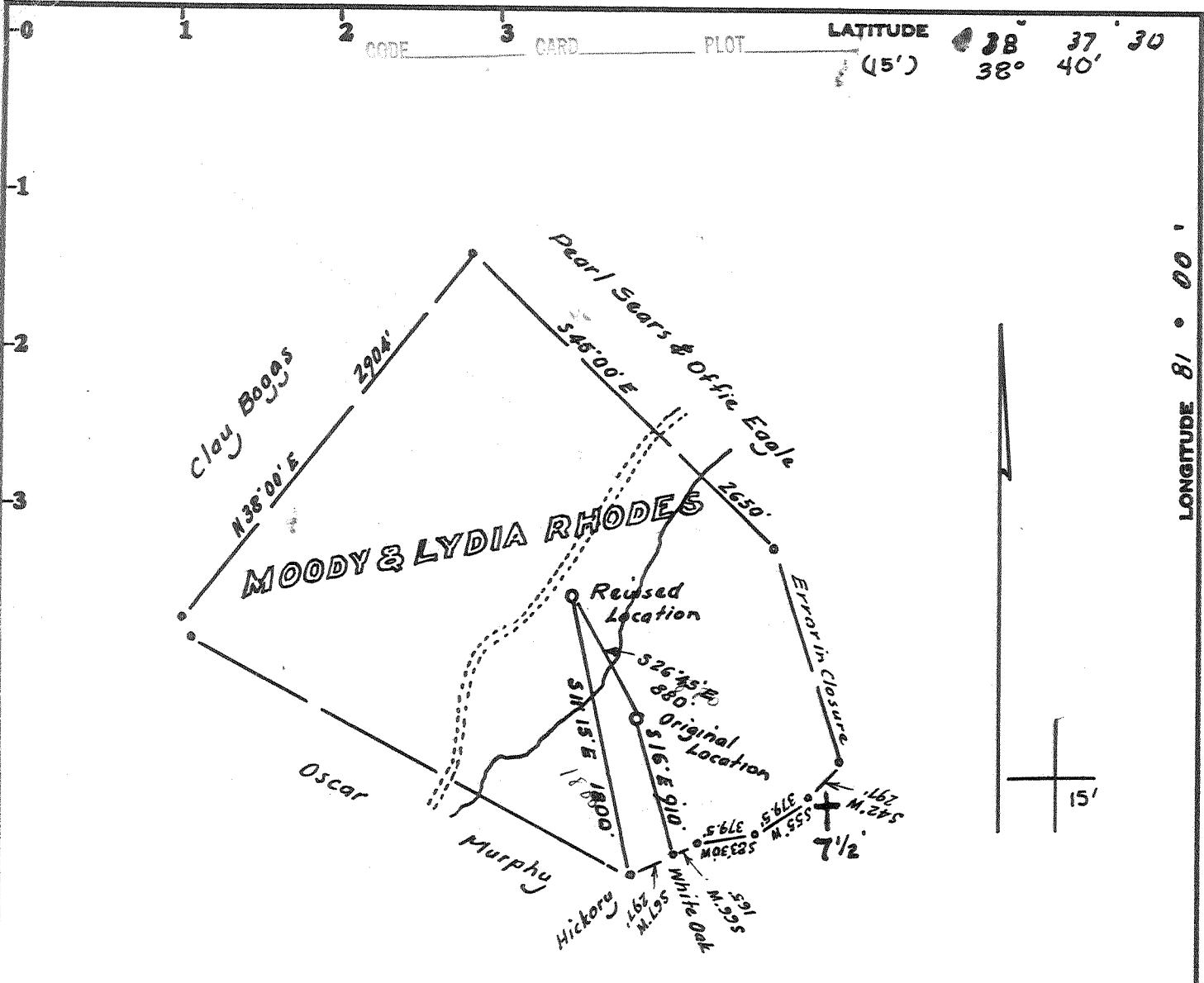


6-54

CODE 1 2 3 CARD PLOT LATITUDE 38° 37' 30" (15') 38° 40'



**OWNERSHIP**

No coal mined in the vicinity  
 Surface: Moody & Lydia Rhodes  
 Minerals: - " " " et al

**REVISED LOCATION**

Minimum Error of Closure 1 in 2500'  
 Source of Elevation Well No. 1, C.A. Boogstr., Ray Resources = 851'

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....  10/1/85

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.

Signed: [Signature]  
 Squares: N S E W

Company: Continental Reserves Oil Company  
 Address: P.O. Box 117- Bridgeport, WVa. 26330  
 Surface: Lydia & Moody Rhodes #1  
 Farm: \_\_\_\_\_  
 Tract: \_\_\_\_\_ Acres 125 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 917  
 Quadrangle Lyudale 7 1/2 Otter 15'  
 County Clay District Otter  
 Engineer: [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Dec. 29, 1979 Scale 1" = 1000'

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

**WELL LOCATION MAP**

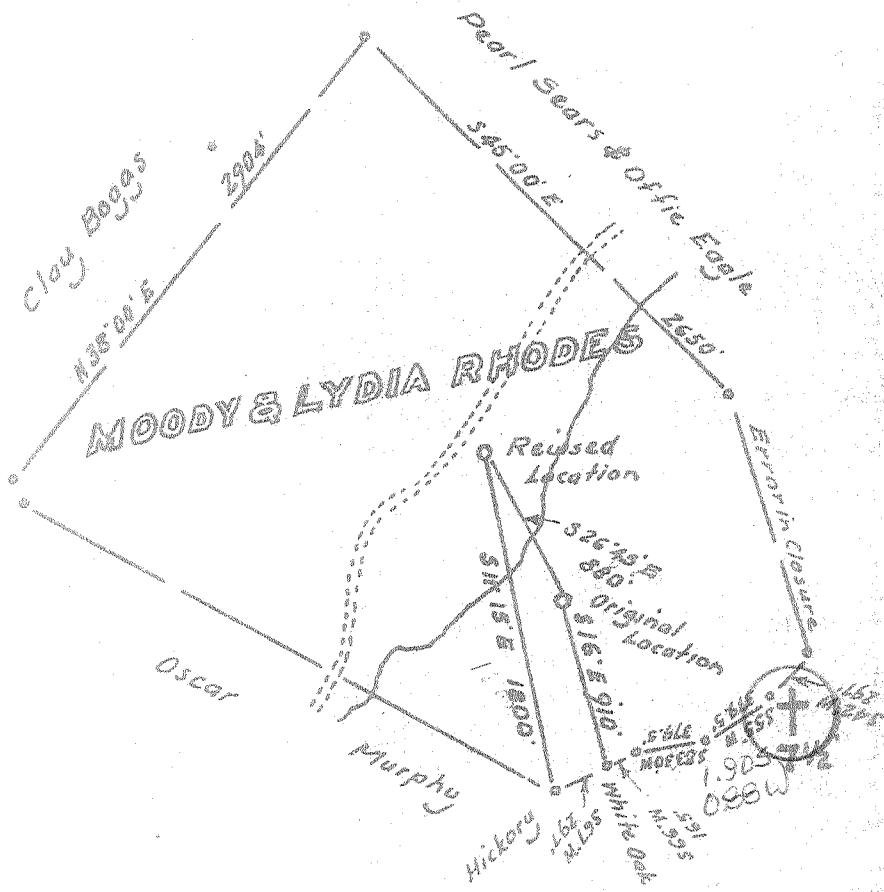
FILE NO. 47-015-1712-P  
Revised.

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

1650 0-1/4 DEEP WELL

LATITUDE 38° 37' 30" (15') 38° 40'

LONGITUDE 81° 00'



**OWNERSHIP**

No coal mined in the vicinity  
 Surface: Moody & Lydia Rhodes  
 Minerals: - " " " et al

**REVISED LOCATION**

Minimum Error of Closure 1 in 2500'

Source of Elevation Well No. 1, C.A. Boggs Jr., Ray Resources - 85'

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.

Signed: [Signature]

Map No. \_\_\_\_\_ Squares: N S E W

- Fracture
- New Location
- Drill Deeper
- Abandonment

Company Mart Development Co.  
 Address Route 8, Route 336AA, Fairmont W.Va.  
 Farm Moody & Lydia Rhodes  
 Tract \_\_\_\_\_ Acres 123 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 917  
 Quadrangle Musdale 7 1/2' Otter 15' EC  
 County Clay District Otter  
 Engineer [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Dec. 29, 1979 Scale 1" = 1000'

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

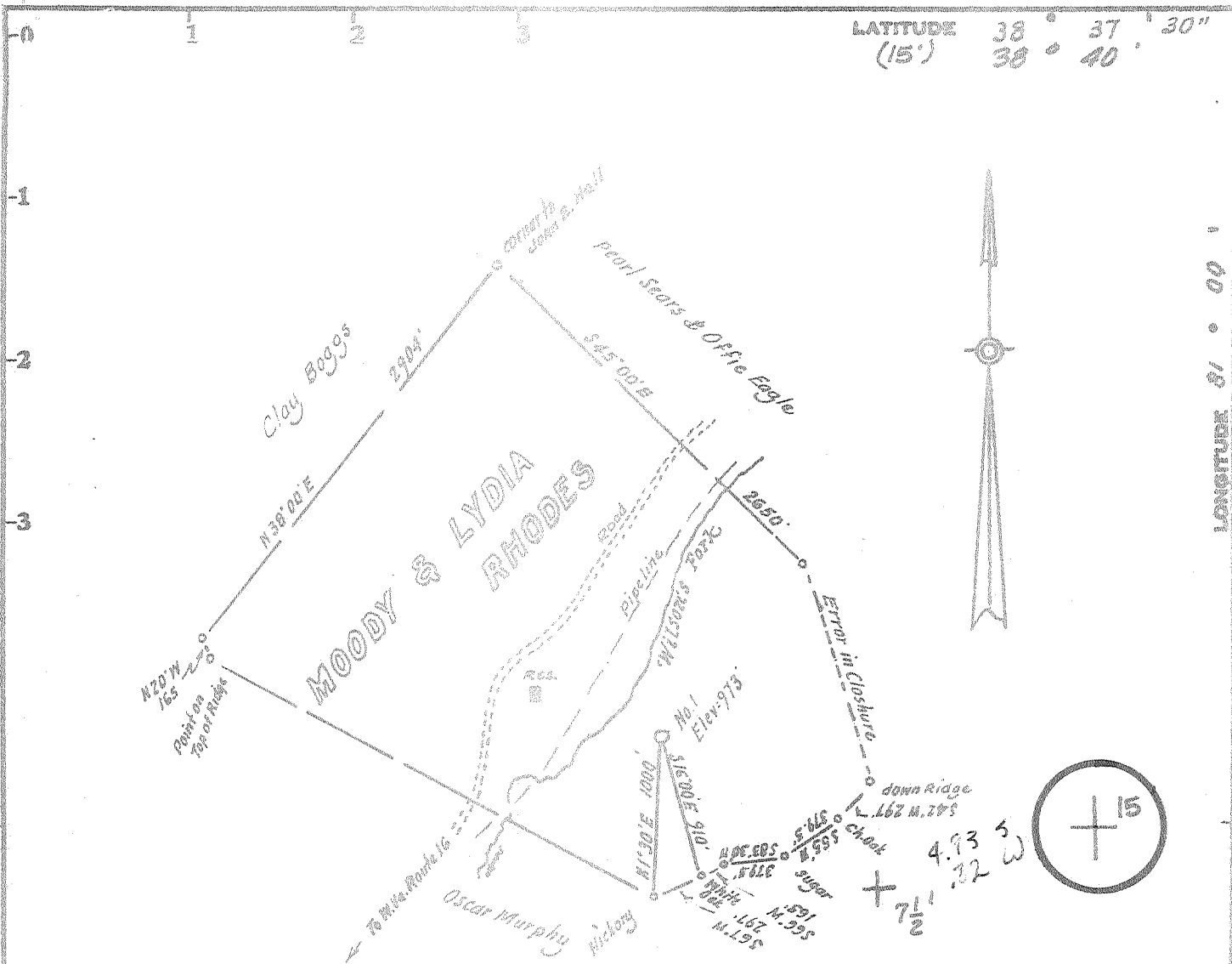
**WELL LOCATION MAP**

FILE NO. 47-015-1712

Revised.

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

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



**OWNERSHIP**

No coal mined in this vicinity  
Surface is owned by Moody & Lydia Rhodes.  
Minerals " " " " " and others.

Minimum Error of Closure Lin 2500

Source of Elevation Well No. 1, C.A. Bagg's tract, Ray Resources - 851'

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.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: W. S. [Signature]  
Squares: N S E W

Map No.

Company MERT DEVELOPMENT, INC.  
 Address Route 8, Box 336AA - Fairmont, W. Va. 26534  
 Farm Moody & Lydia Rhodes  
 Tract \_\_\_\_\_ Acres 125 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 973  
 Quadrangle Wydale 7 1/2 Offer 15' EC  
 County Clay District Other  
 Engineer W. S. [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Dec. 29, 1979 Scale 1" = 1000'

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

**WELL LOCATION MAP**

FILE NO. 47-015-1712

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000 latitude and longitude lines being represented by border lines as shown.

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



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OCT 22 1980

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

**WELL RECORD**

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

Quadrangle Ivydale 7 1/2'

MAY 23 1983

Permit No. 47-015-1712

Company MERT Development, Inc.  
Address Rt. 8 Box 336-AA Fairmont, WV  
Farm Moody & Lydia Rhodes Acres 125  
Location (waters) Wilson Fork  
Well No. 1 Elev. 917  
District Otter County Clay  
The surface of tract is owned in fee by Moody & Lydia Rhodes  
Address Ripley, WV  
Mineral rights are owned by Moody & Lydia Rhodes et. al Address as above  
Drilling Commenced 3-19-80  
Drilling Completed 3-30-80  
Initial open flow est. 50 m cu. ft. -0- bbls.  
Final production 1,391 cu. ft. per day -0- bbls.  
Well open 4 hrs. before test 1850# 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	48'	48'	60 Sx
9 5/8	2032'	2032'	190 Sx
8 5/8			
7	6162	6162	195 Sx
5 1/2			
4 1/2			
3			
2	6100.64	6100.64	
Liners Used			

Well treatment details:

Attach copy of cementing record.

4-22-80 Perf. Oriskany openhole 6240-44, 8 shots; 6207-27, 80 shots HSC  
frac Oriskany 30,000# 80/100 & 60,000# 20/40 w 650 bbl cross-link gal. ISIP=3200psig  
4-22-80 Perf. Chert 7" csg. 6034-37, 8 shots & 6062-76, 22 shots; frac Chert 30,000#  
80/100 & 30,000# 20/40 to screenout @ 927 bbls, screened with 30,000# 20/40 in formation  
left 30,000# 20/40 in 7" @ 4500 psig at screenout. 4-26-80 MI completion rig; reverse  
circulate sand; 4-29-80 drilled out plug & ran tubing

Coal was encountered at none reported Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 20 & 72 Feet \_\_\_\_\_ Salt Water none Feet \_\_\_\_\_  
Producing Sand Chert & Oriskany Depth see above

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
st Salt Sand	White	Hard	1196	1280		
Shale	Black	Soft	1280	1387		
nd Salt Sand	White	Hard	1387	1400		
Shale	Black	Soft	1400	1403		
rd Salt Sand	Gray	Hard	1403	1457		
Shale	Black	Soft	1457	1480		
and	White	Hard	1480	1630		Oil show-1530'
ittle Lime	Gray	Hard	1630	1678		
hale	Gray	Soft	1678	1702		
iq Lime	Gray	Hard	1702	1907		
hale & Lime	Black	Med.	1907	1930		
hale	Black	Med.	1930	1947		
and	Gray	Med.	1947	1968		
hale	Gray	Soft	1968	2010		
hale	Gray	Med.	2010	5000		
hale	Brown	Soft	5000	5900		5230-0/100 # 1" water

MAY 23 1983

(over) OVER →

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Marcellus	Gray	Soft	5900	6016		
Lime	Gray	Hard	<del>6016</del> TD		5495-0/100 N 1" water	
						*Electric Log Tops
						Speechley 3050-3090
						Balltown 3355-3400
						Benson 4458-4468
						1st Elk 4656-75
						Alexander 4835-4905
						Crit 5365-5378
						Brown Shale 5515-5893
						Marcellus 5955-6000
						Onondaga 6000-6020
						Chert 6020-6190
						<u>Oriskany 6204-6244</u>
						Test after 6 hrs: 80/10 Hg, 2"OF=1391 mcf/d

LOG TO 6268

6244  
 1930  
 -----  
 4314 EXPL

6000  
 917  
 -----  
 5083

6204  
 917  
 -----  
 5287

Date 6-91 1980  
 APPROVED [Signature] Owner  
 By [Signature]  
 (Title)



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DEC 31 1979

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 12-28-79

Surface Owner Moody & Lydia Rhodes  
Address Ripley, West Virginia  
Mineral Owner Moody & Lydia Rhodes et.al.  
Address As Above  
Coal Owner As Above  
Address "  
Coal Operator NONE  
Address \_\_\_\_\_

Company MERT Development, Inc.  
Address Fairmont, West Virginia  
Farm Moody & Lydia Rhodes Acres 125  
Location (waters) Wilson Fork  
Well No. 1 Elevation \_\_\_\_\_  
District Otter County Clay  
Quadrangle IVYDALE 7 1/2 Min.

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 9-3-80.

INSPECTOR TO BE NOTIFIED Martin Nichols  
ADDRESS \_\_\_\_\_  
PHONE 548-6993

Robert L. Bell  
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 February 3 1977 by Moody & Lydia Rhodes et.al. made to Ray Resources and recorded on the 16 day of March 1977, in Clay County, Book 37 Page 425,446,448,468,470,575,577,579,581  
 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) [Signature]  
Well Operator  
Rt 8 Box B36-AA  
Street  
Fairmont  
City or Town  
West Virginia 26554  
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.

47-015-1712

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 [Signature]

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 Ray Resources \_\_\_\_\_ NAME R.J. Yedlosky \_\_\_\_\_  
 ADDRESS Charleston, WV \_\_\_\_\_ ADDRESS Rt 8 Box 336-AA, Fairmont, WV \_\_\_\_\_  
 TELEPHONE 344-8393 \_\_\_\_\_ TELEPHONE 366-9111 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 6650' \_\_\_\_\_ ROTARY X \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. X \_\_\_\_\_ 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			
13 - 10	60'	60'	CTS
9 - 5/8	2100	2100	CTS
8 - 5/8			
7			
5 1/2			
4 1/2	6600'	6600'	2000' Fill Up
3			Perf. Top 6500-
2			Perf. Bottom 6550
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50' FEET \_\_\_\_\_ SALT WATER 1450' FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS 760' \_\_\_\_\_  
 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

RECEIVED  
DEC 17 1985

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

None with declaration on record Coal Operator or Owner	Continental Reserves Oil Company Name of Well Operator
Address	P.O. Box 117, Bridgeport, WV 26330 Complete Address
Coal Operator or Owner	December 10 19 85 WELL AND LOCATION
Address	Otter District
Helen & Gene Gandee Lease or Property Owner	Clay County
Box 13, Clendenin, WV 25045 Address	WELL NO. #1

STATE INSPECTOR SUPERVISING PLUGGING Craig Duckworth  
AFFIDAVIT

RECEIVED  
DEC 31 1985

STATE OF WEST VIRGINIA,  
County of Harrison ss:

DIVISION OF OIL & GAS  
DEPT. OF ENERGY

Thomas P. Sanders and David Shanle  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Continental/Halliburton respectively, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 11th day of October, 19 85, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
	Run 6,268' of 2 3/8" tubing	9 5/8"	0	2032'
	Set 300' Cement Plug from 6,268' to 5,968'	7"	2014'	4148'
	6% HOWCO Gel from 5,968' to 2,000'	2 3/8"	6268'	0
	Cut 7" casing at 2,014'			
	Set 250' Cement Plug from 2,038' to 1,788'			
	6% HOWCO Gel from 1,788' to 100'			
	Set 100' Cement Plug to surface			
Coal Seams				
(Name)		Description of Monument		
(Name)		3' above 8 5/8" casing monument		
(Name)		welded on 9 5/8" casing. Welded		
(Name)		with permit number		

and that the work of plugging and filling said well was completed on the 16th day of October, 19 85.

And further deponents saith not.  
Thomas P. Sanders  
David Shanle

Sworn to and subscribed before me this 10th day of October, 19 85.  
Notary Public