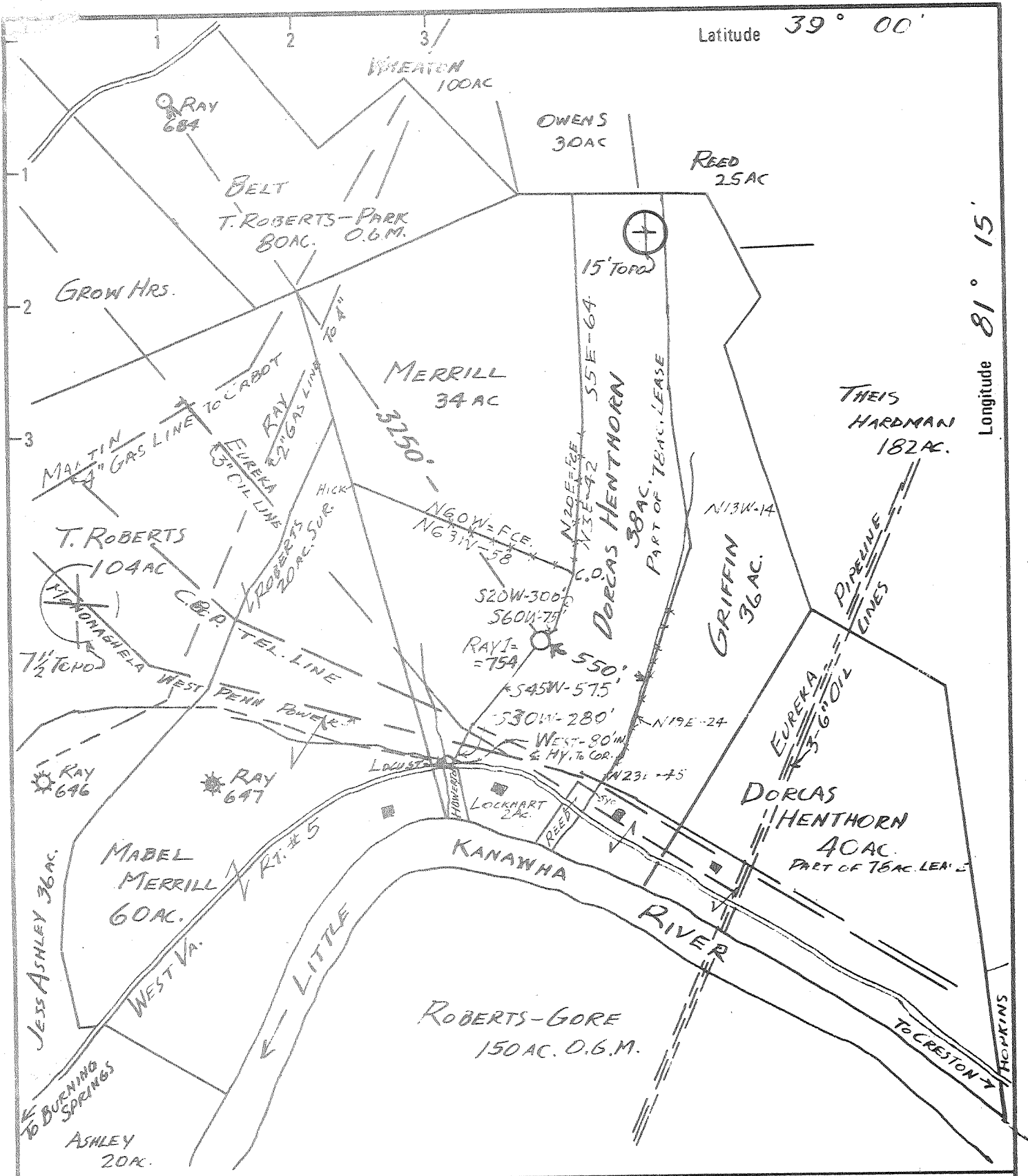


Latitude 39° 00'

Longitude 81° 15'



Part. Plug 5/4/77
 New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 in 200
 Source of Elevation R.D. 6 FISHPOT OFF RT. 5 = 780 FT.
 "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."

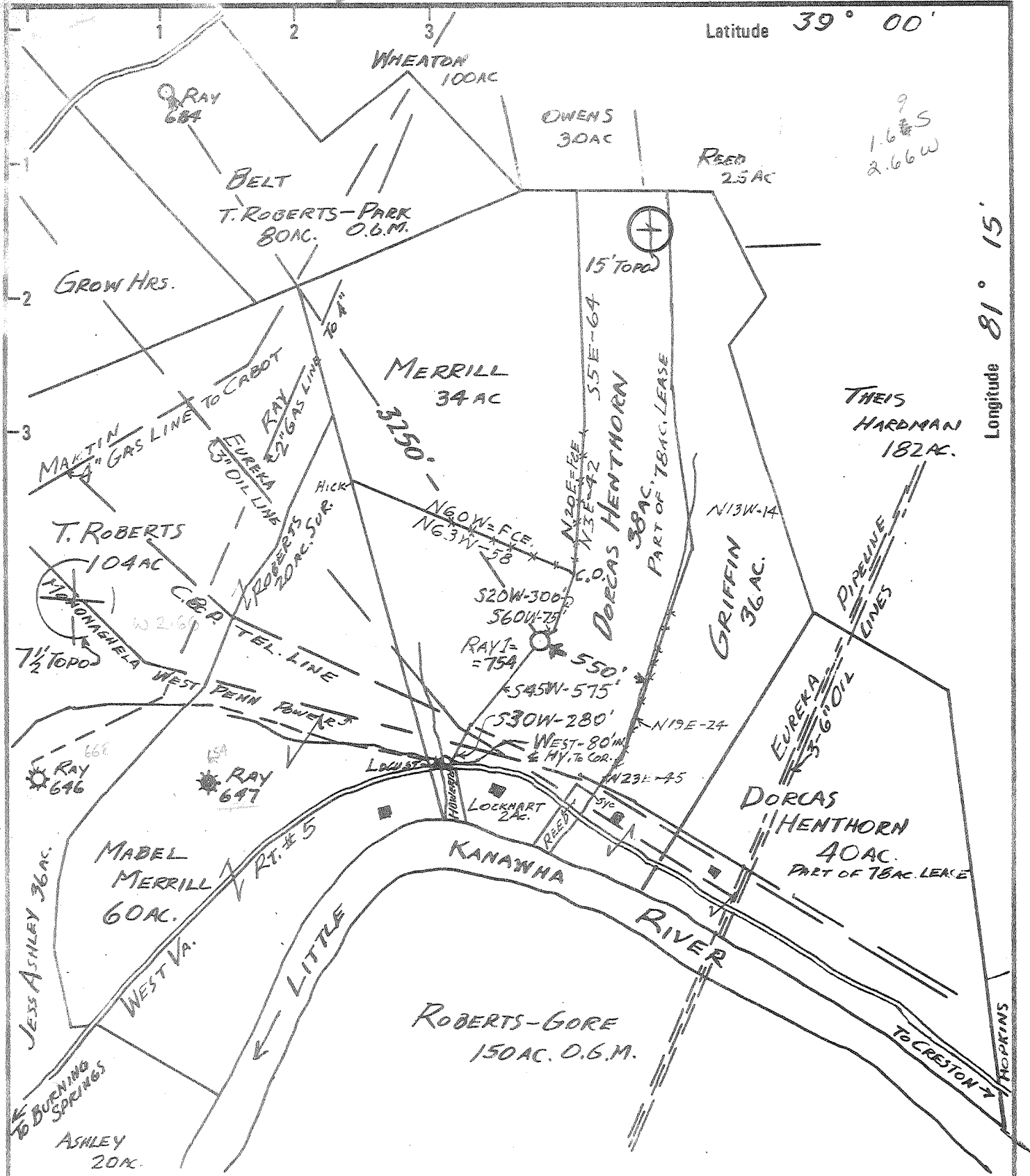
Company RAY RESOURCES DIV. F. D. O. C.
 Address COMMERCE SQ. CHARLESTON, W. VA.
 Farm DORCAS HENTHORN
 Tract 38A Acres 78A Lease No. _____
 Well (Farm) No. ONE Serial No. 754
 Elevation (Spirit Level) 902 FT.
 Quadrangle SPENCER NE
 County WIRT District BURNING SPRING
 Engineer Glen W. Roberts
 Engineer's Registration No. 860
 File No. 6-- Drawing No. _____
 Date 3-24-77 Scale 1 IN = 660 FT.

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

WELL LOCATION MAP
 FILE NO. WIR-725-PP

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

47-105 MAY 18 1977



Latitude 39° 00'

Longitude 81° 15'

1.66S
2.66W

Minimum Error of Closure 1 in 200

Source of Elevation R.D. FISH POT OFF RT. 5 = 780 FT.

- New Location
- Drill Deeper
- Abandonment

"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."

Company RAY RESOURCES DIV. F.D.O.C.
 Address COMMERCE SQ. CHARLESTON, W. VA.
 Farm DORCAS HENTHORN
 Tract 3BA Acres 78A Lease No. _____
 Well (Farm) No. ONE Serial No. 754
 Elevation (Spirit Level) 902 FT.
 Quadrangle SPENCER NE
 County WIRT District BURNING SPRINGS
 Engineer Islen W. Roberts
 Engineer's Registration No. 860
 File No. _____ Drawing No. _____
 Date 3-24-77 Scale 1 in = 660 FT.

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

WELL LOCATION MAP
 FILE NO. WIR-725

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

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

47-105 APR 7 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

Quadrangle Spencer
Permit No. Wirt-725

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

RAY RESOURCES, DIVISION OF
Company FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Chas., WV 25301
Farm Henthorn Unit Acres 78
Location (waters) Little Kanawha
Well No. 754 Elev. 902'
District Burning Springs County Wirt
The surface of tract is owned in fee by Dorcas Henthorn
Address Parkersburg, W. Va.
Mineral rights are owned by Dorcas Henthorn
Address Parkersburg, W. Va.
Drilling Commenced 4-7-77
Drilling Completed 4-24-77
Initial open flow SHOW cu. ft. bbls.
Final production 494M cu. ft. per day bbls.
Well open hrs. before test 1250 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10' 13 3/8	31'	31'	20 Sks.
9 5/8	1627'	1627'	450 Sks.
8 5/8			
7	6950'	6950'	
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

spot Well 12,000 lbs. 80% Hercules Gas Well Gelatin

494 MCF

Coal was encountered at Feet Inches
Fresh water Feet Salt Water Feet
Producing Sand Devonian Shale Depth ~~435~~ ~~300~~ 3300 - 4500

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	255		
Shale			255	1000		
Sand & Shale			1000	1240		
Maxton			1240	1370		
Big Lime			1370	1415		
Injun			1415	1465		
Sand			1465	1570		
Lime & Shale			1570	1635		
Shale			1635	5620		
Lime <u>Onondaga</u>			5620	5812		
Sand <u>Oriskany</u>			5812	5910		
Lime			5910	6215		
Shale			6215			

TD MCKENZIE

7929

7929
4500
3429
Exploratory footage

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE March 25, 1977

Surface Owner Dorcas Heathorn
Address Parkersburg, W. Va.
Mineral Owner Dorcas Heathorn
Address Parkersburg, W. Va.
Coal Owner NONE
Address _____
Coal Operator NONE
Address _____

Company RAY RESOURCES, DIVISION OF FLYING DIAMOND OIL CORPORATION
Address 630 Commerce Sq., Chas., WV 25301
Farm Heathorn Unit Acres 78
Location (waters) Little Kanawha
Well No. 754 Elevation 902'
District Burning Springs County Wirt
Quadrangle Spencer

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 7-25-77.

INSPECTOR TO BE NOTIFIED K. Paul Goodnight
ADDRESS Smithville, W. Va. 26178
PHONE 477-2455

Robert L. [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 Sept. 7, 1976 by Consolidated Gas Supply Corp. Ray Resources, Div. of F.D.O.C. made to _____ and recorded on the _____ day of _____, 19____, in _____ County, Book _____ Page _____

XXX 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,
(Sign Name) Ray C. Ray
Well Operator
630 Commerce Square
Street
Charleston,
City or Town
West Virginia 25301
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.

WIRT- 725
47-105 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12b and will carry out the specified requirements."

Signed by Ray C. Ray

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XXX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Ray Resources NAME Bill Endicott
 ADDRESS Charleston, W. Va. ADDRESS Box 235, Culloden, W. Va.
 TELEPHONE 344-6393 TELEPHONE 743-9067
 ESTIMATED DEPTH OF COMPLETED WELL: 6902' ROTARY XXX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Newburg
 TYPE OF WELL: OIL _____ GAS XX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	150'	150'	To surf.
9 - 5/8	2100'	2100'	To surf.
8 - 5/8			
7	6852'	6852'	150 Sks.
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100' 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