



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS BM Nina 874
USGS NEW MILTON QUAD.

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) Bernedett Poole
 R.P.E. _____ L.L.S. 624
Norton Surveys + Consulting Inc.

PLACE SEAL HERE

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



DATE April 14, 1981
 OPERATOR'S WELL NO. POOLE #1
 API WELL NO. _____
47 - 017 - 2994
 STATE COUNTY 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 1208' WATER SHED Hunters Fork
 DISTRICT Green brier COUNTY Doddridge
 QUADRANGLE New Milton Vadis NC
 SURFACE OWNER Thurman Stout ACREAGE 94
 OIL & GAS ROYALTY OWNER Bernedett Poole LEASE ACREAGE 94
 LEASE NO. _____
 PROPOSED WORK: DRILLY 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 BENSON ESTIMATED DEPTH 5000'
 WELL OPERATOR Petroleum Development DESIGNATED AGENT Petroleum Development Corporation
 ADDRESS 103 East Main Street ADDRESS 103 East Main Street
Bridgeport, W. Va. 26330 Bridgeport, W. Va. 26330

RECEIVED



IV-35
(Rev 8-81)

AUG 16 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Date _____
Operator's Well No. ONE (1)
Farm BERNEDETT POOLE
API No. 47 - 017 - 2994

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1208' Watershed HUNTERS FORK
District: GREENBRIER County DODDRIDGE Quadrangle NEW MILTON

COMPANY PETROLEUM DEVELOPMENT CORPORATION
ADDRESS P.O. BOX 26 BRIDGEPORT WV 26330
DESIGNATED AGENT SAME AS ABOVE
ADDRESS SAME AS ABOVE
SURFACE OWNER TRUMAN STOUT
ADDRESS RT. 1 SALEM, WV 26426
MINERAL RIGHTS OWNER A.C. BALLOUZ HEIRS
ADDRESS P.O. BOX 104 BRIDGEPORT, WV 26330
OIL AND GAS INSPECTOR FOR THIS WORK _____
ADDRESS _____

PERMIT ISSUED 4/20/81
DRILLING COMMENCED 05/21/81
DRILLING COMPLETED 05/29/81

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	40'	40'	circulate
9 5/8			
8 5/8	1714'	1714'	circulate 510
7			
5 1/2			
4 1/2	5609'	5609'	190 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Cedar Creek Depth 5454 feet
Depth of completed well 5644 feet Rotary X / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA see back
Producing formation BENSON Pay zone depth 5199-5531 feet
Gas: Initial open flow 127 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1250 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

<u>Cedar Creek</u>	335 bbl	40,000	20/40	1000 gal. acid	15%	2.5 lb. sand/gal.
6 Perforation	<u>5507' - 5531'</u>					
<u>Leopold</u>	335 bbl	40,000	20/40	1000 gal. acid	15%	2.5 lb. sand/gal.
2 Perforation	<u>5355' - 5357'</u>					
<u>Benson</u>	335 bbl	40,000	20/40	1000 gal. acid	15%	2.5 lb. sand/gal.
5 Perforation	<u>5199' - 5203'</u>					

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
K.B. - G.L.			0	10'	
Sand, shale, red rock			10'	2200'	
Big Lime			- 2200'	2250'	Gas check @ 2057' - No show
Big Injun			2250'	2390'	
Sand, shale			2390'	2486'	
Weir			2486'	2540'	
Sand, shale			2540'	2706'	Gas check @ 2500' - No show
Gantz			- 2706'	2730'	
Sand, shale			2730'	2785'	
50 ft.			2785'	2846'	
Sand, shale			2846'	2909'	
Gordon Stray/Gordon			2909'	3012'	
Sand, shale			3012'	3070'	
4th			3070'	3090'	
Sand, shale			3090'	3156'	
5th			3156'	3222'	
Sand, shale			3222'	3558'	
Warren			3558'	3660'	
Sand, shale			3660'	3723'	
Upper Speechley			3723'	3786'	
Sand, shale			3786'	3876'	
Speechley			3876'	3944'	
Sand, shale			3944'	4035'	
Balltown			4035'	4117'	
Sand, shale			4117'	4608'	
Bradford			4608'	4730'	
Sand, shale			4730'	4920'	
Riley			4920'	5006'	
Sand, shale			5006'	5190'	Gas check @ 4970' 2/10 thru 1" H ₂ O
Benson			- 5190'	5214'	
Sand, shale			5214'	5346'	
Leopold			5346'	5380'	
Sand, shale			5380'	5454'	
<u>Cedar Creek</u>			5454'	5555'	
Sand, shale			5555'	<u>5644'</u> TD	

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION, BRIDGEPORT WV 26330

Well Operator

By:

Date:

John Mitchell

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED
APR 20 1981

OIL AND GAS WELL PERMIT APPLICATION & GAS DIVISION
DEPT. OF MINES

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE April 16, 1981

Surface Owner Thurman Stout
Address Route 1, Salem, WV 26426
Mineral Owner A. C. Ballouz Hrs.
Address P. O. Box 104 Bridgeport, WV 26330
Coal Owner Willis Tetrick, Jr. Maxwell Sutton
Address Union National Bank of Clarksburg
Clarksburg, WV 26301
Coal Operator _____
Address _____

Company Petroleum Development Corporation
Address P. O. Box 26, Bridgeport, WV 26330
Farm Benedett Poole Acres 94
Location (waters) Hunters Fork
Well No. 1 Elevation 1208'
District Greenbrier County Doddridge
Quadrangle New Milton

PERMIT MUST BE POSTED AT THE WELL SITE
Clarence Mutschelknaus
Elizabeth Bennet Hrs.
provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved
drilling. This permit shall expire if
operations have not commenced by 1-5-82

INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS 321 Beech St., Clarksburg, WV 26301
PHONE 622-3871

Fred B. Burdett
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 January 15 1981 by C. W. Mutschelknaus made to Petroleum Development Corp. and recorded on the _____ day of _____ 1981, in Doddridge County, Book 119 Page 285
XX 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
PETROLEUM DEVELOPMENT CORPORATION
P. O. Box 26
Street
Bridgeport,
City or Town
West Virginia 26330
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.

BLANKET BOND

47-017-2994

PERMIT NUMBER

[Signature]

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Unknown _____ NAME Petroleum Development Corporation _____
 ADDRESS _____ ADDRESS P. O. Box 26, Bridgeport, WV 26330 _____
 TELEPHONE _____ TELEPHONE 842-6256 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 5000' _____ ROTARY XX _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Benson _____
 TYPE OF WELL: OIL XX GAS _____ COMB. _____ 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			
18 - 10			
14 - 5.8			
12 - 5.8	<u>1650</u>		<u>Cement to surface</u>
8 - 4	<u>5200</u>		<u>300</u>
6 - 4			Perf. Top
4 - 4			Perf. Bottom
3 - 4			Perf. Top
2 - 4			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____

APPROXIMATE COAL DEPTHS _____

IS COAL BEING MINED IN THE AREA? _____ 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