



Longitude 79° 55'

12,250'

39 13 00  
79 52 55

1" = 500'

New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure 1 in 200'  
 Source of Elevation U.S.G.S. B.M. Meatsville - 1234'  
 U.S.G.S. NESTORVILLE Topographic Quadrangle 7 1/2 min.  
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia." *Paul G. Dean*

Company Petroleum Development Corp.  
 Address PO Bx 26 103 E MAIN Bridgeport, W. Va.  
 Farm Wilson - Nicola B-1328  
 Tract 1 Acres 91 Lease No. 78206  
 Well (Farm) No. #1 Serial No. B-1328  
 Elevation (Spirit Level) 1280' NW  
 Quadrangle NESTORVILLE, BELINGTON 15'  
 County BABBOUR District PLEASANT  
 Engineer PAUL G. DEAN  
 Engineer's Registration No. 1856  
 File No. P.D.C.1 Pg. 4 Drawing No. 1  
 Date 11-28-78 Scale 1" = 500'

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

WELL LOCATION MAP  
 FILE NO. 47-001-1119

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

JAN 25 1979

64 H.M. - ( ) TAYLOR DRAIN 316



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 4

Quadrangle Nestorville

Permit No. Bar-001-1119

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

Company Petroleum Development Corporation  
Address P.O. Box 26, Bridgeport, WV 26330  
Farm Wilson-Nicola Acres 91

Location (waters) Tygart River  
Well No. (1) B-1328 Elev. 1180  
District Pleasant County Barbour

The surface of tract is owned in fee by \_\_\_\_\_  
Mary E. Wilson et al  
Address 145 S. Main St., Philippi, W.V. 26416

Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_

Drilling Commenced 2/2/79  
Drilling Completed 2/11/79

Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production 237m cu. ft. per day \_\_\_\_\_ bbls.  
Well open 48 hrs. before test 1125 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. <del>13-10"</del> 11 3/4"	29'		Surface
9 5/8			
8 5/8	729'		200 Sks
7			
5 1/2			
4 1/2	4386'		550 Sks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

<u>Alex.</u> Elk	405 BBL.	10,000#	80/100	23,000#	20/40
Benson	440 BBL.	10,000#	80/100	30,000#	20/40
Balltown	520 BBL.	10,000#	80/100	40,000#	20/40
Elizabeth	510 BBL.	15,000#	80/100	45,000#	20/40

Coal was encountered at 33-39' 130' 135' 260-270' Feet \_\_\_\_\_ Inches  
Fresh water 1/2" @ 17' Increase @ 130' Feet \_\_\_\_\_ Inches  
Producing Sand Elk, Benson, Riley Salt Water \_\_\_\_\_ Feet  
Alex. Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand, Shale			0	33		
Coal			33	39		H <sub>2</sub> O 1/2" @ 17'
Shale			39	47		
Sand			47	90		
Sand, Shale			90	110		
Sand, White			110	130		H <sub>2</sub> O Increase @ 130'
Coal			130	135		
Sand, Gray			135	185		
Sand, Shale			185	260		
Coal			260	270		
Sand, Shale			270	390		
Shale			390	480		
Shale, R.R. Stks.			480	750		
Sand			750	850		
Sand, Shale			850	900		
Big Lime			900	1022		
Big Injun			1022	1097		
Sand, Shale			1097	1146		
Squaw Sand			1146	1190		
Sand, Shale			1190	1300		
Red Rock			1300	1445		
Sand, Shale			1445	1846		
5th Sand			1846	1948		
Sand, Shale			1948	1986		

Bayard	1986	2060	
Sand	2060	2130	
Elizabeth Sand	2130	2149	
Sand, Shale	2149	2240	
Warren Sand	2240	2292	
Sand	2292	2716	
Balltown	2716	2730	
Sand, Shale	2730	2794	
Balltown Sand	2794	2828	
Sand	2828	3460	
Riley	3460	3600	
Sand	3600	3730	
Benson	3730	3746	
Sand	3746	3980	
1st Elk	3980	3992	
Sand, Shale	3992	4200	
2nd Elk <i>Alex</i>	4200	4282	
Sand, Shale	4282	4802	T.D.

Date April 10, 1979

Approved Petroleum Development Corp. , Owner

By *John C. Moore*  
Its Petroleum Engineer



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

DEC 26 1978

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 December 1, 1978

Surface Owner Mary E. Wilson, etal  
Address 145 S. Main St. Philippi, WV 26416

Company Petroleum Development Corporation

Mineral Owner Same  
Address \_\_\_\_\_

Address P.O. Box 26 Bridgeport, WV 26330

Coal Owner (1) Hillman Coal & Coke Co.  
1900 Grant Bldg; Pitts, PA

Farm Wilson-Nicola Acres 91

Address (2) Republic Steel Corp.

Location (waters) Tygart River

~~Coal Operator~~ Fayette Bk Bldg; Uniontown, PA

Well No. One (B-1328) Elevation 1180/280

Address (3) Victor J. Mosesso  
Philippi, WV 26416

District Pleasant County Barbour

Quadrangle Nestorville

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 9-5-79.

INSPECTOR

TO BE NOTIFIED Bob Stewart

ADDRESS Box 345 Jane Lew, WV 26378

PHONE 884-7782

Robert H. [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 September 4th 1968 by Mary E. Wilson etal made to Consolidated Gas Sup. Corp and recorded on the 13th day of February 1969, in Barbour County, Book 65 Page 210

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

Address  
of  
Well Operator

Very truly yours,  
PETROLEUM DEVELOPMENT CORPORATION

(Sign Name) [Signature]

Well Operator

P. O. BOX 26

Street

BRIDGEPORT

City or Town

WEST VIRGINIA 26330

State

BLANKET LOG

47-001-1119

PERMIT NUMBER

**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: 4600' ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Benson  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS XX 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			
13 - 10 11 3/4	40'	40'	Surface
9 - 5/8			
8 - 5/8	700'	700'	Surface
7			
5 1/2		4550'	
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 20' FEET 75' SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS 450'  
 IS COAL BEING MINED IN THE AREA? NO 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