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 ENERGY.

(SIGNED)  

STATE OF WEST VIRGINIA  
Division of Environmental Protection  
OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS _LIQUID INJECTION _WASTE DISPOSAL  
(IF "GAS," PRODUCTION __X__STORAGE _DEEP _SHALLOW _X)  
LOCATION: ELEVATION 1137  
WATER SHED Little Buck Run

WELL OPERATOR Petroleum Development Corp.  
DESIGNATED AGENT Eric R. Stearns  
ADDRESS P.O. Box 26, Bridgeport, WV 26330  
ESTIMATED DEPTH 5000

FILE NO.  
DRAWING NO.  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1 in 200  
PROVEN SOURCE OF ELEVATION Hill top 1750' NE  
of Location: elev 1207'
State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: BRYANT, ANDREW & PEGGY  Operator Well No.: V. HAUGHT #1

LOCATION:  Elevation: 1,137.00  Quadrangle: NEW MILTON

District: COVE  County: DODDRIDGE
Latitude: 14350 Feet South of 39 Deg. 10 Min. Sec.
Longitude 100 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: PETROLEUM DEVELOPMENT CORP
P. O. BOX 26
BRIDGEPORT, WV 26330-0026

Agent: ERIC R. STEARNS

Inspector: MIKE UNDERWOOD
Permit Issued: 11/12/93
Well work Commenced: 12/17/93
Well work Completed: 12/23/93

Verbal Plugging
Permission granted on:  
Rotary x Cable x Rig
Total Depth (feet) 5550'
Fresh water depths (ft) n/a
Salt water depths (ft) n/a

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 1070-1078

Casing & Used in Left Cement Fill Up
Tubing Drilling in Well Cu. Ft.

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>11 3/4&quot;</td>
<td>178'</td>
<td>178'</td>
<td>90 sks</td>
</tr>
<tr>
<td>8 5/8&quot;</td>
<td>1426'</td>
<td>1426'</td>
<td>354 sks</td>
</tr>
<tr>
<td>4 1/2&quot;</td>
<td>5441'</td>
<td>5441'</td>
<td>160 sks</td>
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</table>

OPEN FLOW DATA

Producing formation Alexander/Leopold
Pay zone depth (ft) 5175-5176.5
Gas: initial open flow 18 MCF/d Oil: initial open flow 0 Bbl/d
Final open flow 420 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1300 psig (surface pressure) after 72 Hours

Second producing formation Benson
Pay zone depth (ft) 5042-5066
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow co-mingled MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING CCAL ENCOUNTERED BY THE WELLOBRE.

For: PETROLEUM DEVELOPMENT CORP.

By: Eric R. Stearns
Date: January 7, 1994
### WELL LOG

#### FORMATION

<table>
<thead>
<tr>
<th>AGE</th>
<th>FORMATION</th>
<th>PERFS</th>
<th>80/100 SKS</th>
<th>20/40 SKS</th>
<th>ACID GAL</th>
<th>N2 (MCF)</th>
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<tbody>
<tr>
<td>T</td>
<td>Alexander /Leopold</td>
<td>9(5312'-5314')</td>
<td>50</td>
<td>500</td>
<td>1000</td>
<td>59</td>
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<tr>
<td>T</td>
<td>Benson</td>
<td>17(5042'-5046')</td>
<td>50</td>
<td>450</td>
<td>500</td>
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#### FORMATION

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**REMARKS:** FRESH & SALT WATER, COAL, OIL & GAS

- Coal @1070'-1078'
- gas chk @ 2380' no show
- gas chk @ 2554' no show
- gas chk @ 2677' no show
- gas chk @ 2865' no show
- gas chk @ 3270' no show
- gas chk @ 4024' no show
- gas chk @5048' 4/10 thru 1"/water
- gas chk @TD 3/10 thru 1"/water
- gas chk @collars 2/10 thru 1"/water
- Drillers TD
- Logger TD
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Petroleum Development Corporation
Operator's Well Number: Verna Haught #1
Well type: (a) Oil/ or Gas
(b) If Gas: Production Underground Storage

Proposed Target Formation(s): Alexander Sands
Proposed Total Depth: 5,600 feet

Approximate fresh water strata depths: 85', 210', 305'
Approximate salt water depths:
Approximate coal seam depths: 245'

Does land contain coal seams tributary to active mine? Yes/ No

Proposed Well Work: Drill and stimulate new well

CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SPECIFICATIONS</th>
<th>FOOTAGE INTERVALS</th>
<th>CEMENT</th>
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<td>Intermediate</td>
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<td>Production</td>
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<td>J-55</td>
<td>10.5</td>
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<td>Tubing</td>
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<td>Liners</td>
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PACKERS: Kind
Sizes
Depths set

For Division of Oil and Gas Use Only

[Signatures and stamps]

[Form WW-2B]
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
   (a) Name Andrew & Peggy Bryant
       Address 43 Backbone Hill Rd.
               Englishtown, NJ 07726
   (b) Name
       Address
   (c) Name
       Address

5) (a) Coal Operator:
   Name
   Address
   (b) Coal Owner(s) with Declaration
       Name Eastern Associated Coal Corp.
       Address P O Box 1233, Laidley Tower
               Charleston, WV 25324
   (c) Coal Lessee with Declaration
       Name
       Address

6) Inspector Mike Underwood
   Address Rt. 2, Box 135
       Salem, WV 26426
   Telephone (304)- 782-1043

   (304)- 782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or
contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22B, Article 1,
Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code
I have served copies of this notice and application, a location plat, and
accompanying documents pages 1 through ___ on the above named parties, by:

___ Personal Service (Affidavit attached)
___ Certified Mail (Postmarked postal receipt attached)
___ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree
to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am
familiar with the information submitted on this application form and all
attachments, and that based on my inquiry of those individuals immediately
responsible for obtaining the information, I believe that the information
is true, accurate, and complete.

I am aware that there are significant penalties for submitting false
information, including the possibility of fine and imprisonment.

Well Operator
By: PETROLEUM DEVELOPMENT CORPORATION
   Its: Geologist
   Address P O Box 26
       Bridgeport, WV 26330
   Telephone 304-842-6256

Subscribed and sworn before me this 14TH day of October, 1993

Janet S. Garbutt Notary Public

My commission expires July 7TH, 2003