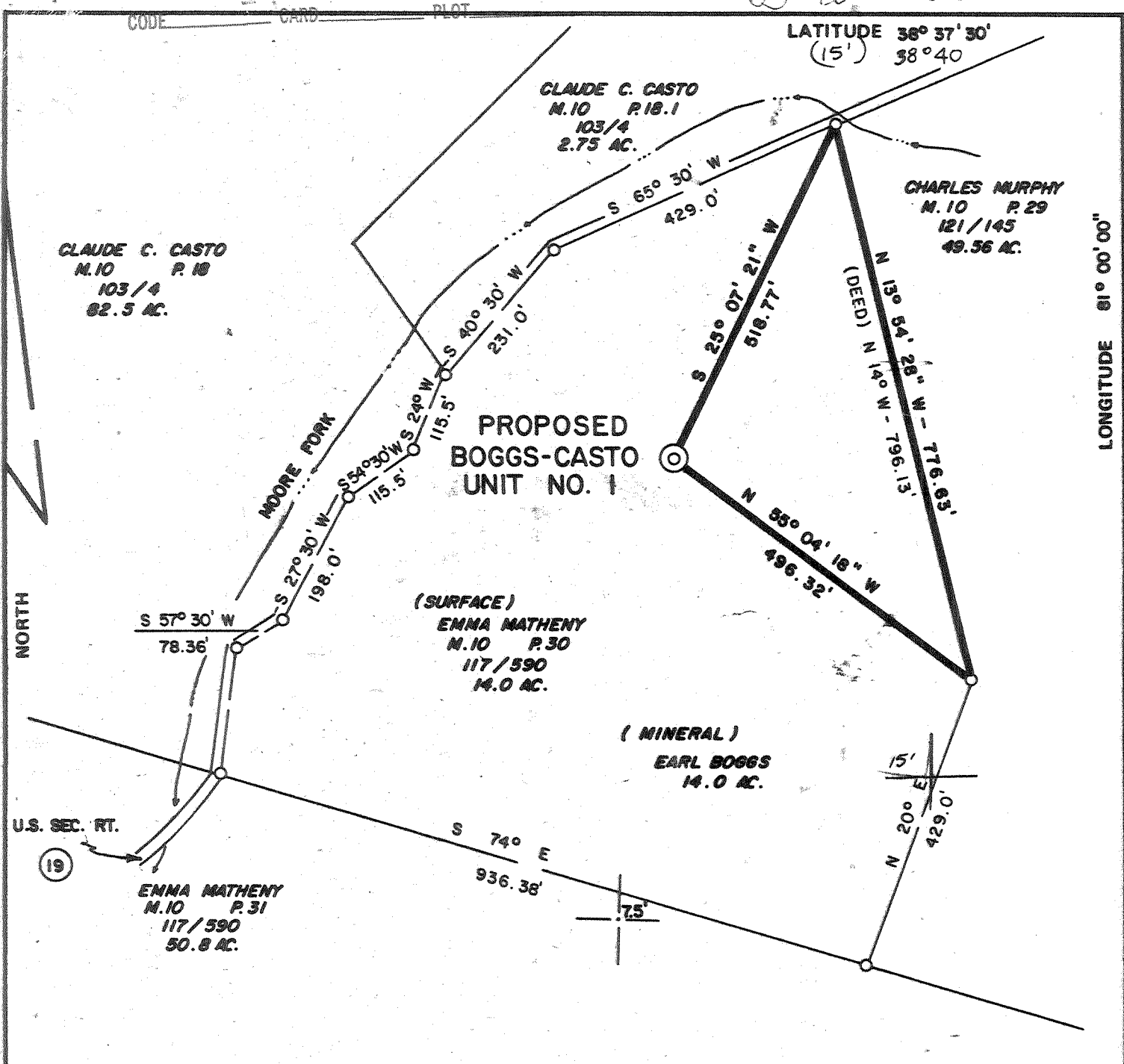


10-7-80



FILE NO. 658  
 DRAWING NO. 1  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S. DEPT. of INT. G.S. 1963 77 JEA

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) [Signature]  
 R.P.E. 3994 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE SEPT., 19 80  
 OPERATOR'S WELL NO. 1  
 API WELL NO. 47-015-1889-P  
 STATE CLAY COUNTY CLAY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 962.00 WATER SHED MOORE FORK OF BIG OTTER CREEK.  
 DISTRICT OTTER COUNTY CLAY  
 QUADRANGLE (VYDALE (7.5') OTTER 15'  
 SURFACE OWNER EMMA MATHENY ACREAGE 14 AC.  
 OIL & GAS ROYALTY OWNER EARL BOGGS LEASE ACREAGE 74 AC.  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

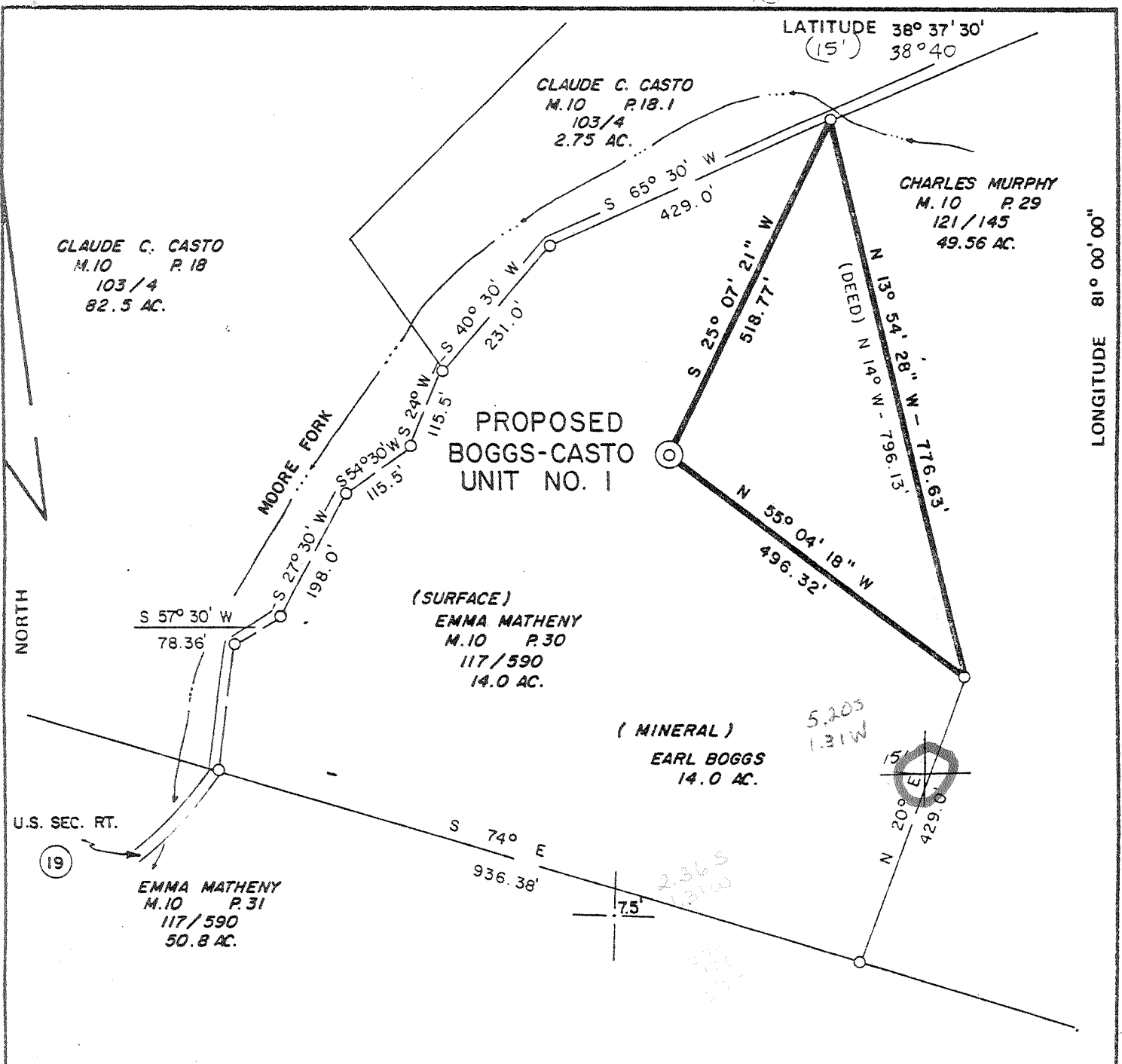
PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION HEALING SPRINGS Ss. ESTIMATED DEPTH 6535

OCT 15 1985

Continental REserves Oil Company  
 P.O. Box 117- Bridgeport, WVa. 26330  
 Surface: Emma Matheny (B. Costo#1)

DESIGNATED AGENT  
 ADDRESS: Thomas P. Sanders, Agent  
402 Orchard Street  
Bridgeport, WVa. 26330

DEEP WELL



FILE NO. 658  
 DRAWING NO. 1  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S. DEPT. of INT. G.S. 1963 77 JEA

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) \_\_\_\_\_  
 R.P.E. 3994 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE SEPT., 19 80  
 OPERATOR'S WELL NO. 1  
 API WELL NO. 47 - 015 - 1889  
 STATE CLAY COUNTY CLAY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS.") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 962.00' WATER SHED MOORE FORK OF BIG OTTER CREEK.  
 DISTRICT OTTER COUNTY CLAY  
 QUADRANGLE IVYDALE (7.5') OTTER 15' EC  
 SURFACE OWNER EMMA MATHENY ACREAGE 14 AC.  
 OIL & GAS ROYALTY OWNER EARL BOGGS LEASE ACREAGE 74 AC.  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION HEALING SPRINGS Ss. ESTIMATED DEPTH 6535  
 WELL OPERATOR MERT DEVELOPMENT INC. DESIGNATED AGENT R.J. YEDLOWSKY  
 ADDRESS RT. 8 BOX 336 AA FAIRMONT W.VA. 26554 ADDRESS RT. 8 BOX 336 AA FAIRMONT W.VA. 26554

DEEP WELL offsets clay 1712 G-6 -0- unnamed JAN 2 1981



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle Ivydale

Permit No. 47-015-1889

FEB 21 1983

Company MERT Development, Inc.  
 Address Route 8 - Box 336-AA Fairmont, W. VA.  
 Farm Earl Boggs Acres 74  
 Location (waters) Moore Fork  
 Well No. 1 Elev. 962  
 District Otter County Clay  
 The surface of tract is owned in fee by Emma Matheny  
 Address Ivydale, West Virginia  
 Mineral rights are owned by Earl Boggs  
 Address Ivydale, West Virginia  
 Drilling Commenced 8-10-81  
 Drilling Completed 8-20-81  
 Initial open flow 0 cu. ft. \_\_\_\_\_ bbls.  
 Initial production 600 mcf cu. ft. per day \_\_\_\_\_ bbls.  
 Well open 4 hrs. before test 350 RP.  
 Well treatment details: \_\_\_\_\_

Casing and W. VA. Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-1/2" 3/8	152.50	152.50	CTS
9 5/8	1968	1968	CTS
8 5/8			
7			
5 1/2			
4 1/2		6347	550'
3			
2 1/2		6007	
Liners Used			

Attach copy of cementing record.

Perforate Oriskany 6245-6252 Frac With 10,000 # 20/40, 5,000 Gal 28%.  
 Perforate Chert 6055 - 6113, Frac With 20,000 #20/40, 3,000 Gal. Acid  
 Perforate Shale 5900 - 6050, Frac With 16,000 # Sand, 668,000 SCF N<sub>2</sub>  
↳ Rhinestreet

Material was encountered at Not Encountered Feet \_\_\_\_\_ Inches \_\_\_\_\_  
 Fresh water 1180' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
 Producing Sand Oriskany - Chert - Shale Depth 5900 - 6252

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	25		
Sand			25	195		
Sand/Shale			195	1180		
Sand			1180	1400		
Sand			1400	1547		
Shale			1547	1572		
Shale			1572	1602		Stream of Oil 1572
Sand			1602	1630		
Shale			1630	1677		
Sand/Shale			1677	1696		
Sand/Lime			1696	1845		
Juniper			1845	1900		
Shale			1900	2350		
Ordon + u. Den. Sh.			2350	3300		
Beechley			3300	3340		
Sand/Shale			3360	5900		
Shale			5900	6230		
Sand Oriskany			6230	6260		
Sand/Shale			6260	6370		
Shale			6370	6460		
me Helderberg				6462 T.D.		

6230  
962  
5272

~ 200 of Sand - Acid @ base

(over)

Indicates Electric Log tops in the remarks section.

RECEIVED

OCT 10 1980



OIL & GAS DIVISION  
DEPT. OF MINES  
STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

SEP 30 1980

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 September 29, 1980

Surface Owner Emma Matheny

Company MERT Development, Inc.

Address Ivydale, W.Va.

Address Fairmont, W.Va.

Mineral Owner Earl L. Boggs UNIT

Farm Emma Matheny Acres 14 of 157

Address Ivydale, W.Va.

Location (waters) Moore Fork

Coal Owner Earl L. Boggs

Well No. 1 Elevation 962'

Address Ivydale, W.Va.

District Otter County Clay

Coal Operator None

Quadrangle Ivydale

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 7-26-81.

INSPECTOR  
TO BE NOTIFIED Martin Nichols

ADDRESS P.O. Box 554 Clendenin, W.Va.

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 December 24, 1976 by Earl L. Boggs et. ux. made to Ray Resources and recorded on the 30 day of Dec. 1976 in Clay County, Book 37 Page 295

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

Very truly yours,  
(Sign Name) [Signature]  
Well Operator  
Address Rt. 8 Box 336-AA Street  
of \_\_\_\_\_  
Well Operator Fairmont City or Town  
W.Va. 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.

47-015-1889

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]



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

**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.

Earl L. Boggs  
Coal Operator or Owner  
Ivydale, WV 25113  
Address  
Coal Operator or Owner  
Address  
Emma Matheny  
Lease or Property Owner  
Ivydale, WV 25113  
Address

Continental Reserves Oil Company  
Name of Well Operator  
P.O. Box 117, Bridgeport, WV 26330  
Complete Address  
19  
WELL AND LOCATION  
Otter District  
Clay County  
WELL NO. #1

Boggs Costo  
STATE INSPECTOR SUPERVISING PLUGGING Craig Duckworth

**RECEIVED**  
DEC 31 1985

AFFIDAVIT

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 17th day of October, 1985, 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 2 3/8" tubing to 5,900'			
	Set 440' Cement Plug from 5,900' to 5,460'	9 5/8" 4 1/2"	0	1968'
	6% HOWCO Gel from 5,460' to 4,366'	2 3/8"	5276'	1071'
	Cut 4 1/2" casing at 5,276'		5900'	0
	Set 168' Cement Plug from 4,366' to 4,198'			
	6% HOWCO Gel from 4,198' to 2,100'			
	Set 271' Cement Plug from 2,100' to 1,829'			
	6% HOWCO Gel from 1,829' to 100'			
	Set 100' Cement Plug to surface			
Coal Seams				
(Name)				
(Name)				
(Name)				
(Name)				

*M.J.* 12/18/85

and that the work of plugging and filling said well was completed on the 19th day of October, 1985.

And further deponents saith not.

Thomas P. Sanders  
David Shanle

Sworn to and subscribed before me this 10th day of December, 1985.

Bette J. Thompson  
Notary Public

11/1/85