

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____	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) <u>David L. Jackson</u> R.P.E. _____ L.L.S. 708	
DRAWING NO. <u>1</u>		
SCALE <u>1" = 1000'</u>		
MINIMUM DEGREE OF ACCURACY <u>1 in 200</u>		
PROVEN SOURCE OF ELEVATION <u>Hilltop 2060'</u> <u>NW of Location; elev. 1337'</u>		

STATE OF WEST VIRGINIA Division of Environmental Protection OFFICE OF OIL AND GAS		DATE <u>February 1</u> , 19 <u>94</u> OPERATOR'S WELL NO. <u>Cox Heirs No. 5</u> API WELL NO. _____
WELL TYPE: OIL ___ GAS <u>X</u> LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW <u>X</u>		<u>47</u> - <u>017</u> - <u>4107</u> STATE COUNTY PERMIT
LOCATION: ELEVATION <u>1108</u> WATERSHED <u>Toms Fork</u> DISTRICT <u>New Milton</u> COUNTY <u>Doddridge</u> QUADRANGLE <u>New Milton 7 1/2'</u> <u>Vadis WC</u>		COUNTY NAME
SURFACE OWNER <u>Pauldin G. Coplin</u> ACREAGE <u>84</u> OIL & GAS ROYALTY OWNER <u>John S. Cox Heirs et al</u> LEASE ACREAGE <u>402</u> LEASE NO. <u>477300</u>		
PROPOSED WORK: DRILL <u>X</u> CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION <u>X</u> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) <u>6-6 307</u>		
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ TARGET FORMATION <u>Benson</u> ESTIMATED DEPTH <u>5000</u> WELL OPERATOR <u>Petroleum Development Corp. 687</u> DESIGNATED AGENT <u>Eric R. Stearns</u> ADDRESS <u>P.O. Box 26, Bridgeport, WV 26330</u> ADDRESS <u>P.O. Box 26, Bridgeport, WV 26330</u>		

MAY 18 94

Permitting  
Office of Oil & Gas

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: COPLIN, PAULDINE G. Operator Well No.: COX HEIRS #5

LOCATION: Elevation: Quadrangle:

District: NEW MILTON County: DODDRIDGE  
Latitude: Feet South of Deg. Min. Sec.  
Longitude: Feet West of Deg. Min. Sec.

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

Agent: ERIC R. STEARNS

Inspector: MIKE UNDERWOOD  
Permit Issued: 02/23/94  
Well work Commenced: 03/31/94  
Well work Completed: 04/05/94  
Verbal Plugging  
Permission granted on:  
Rotary x Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5589'  
Fresh water depths (ft) \_\_\_\_\_  
1600  
Salt water depths (ft) \_\_\_\_\_  
n/a

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	15'		
11 3/4"	177'	177'	105 sks
8 5/8"	1707'	1707'	425 sks
4 1/2"	5552'	5552'	436 sks

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): n/a

OPEN FLOW DATA

Producing formation Alexander Pay zone depth (ft) 5210-5391  
Gas: Initial open flow ns MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 237 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1800 psig (surface pressure) after 72 Hours

Second producing formation Benson Pay zone depth (ft) 4987-5088  
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 COAL ENCOUNTERED BY THE WELLBORE.

For: PETROLEUM DEVELOPMENT CORP.

By: Eric R. Stearns  
Date: May 13, 1994

MAY 20 1994  
MAY 20 1994

OX HEIRS #5

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
st	Alexander	14 (5210' - 5391')	50	450	500	56
nd	Benson/Riley	14 (4987' - 5088')	50	410	500	54

W E L L L O G

FORMATION	TOP FEET	BOTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
LB - GL	0	10	
sand, shale, RR	10	1956	1" water @ 1600'
Maxton	1956	2042	
sand, shale	2042	2208	
Big Lime	2208	2251	
sand, shale	2251	2254	
Big Injun	2254	2323	
sand, shale	2323	2436	gas chk @ 2421' No Show
Weir	2436	2525	
sand, shale	2525	2618	gas chk @ 2578' No Show
Berea	2618	2634	
sand, shale	2634	2811	gas chk @ 2763' No Show
Gordon	2811	2844	
sand, shale	2844	3164	gas chk @ 2982' No Show
5th	3164	3196	gas chk @ 3170' No Show
sand, shale	3196	3480	gas chk @ 3359' No Show
Warren	3480	3603	
sand, shale	3603	3760	
Speechley	3760	4120	
sand, shale	4120	4150	
Balltown	4150	4468	
sand, shale	4468	4515	gas chk @ 4503' No Show
Bradford	4515	4672	
sand, shale	4672	4820	
Riley	4820	5031	
sand, shale	5031	5085	gas chk @ 5068' No Show
Benson	5085	5128	gas chk @ 5128' No Show
sand, shale	5128	5184	
Leopold	5184	5309	
sand, shale	5309	5334	gas chk @ 5317' No Show
Alexander	5334	5465	gas chk @ 5505' No Show
sand, shale	5465	5600	Drillers TD
		5589	Logger TD

78781

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- 1) Date: Feb. 2, 1994
- 2) Operator's well number  
Cox Heirs #5
- 3) API Well No: 47 - 017 - 4107  
State - County - Permit

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 Pauldine G. Coplin  
Address Rt. 1, Box 246A  
Weston, WV 26492
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Declaration  
Name Tygart Resources, Inc.  
Address 1900 Grant Building  
Pittsburgh, PA 15219
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood  
Address Rt. 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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

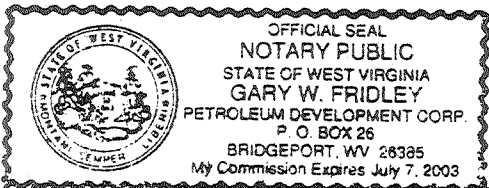
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:  
\_\_\_\_\_ Personal Service (Affidavit attached)  
\_\_\_\_\_ Certified 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 PETROLEUM DEVELOPMENT CORPORATION  
By: \_\_\_\_\_  
Its: \_\_\_\_\_ Geologist  
Address P O Box 26  
Bridgeport, WV 26330  
Telephone 842-6256



Subscribed and sworn before me this 3 day of February, 1994

Gary W. Fridley Notary Public  
My commission expires July 7, 2003

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

- 1) Well Operator: 687 Petroleum Development Corporation 39200 (6) 511
2) Operator's Well Number: Cox Heirs #5 3) Elevation: 1108'
4) Well type: (a) Oil / or Gas X/ (b) If Gas: Production X/ Underground Storage / Deep / Shallow X/
Proposed Target Formation(s): Alexander 439
Proposed Total Depth: 5800 feet
Approximate fresh water strata depths: 70', 160', 300, 595', 890'
Approximate salt water depths: 1415', 1595', 1660'
9) Approximate coal seam depths: 220' - 224'
10) Does land contain coal seams tributary to active mine? Yes / No X/
11) Proposed Well Work: Drill & stimulate new well
12)

CASING AND TUBING PROGRAM

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), and CEMENT (Fill-up). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

PACKERS : Kind Sizes Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP Plat WW-9 WW-2B Bond (Type) Agent

Handwritten notes: 008001 5