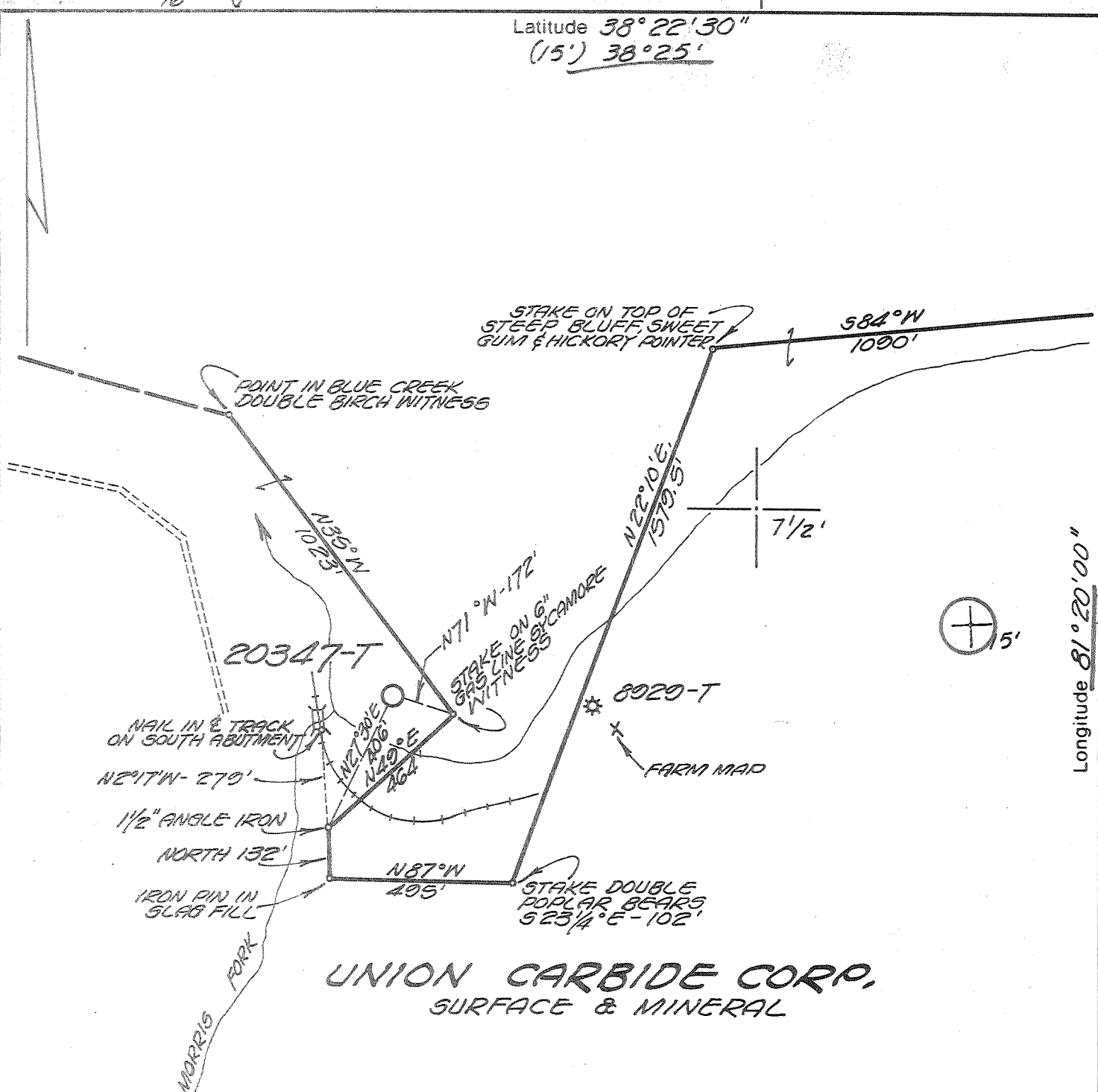


4800'

Latitude $38^{\circ}22'30''$
(15') $38^{\circ}25'$

6200'

Longitude $81^{\circ}20'00''$



UNION CARBIDE CORP.
SURFACE & MINERAL

BENCH MARK

0.6 MILE S.E. OF SANDERSON P.O.
R.R. TRESTLE OVER CREEK. TOP
STONE ABUTMENT POINT WHERE
STANDARD DISC WAS LOCATED
(NOW GONE) REFERENCE MARK
CHISELED "D" ON ABUTMENT.
ELEVATION 733.60'

I, the undersigned, hereby certify that this map is correct to the best of my
New Location knowledge and belief and shows all the information required by the rules and
Storage regulations of the oil and gas section of the mining laws of WEST VIRGINIA
Drill Deeper Minimum degree of accuracy is one part in 200
Abandonment 10/5/76 **LICENSED LAND**
Re-Drill/Fracture **SURVEYOR # 102** Signed [Signature]
BOX 1273 CHARLESTON, W.VA.

Company COLUMBIA GAS TRANS. CORP.
Address BOX 1273 CHARLESTON, W.VA.
Farm UNION CARBIDE CORP.
Lease PT. 4881 Acres 29768
Well Farm No. 41 Ser. No. 20347-T
Elevation - Spirit Level 736.77'
Quadrangle WAMMOTH; Clendenin 15'
Township or District ELK
County KANAWHA
Sec., Lot, Qr. T R
Coordinates LONG. 81°21'00" LAT. 38°21'01"
File No. 76-59 Dwg. No.
Date 4-6-76 Scale 1" = 400'

WELL LOCATION MAP

STATE OF WEST VIRGINIA

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

KAN-2755-P

Scale 15' 7 1/2'

47-039

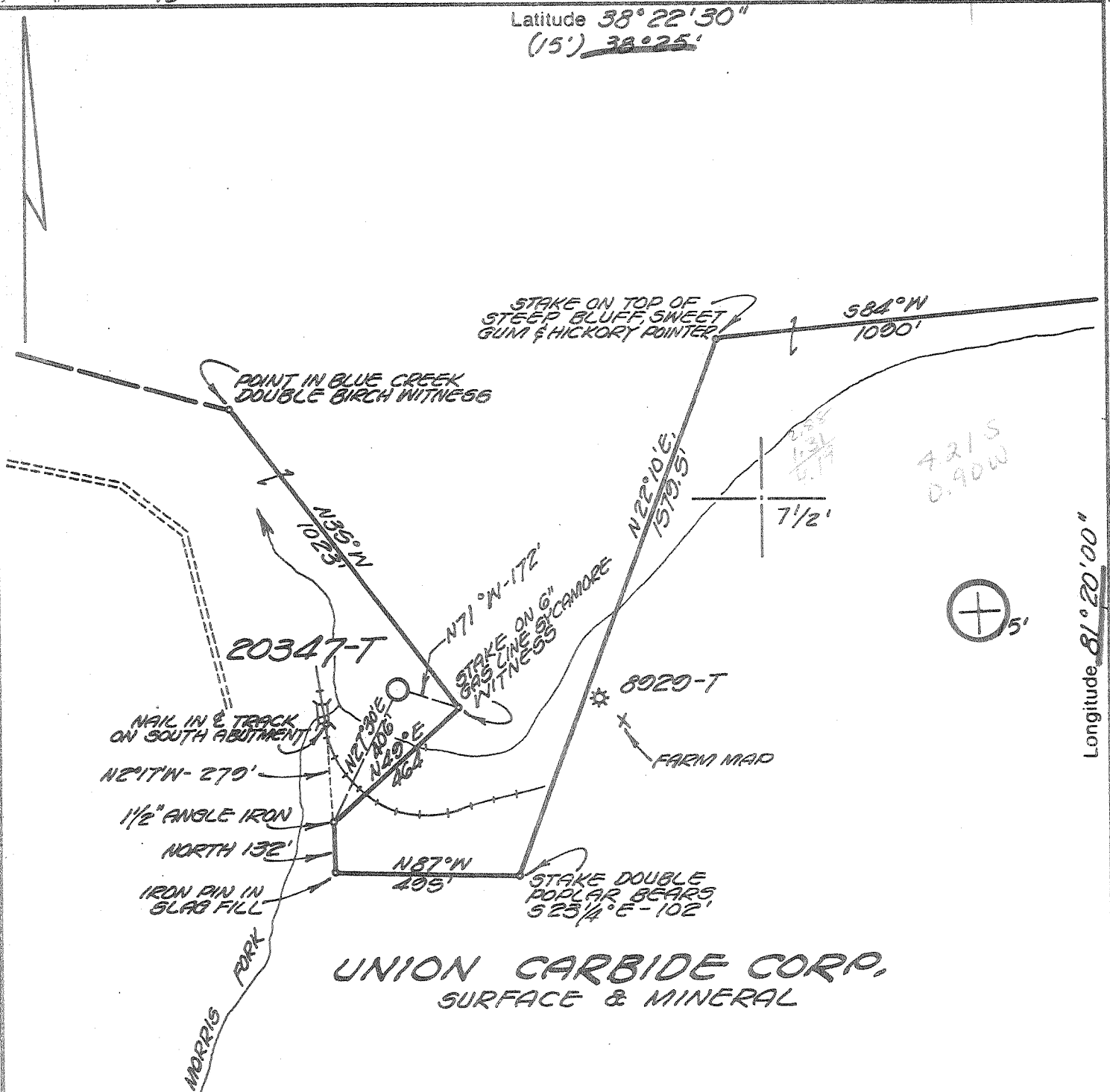
OCT 22 1976

DEEP WELL 5-0 Indian Creek pool (358)

Latitude $38^{\circ}22'30''$
(15') $38^{\circ}25'$

6300'

Longitude $81^{\circ}20'00''$



UNION CARBIDE CORP.
SURFACE & MINERAL

BENCH MARK
0.6 MILE S.E. OF SANDERSON P.O.
R.R. TRESTLE OVER CREEK. TOP
STONE ABUTMENT POINT WHERE
STANDARD DISC WAS LOCATED
(NOW GONE) REFERENCE MARK
CHISELED "D" ON ABUTMENT.
ELEVATION 733.60'

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
LICENSED LAND SURVEYOR #102
Signed *Harvey Foster*
BOX 1273 CHARLESTON, W.VA.

Company COLUMBIA GAS TRANS. CORP.
Address BOX 1273 CHARLESTON, W.VA.
Farm UNION CARBIDE CORP.
Lease PT. 4881 Acres 29768
Well Farm No. 41 Ser. No. 20347-T
Elevation - Spirit Level 736.77'
Quadrangle MAMMOTH 7 1/2; C. lendenia 15'
Township or District ELK
County KANAWHA
Sec., Lot, Qr. _____ T _____ R _____
Coordinates LONG. 81°21'00" LAT. 38°21'01"
File No. 76-59 Dwg. No. _____
Date 4-6-76 Scale 1" = 400'

WELL LOCATION MAP
STATE OF WEST VIRGINIA
(+) Denotes Values Of Well On United States Topographic Maps
KAN-2755
Scale 15' 7 1/2'

47-039

SEP 15 1976

DEEP WELL



RECEIVED

OCT 7 1976

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Mammoth

Permit No. KAN-2755

Company Columbia Gas Transmission Corp.
Address P.O. Box 1273, Charleston, WV 25325
Farm Union Carbide Corp. Acres 29,768
Location (waters) Blue Creek
Well No. 20347-T Elev 736.77'
District Elk County Kanawha
The surface of tract is owned in fee by:
Union Carbide Corporation
Address P.O. Box 8004, So. Charleston, WV 25303
Mineral rights are owned by Same as above
Address _____
Drilling Commenced 9-10-76
Drilling Completed 10-4-76
Initial open flow 0 cu. ft. bbls.
Final production 0 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			
20-3/8	30'	30'	Cement to surface
13-3/8 3/8	700'	700'	Cement to surface
9 5/8	2040'	2040'	Cement to surface
8 5/8			
7	5350'	1230'	
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Plugged and abandoned 10-6-76.

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface			0	50		
Sand & Shale			50	690		
Salt Sand			690	1070		
Sand			1070	1422		
Big Lime			1422	1554		
Sand			1554	1602		
Weir			1602	1731		
Sand			1731	1982		
Berea			1982	2053		
Sand & Shale			2053	5133		
Onondaga			5133	5252		
Oriskany			5252	5279		
Helderburg			5279	6051		
Newburg			6051	6091		
Salina			6091	6340		
Keefer			6340	6370		
Rose Hill			6370	6792		
Clinton Sand			6792	6856		
Clinton Shale			6856	6919		
				6919		

(over)

* Indicates Electric Log tops in the remarks section.

0, 0, no pay, 5'

see 1187 from chlester



RECEIVED

AUG 31 1976

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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 August 26, 1976

Surface Owner Union Carbide Corp./Realty Div.

Company Columbia Gas Transmission Corporation

Address P.O. Box 8004, South Charleston, WV

Address P.O. Box 1273, Charleston, WV 25325

Mineral Owner Same as above 25303

Farm Union Carbide Corp. Acres 29,768

Address _____

Location (waters) Blue Creek

Coal Owner Same as above

Well No. 20347-T Elevation 736.77'

Address _____

District Elk County Kanawha

Coal Operator Same as above

Quadrangle Mammoth

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 12-31-76.

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 April 24 1908 by Blue Creek Coal & Land Co. made to Hope Natural Gas Co. and recorded on the 23rd day of June 1909 in Kanawha County, Book 17 Page 154

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, COLUMBIA GAS TRANSMISSION CORP.
(Sign Name) [Signature]
Well Operator
Director, Exploration & Development
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.

KAN-2755 PERMIT NUMBER

47-039

"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."

Signed by _____

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. John M. Foster
 ADDRESS _____ ADDRESS P.O. Box 1273, Charleston, WV25325
 TELEPHONE _____ TELEPHONE (304) 346-0951
 ESTIMATED DEPTH OF COMPLETED WELL: 6875' 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 - XXX	30'		
13 - XXX 3/8	700'		
9 - 5/8	2040'		
8 - 5/8			
7	5350'		
5 1/2			
4 1/2	6875'		
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