

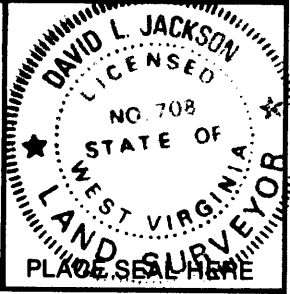
**REFERENCES**

Location	8" maple
S88E SD=140.0'	HD=139.9'
N80W SD=124.5'	HD=124.4'

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Spot elevation  
2300' NE of Location: elev. 2081

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) David L. Jackson  
 R.P.E. \_\_\_\_\_ L.L.S. 708



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

DATE April 18, 19 96  
 OPERATOR'S WELL NO. Playford Maust  
 API WELL NO. No. 1  
47-077-00295  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 2884 WATERSHED Big Sandy Creek  
 DISTRICT Grant COUNTY Preston  
 QUADRANGLE Brandonville

SURFACE OWNER Playford Maust et ux ACREAGE 342  
 OIL & GAS ROYALTY OWNER Playford Maust et ux LEASE ACREAGE 342  
 LEASE NO. 521600

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Benson ESTIMATED DEPTH 5000' 5500' JUN 7 1996  
 WELL OPERATOR Petroleum Development Corp. DESIGNATED AGENT Eric R. Stearns  
 ADDRESS P.O. Box 26, Bridgeport, WV 26330 687 ADDRESS P.O. Box 26, Bridgeport, WV 26330

FORM WW-6

COUNTY NAME PERMIT

AUG 13 1996

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

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: MAUST, PLAYFORD

Operator Well No.: P. MAUST #1

LOCATION: Elevation: 2,064.00 Quadrangle: BRANDONVILLE

District: GRANT County: PRESTON  
Latitude: 11440 Feet South of 39 Deg. 45Min. 0 Sec.  
Longitude 6680 Feet West of 79 Deg. 32 Min. 30 Sec.

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

Agent: ERIC STEARNS

Inspector: PHILLIP TRACY  
Permit Issued: 06/03/96  
Well work Commenced: 06/23/96  
Well work Completed: 06/26/96

Verbal Plugging  
Permission granted on: \_\_\_\_\_

Rotary x Cable \_\_\_\_\_ Rig

Total Depth (feet) 3234'

Fresh water depths (ft) \_\_\_\_\_

50; 80'; 120'; 342'

Salt water depths (ft) \_\_\_\_\_

n/a

Is coal being mined in area (Y/N)? N

Coal Depths (ft): n/a

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	30'	30'	
7"	549'	549'	110 sks
4 1/2"	3020'	3020'	146 sks

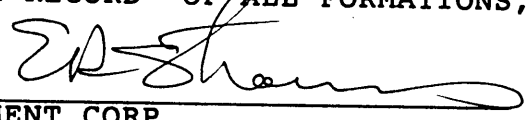
OPEN FLOW DATA

Producing formation Bradford/ Lower Balltown Pay zone depth (ft) 2780-2843  
Gas: Initial open flow n/a MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 373 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 690 psig (surface pressure) after 72 Hours

Second producing formation Upper Balltown Pay zone depth (ft) 2682-2738  
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

Third producing formation Speechley Pay zone depth (ft) 2466-2591

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: August 12, 1996

AUG 21 1996

Playford Maust #1

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1st	Bradford	4 (2841' - 2843')	25	400	500	
	Balltown	8 (2780' - 2786')				
2nd	Balltown	12 (2682' - 2738')	25	400	500	
3rd	Speechley	12 (2466' - 2591')	50	430	500	

## W E L L L O G

FORMATION	TOP FEET	BOTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL	0	10	15 GPM @50'
sand, shale, RR	10	475	75 GPM @80'
Little Lime	475	485	50 GPM @120'
sand, shale	485	502	75 GPM @342'
Big Lime	502	670	
sand, shale	670	672	
Keener	672	724	
sand, shale	724	728	
Big Injun	728	773	
sand, shale	773	850	
Weir	850	1027	
sand, shale	1027	1060	
Gantz	1060	1105	
sand, shale	1105	1152	
50 ft	1152	1202	
sand, shale	1202	1206	
30 ft	1206	1250	
sand, shale	1250	1690	
4th	1690	1736	
sand, shale	1736	1916	
5th	1916	1980	
sand, shale	1980	2002	
Bayard	2002	2043	
sand, shale	2043	2156	
Warren	2156	2200	
sand, shale	2200	2454	
Speechley	2454	2534	
sand, shale	2534	2540	
Tiona	2540	2574	
sand, shale	2574	2583	
Balltown	2583	2794	
sand, shale	2794	2822	
Bradford	2822	2845	
sand, shale	2845	3231	Drillers TD
		3234	Logger TD

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

MAY 31 1996

Permitting  
Office of Oil & Gas

- 1) Well Operator: PETROLEUM DEVELOPMENT CORPORATION 38200 (D) 264
- 2) Operator's Well Number: Playford Maust #1 3) Elevation: 2064'
- 4) Well type: (a) Oil \_\_\_ / or Gas XX / Issued 06/03/96  
 (b) If Gas: Production XX / Underground Storage \_\_\_ / Expires 06/03/98  
 Deep \_\_\_ / Shallow XX /
- 22113 Proposed Target Formation(s): Elk Sands
- Proposed Total Depth: 5500' feet
- Approximate fresh water strata depths: 50'; 85'; 190'; 385'
- Approximate salt water depths: None Reported
- Approximate coal seam depths: None Reported
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No XX /
- 11) Proposed Well Work: Drill & Stimulate new well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	9-5/8"	H-40	32#	30'	-----	-----
Fresh Water						
Coal						
Intermediate	7"	H-40	17#	520'	520'	38CSR18-11.3 38CSR18-11.2.2
Production	4-1/2"	J-55	10.5#	5500'	5500'	38CSR18-11.1 450 sks
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

19833  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket  Agent  
 (Type)

**RECEIVED**  
WV Division of  
Environmental Protection  
MAY 3 1 1996

1) Date: April 23, 1996  
2) Operator's well number  
Playford Maust #1  
3) API Well No: 47 - 77 - 0295  
State County Permit

Permitting  
Office of Oil & Gas  
**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
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 Playford Maust  
Address Rt. 4, Box 116  
Bruceon Mills, WV 26525
- (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Phillip Tracy  
Address Rt. 2, Box 37-A  
Montrose, WV 26283  
Telephone (304)-636-8798
- (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

XX Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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:

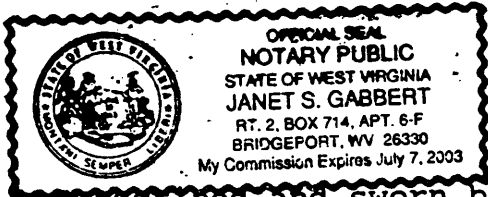
- \_\_\_\_\_ Personal Service (Affidavit attached)  
\_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 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: Eric R. Stearns  
Its: VP, Exploration & Development  
Address P O Box 26  
Bridgeport, WV 26330  
Telephone (304) 842-6256



Subscribed and sworn before me this 13<sup>TH</sup> day of MAY, 1996

Janet S. Gabbert Notary Public  
My commission expires July 7, 2003