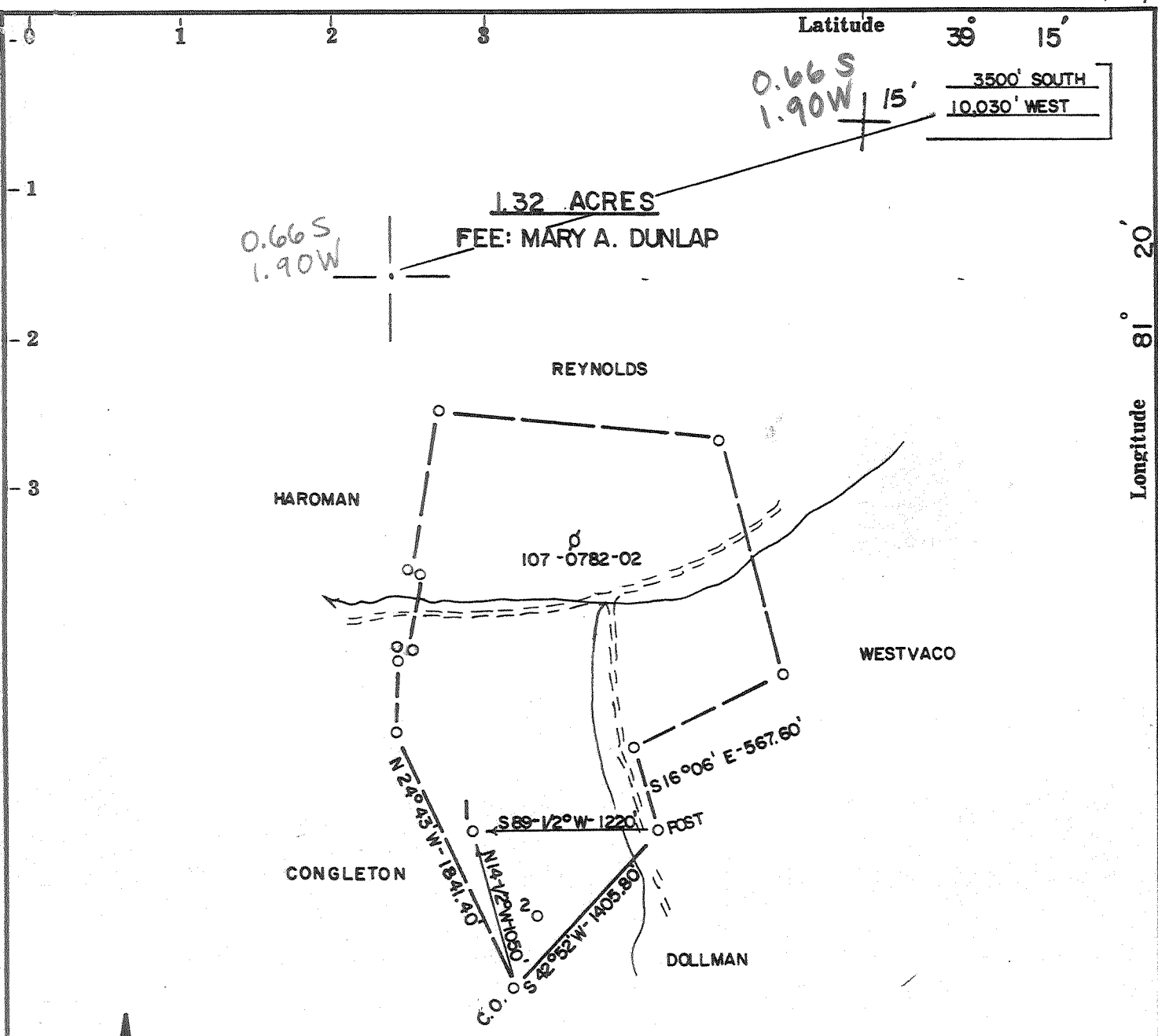


5/29/30



0.66 S
1.90 W

3500' SOUTH
10,030' WEST

1.32 ACRES
FEE: MARY A. DUNLAP

0.66 S
1.90 W

REYNOLDS

HAROMAN

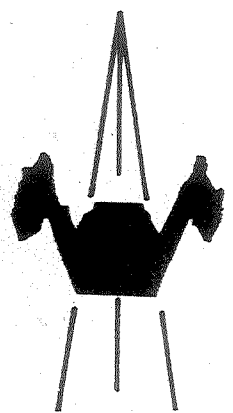
107-0782-02

WESTVACO

CONGLETON

DOLLMAN

N 24° 43' W - 184.40'
S 89° 12' W - 1220'
S 16° 06' E - 567.60'
N 14° 24' W - 1050.00'
S 22° 52' W - 1403.80'



ACCURACY: 1' / 200'

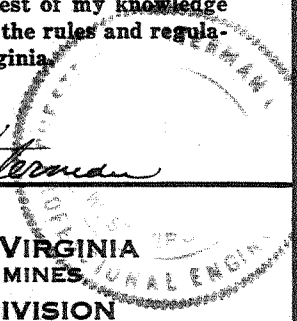
Source of Elevation B.M. PLEASANT VALLEY CHURCH (7.33')

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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- New Location OIL
- Drill Deeper
- Abandonment
- Fracture
- Redrill

BEREA 2500'

Chet Waterman



Company DUNLAP OIL & GAS COMPANY
 Address HUNTINGTON, WV
 Farm M.A. DUNLAP
 Tract _____ Acres 1.32 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 900'
 Quadrangle PETROLEUM (7.5'), ELIZABETH 15'
 County WOOD District WALKER
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 79-159 Drawing No. _____
 Date 3/14/79 Scale 1" = 1000'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

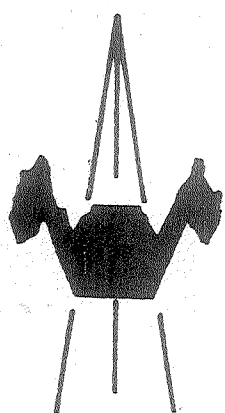
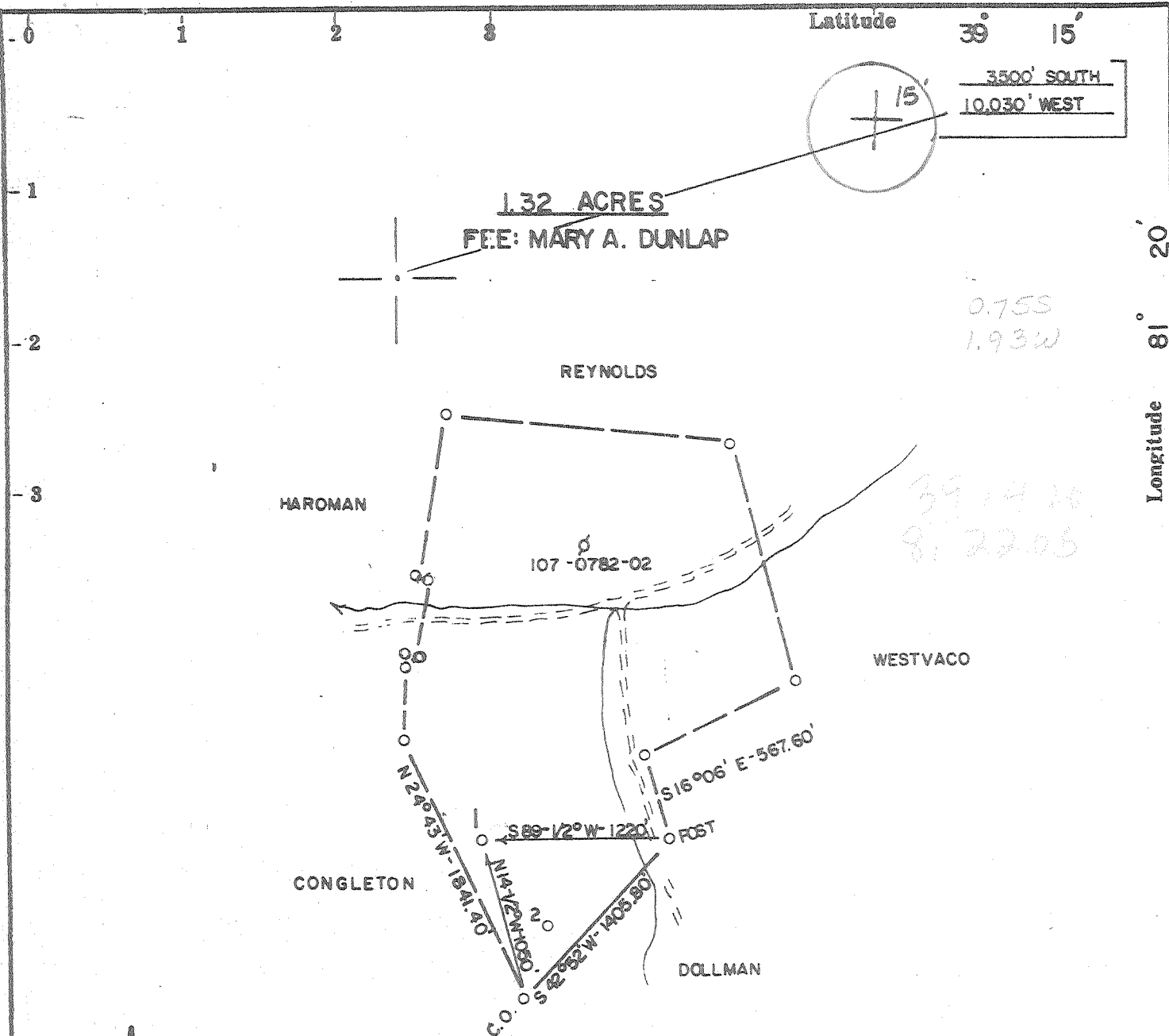
WELL LOCATION MAP
FILE NO. 47-107-0892

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

Berea & Gordon 3000'

2/19/30



ACCURACY: 1' / 200'

Source of Elevation B.M. PLEASANT VALLEY CHURCH (7.33')

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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- New Location OIL
- Drill Deeper
- Abandonment
- Fracture
- Redrill

BEREA 2500'

Chet Waterman

Company	<u>DUNLAP OIL & GAS COMPANY</u>		
Address	<u>HUNTINGTON, WV</u>		
Farm	<u>M.A. DUNLAP</u>		
Tract	Acres <u>1.32</u>	Lease No.	
Well (Farm) No.	<u>1</u>	Serial No.	
Elevation (Spirit Level)	<u>900'</u> <i>NC</i>		
Quadrangle	<u>PETROLEUM (7.5'), ELIZABETH 15'</u>		
County	<u>WOOD</u>	District	<u>WALKER</u>
Engineer	<u>CHET WATERMAN</u>		
Engineer's Registration No.	<u>3788</u>		
File No.	<u>79-159</u>	Drawing No.	
Date	<u>3/14/79</u>	Scale	<u>1" = 1000'</u>

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES,
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. 47-107-0892

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

JUN 14 1979

Berea & Gordon 3000' 6-6 (Hendershot-Ogden (72))



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 19

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

Quadrangle Pertroleum
 Permit No. 47-107-0892

Company Dunlap Oil and Gas
 Address P.O. Box 8129-Huntington, W. Va.
 Farm Mary A. Dunlap Acres 132
 Location (waters) _____
 Well No. -1- Elev. 900'
 District Walker County Wood
 The surface of tract is owned in fee by Mary A. Dunlap
 Address Route #2-Walker, W. Va.
 Mineral rights are owned by Mary A. Dunlap
 Address Rt. #2-Walker, W. Va.
 Drilling Commenced 6-7-79
 Drilling Completed 6-11-79
 Initial open flow 10,000 cu. ft. 1 bbls.
 Final production 33,000 cu. ft. per day 20 bbls.
 Well open 24 hrs. before test 700 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	250'	250'	To Surface
7			
5 1/2			
4 1/2		2729'	150 Bags
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

4.5 Bbls. Water and 28,000# 20/40 Sand

20B0 + 33MCF

Coal was encountered at None Feet _____ Inches _____
 Fresh water Yes Feet 80' Salt Water Yes Feet 80'
 Producing Sand Berea/Gorden Depth 2318-231' - 2682-2708'
Ben. Gorden

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Top Soil			-0-	-25-		
Rock			25	80		
Sand			80	100		
Rock			100	250		
Slate			250	340		
Sand			340	370		
Slate			370	460		
Rock			460	560		
Slate			560	570		
Rock			570	710		
Slate			710	860		
Slate			860	960		
Sand			960	980		
Slate			980	1090		
Sand			1090	1160		
Slate			1160	1210		
Rock			1210	1270		
Line			1270	1360		
Sand			1360	1430		
Rock			1430	1510		
Slate			1510	1590		
Sand			1590	1620		
Rock			1620	1730		
Slate			1730	1780		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet ¹⁹	Bottom Feet	Oil, Gas or Water	* Remarks
Lime			1780	1840		
Sand			1840	1910		
Slate			1910	2318		
Sand			2318	2323	Terra	
Slate			2323	2698		
Sand			2698	2702	Gordon ✓	
Slate			2708	2722		
T.D.			2799			
Set Casing on Gordon Sand and will Frac. at later date.						

Date 7-16 19 79

APPROVED Dunlap Oil and Gas Owner

By *Russell Clark*
Partner (Date)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

MAY 29 1979

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION *Py*

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

DATE 5-29-79
Company Dunlap Oil and Gas Company
Address P.O. Box 8129-Huntington, W.Va.
Farm Dunlap Acres 132
Location (waters) STILLWELL CK,
Well No. -1- Elevation 900'
District Walker County Wood
Quadrangle Petroleum

Surface Owner Mary A. Dunlap
Address Walker, W.Va.
Mineral Owner Mary A. Dunlap
Address Walker, W.Va.
Coal Owner _____
Address _____
Coal Operator _____
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
for drilling. This permit shall expire if
operations have not commenced by 1-31-80.

INSPECTOR
TO BE NOTIFIED Paul Goodknight
ADDRESS Smithville, W.Va.
PHONE 477-3660

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 March 8th. 19 78 by Mary A. Dunlap made to North Hills Investment Co. and recorded on the 8th. day of March 19 78 in Wood County, Book 701 Page 217

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, Dunlap Oil and Gas Co.
(Sign Name) BY: T. Paul Chubb Partner
-Well Operator
P.O. Box 8129
Street
Huntington, W.Va. 25705
City or Town

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.

47-107-0892 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."

Signed by _____

BOND DRILL

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 Clint H. Hurt Associates, Inc. NAME Robert Weeks
 ADDRESS Elkview, W.Va. ADDRESS P.O. Box 8129-Huntington, W.Va. 25701
 TELEPHONE 344-2401 TELEPHONE 522-2553
 ESTIMATED DEPTH OF COMPLETED WELL: 3000 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea & Gordon
 TYPE OF WELL: OIL X 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 - 16	20'	20'	
13 - 10			
9 - 5/8			
8 - 5/8	250'	250'	To Surface
7			
5 1/2			
4 1/2	3000'	3000'	100 Bags
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 65' FEET SALT WATER 1925' FEET
 APPROXIMATE COAL DEPTHS None
 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