OF LOCATION.

- 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 [Signature]

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W.VA.
 Farm (GAULEY COAL LAND CO.) WESTVACO
 Lease 64011 Acres 56,043.48
 Well Farm No. 1 Ser. No. 20059-T
 Elevation - Spirit Level 3462.27' SW
 Quadrangle QUINWOOD, W.VA.; RICHWOOD
 Township or District MEADOW BLUFF
 County GREENBRIER
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LAT. 38°03'36" LONG. 80°44'00"
 File No. 110-39 Dwg. No. _____
 Date JULY 30, 1975 Scale 1" = 400'

WELL LOCATION MAP
 STATE OF WEST VIRGINIA

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

GREEN - 22
 Scale 15' 7 1/2'

1-0 Wildcat

Deep well 47-025

OCT 14 1975



RECEIVED

JAN 27 1976

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 7

Quadrangle Quinwood

Permit No. Green-22

Rotary X Oil _____
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal Open (land)

Company Columbia Gas Transmission Corporation
Address P. O. Box 1273, Charleston, WV 25325
Farm Gauley Coal & Land Co. Acres 56,043.48
Location (waters) Anglins Creek
Well No. 20059-T Elev. 3462.27'
District Meadow Bluff County Greenbrier
The surface of tract is owned in fee by _____
Curtis Keister
Address Rainelle, W. Va.
Mineral rights are owned by Westvaco Corp.
Address P.O. Box 577, Rupert, WV
Drilling Commenced October 30, 1975
Drilling Completed January 20, 1976
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20" X 8			
Cond. 13" X 3/8	165	165	Cement to surface
9 5/8	727	727	Cement to surface
8 5/8	2976	2976	Cement to surface
7	8317	2157	Cement to 6940'
5 1/2			
4 1/2	8575	1141	Cement to 8477'
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Chert perforated at 8432 - 8422, 8380 - 8365. These zones acidized with 3000 gal. 15% HCL and 2500 gal. 15% HCL. No results.

Coal was encountered at 595' - 600' Feet 60 Inches
Fresh water 150 Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	220		
Slate			220	273		
Sand			273	595		
Coal			595	600		
Sand			600	667		
Coal			667	669		
Sand			669	703		
Slate			703	790		
Coal			790	793		
Sand			793	841		
Slate			841	916		
Sand			916	1019		
Coal			1019	1023		
Slate			1023	1045		
Coal			1045	1049		
Slate			1049	1250		
Slate			1250	1307		
Sandy Lime			1307	1360		
Red Rock			1360	1510		
Slate			1510	1615		
Red Rock & Slate			1615	1885		
Shaley Sand			1885	2104		
Red Rock & Shale			2104	2286		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Gray Shale			2286	2313		
Upper Maxon			2313	2396		
Sand & Shale			2396	2560		
Sand Lower Maxon			2560	2682		
Sand & Shale			2682	2780		
Little Lime			2780	2800		
Shale			2800	2864		
Big Lime			2864	3296		
Shale			3296	3510		
Weir Sand			3510	3532		
Shale & Silstone			3532	7940		
Marcellus Shale			7940	8324		
Onondaga Lime			8324	8354		
Chert - <i>Huntsville</i>			8354	8445		
Oriskany Sand			8445	8522		
Lime & Dolomite - <i>Held. + Salina</i>			8522	9100		
Dolomite & Anhydrite } <i>Salina</i>			9100	9170		
Limestone & Dolomite }			9170	9351		
• Newberg Sand			9351	9404		
Limestone & Dolomite } <i>McKenzie</i>			9404	9504		
Limestone & Sand }			9504	9626		
• Big Six Sand <i>Keifer</i>			9626	9650		
Shale & Siltstone <i>Rose Hill</i>			9650	9895		
Cacapon Sand			9895	9952		
Clinton Sand - <i>Tuscarora</i>			9952	10,085		
Shale			10,085	10,128		<i>Juniata</i>
			T. D.	10,128		

Set cement plug from 10,128-9850'
 Gel from 9850-9436'
 Spotted cement plug 9436-9318'
 Gel from 9318-8575'
 4 1/2" casing @ 8575
 Cement back into 7' casing
 T.D. inside 4 1/2" - 8477'

Date January 26, 19 76

APPROVED [Signature], Owner
 Director, Exploration & Development

By _____
 (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 2 - 1975

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 October 1, 1975

Surface Owner Curtis H. Keister
Address Rainelle, West Virginia
Mineral Owner Westvaco Corporation
Address P.O. Box 577, Rupert, WV 25984
Lessee
Coal ~~XXXX~~ Island Creek Coal Company
Address Drawer 75, Craigsville, WV
Coal Operator Not Operated
Address _____

Company Columbia Gas Transmission Corporation
Address P.O. Box 1273, Charleston, WV 25325
Farm Gauley Coal & Land Co. Acres 56,043.48
Location (waters) _____
Well No. 20059-T Elevation 3462.27'
District Meadow Bluff County Greenbrier
Quadrangle Quinwood, West Va.

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 2-3-76.

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Mr. Martin Nichols
PH: 548-6993 ADDRESS Clendenin, W. Va.

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 September 2, 1969 by Gauley Coal Land Co. (Westvaco), made to Columbia Gas Trans. Corp. and recorded on the 7th day of October 1969, in Greenbrier County, Book 39 Page 32

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, W. Va. 26505
AC 304-296-4461

Address
of
Well Operator

Very truly yours, COLUMBIA GAS TRANSMISSION CORP.
(Sign Name) [Signature]
Well Operator Vice President

Post Office 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.

Green-22 PERMIT NUMBER

47-025

BLANKET BOND

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 W. H. Chapman
 ADDRESS _____ ADDRESS P.O. Box 610, Clendenin, WV 25045
 TELEPHONE _____ TELEPHONE (304)965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: 10,050' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Clinton
 TYPE OF WELL: OIL _____ GAS X 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 - X8	150'		
13 - X8 3/8	650'		
9 - 5/8	2,900'		
8 - 5/8			
7	8,350'		
5 1/2			
4 1/2	10,050'		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS 600-650
 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