



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1" IN 200'
 Source of Elevation U.S.G.S. B.M. 1486 MARY'S CHAPEL PHILIPPI
 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 103 E. MAIN ST. BRIDGEPORT W.VA.
 Farm E. SAYERS REPUBLIC STEEL CORP
 Tract _____ Acres 167.00 Lease No. B-1007
 Well (Farm) No. 6 Serial No. 1007
 Elevation (Spirit Level) 1420'
 Quadrangle PHILIPPI 7 1/2' 15' NE
 County BARBOUR District PLEASANT
 Engineer PAUL G. DEAN
 Engineer's Registration No. 1856
 File No. PDC 2 Pg. 13 Drawing No. 1
 Date 6/28/78 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. BAR-1032

+ 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.

47-001 JUL 31 1978



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

FEB 20 1979

Oil and Gas Division

OIL & GAS DIVISION
DEPARTMENT OF MINES

WELL RECORD 4

Rotary XX Oil _____
Cable _____ Gas XX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Philippi

Permit No. BAR-1032

47-001

Company Petroleum Development Corporation

Address P.O. Box 26, Bridgeport, WV 26330

Farm Ezra Sayers Acres 167

Location (waters) Foxgrape Run

Well No. Six Elev. 1420

District Pleasant County Barbour

The surface of tract is owned in fee by _____
Republic Steel Corp.

Address Fayette Bk. Bldg. Uniontown, PA

Mineral rights are owned by Republic Steel Corp.

Address Rt. 2, Philippi, W.V.

Drilling Commenced 8/05/78

Drilling Completed 8/11/78

Initial open flow _____ cu. ft. _____ bbls.

Final production 140 m cu. ft. per day _____ bbls.

Well open 48 hrs. before test 1400 RP.

Well treatment details:

Attach copy of cementing record.

<u>Riley 646 bbls</u>	<u>10,000</u>	<u>80/100</u>
	<u>30,000</u>	<u>20/40</u>
<u>Benson 536 bbls</u>	<u>10,000</u>	<u>80/100</u>
	<u>30,000</u>	<u>20/40</u>

Coal was encountered at 774; 803 Feet _____ Inches

Fresh water _____ Feet _____ Salt Water _____ Feet _____

Producing Sand Benson; Riley Depth 4468-72; 4282-85

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	22		
Shale			22	774		
Coal			774	781		
Sand & Shale			781	803		
Coal			803	806		
Sand & Shale			806	1570		
Big Lime			1570	1710		
Injun			1710	1780		
Shale			1780	1950		
Gantz			1950	2000		
Shale			2000	2185		
4th			2185	2220		
Shale			2220	2294		
5th			2294	2320		
Shale			2320	2470		
Speechly			2470	2600		
Shale			2600	3056		
Balltown			3056	3065		
Shale			3065	3430		
Bradford			3430	3440		
Shale			3440	4280		
Riley			4280	4290		
Shale			4290	4462		

(over)

* Indicates Electric Log tops in the remarks section.

FEB 20 1979

Formation	Color	Hard or Soft	Top Feet ⁴	Bottom Feet	Oil, Gas or Water	* Remarks
Benson			4462	4475 4595 4593	T.D. Logger T.D. Driller	

Date February 6, 1979

APPROVED Petroleum Development Corp. Owner

By John C. Morse
(Title)
Petroleum Engineer



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUL 14 1978

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE June 30, 1978

Surface Owner Republic Steel Corporation Company Petroleum Development Corporation
 Address Fayette Bk Bldg Uniontown Pa Address P O Box 26 Bridgeport WV 26330
 Mineral Owner Republic Steel Corp (Subject to Life Est of A Mick Stansberry, Donald & Janice Hinkle) Farm Ezra Sayers Acres 167
 Address (1) F W Smith 214 Maple Ave Philippi Location (waters) Foxgrape Run
 Coal Owner (2) Hillman Coal & Coke Co Well No. Six (1007) Elevation 1420'
 Address 1900 Grant Bldg Pitts Pa District Pleasant County Barbour
 Coal Operator (3) Republic Steel Corp Quadrangle Philippi
 Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

Provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved

INSPECTOR

drilling

TO BE NOTIFIED

Bob Stewart

Operations have not commenced by 11-14-78

ADDRESS Box 345 Jane Lew WV 26378

Deputy Director - Oil & Gas Division

PHONE 884-7782

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 March 16th 1915 by Ezra M Sayers made to R E Talbott and recorded on the 20th day of May 1915, in Barbour County, Book 84 Page 45

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:

Very truly yours,
PETROLEUM DEVELOPMENT CORPORATION
(Sign Name) _____
Well Operator

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

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 BOARD

BAR-1032

PERMIT NUMBER

47-001

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
 TELEPHONE _____ TELEPHONE 842-6256
 ESTIMATED DEPTH OF COMPLETED WELL: 4500' 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 <u>11 3/4</u>	40'	40'	Surface
9 - 5/8			
8 - 5/8	800'	800'	Surface
7			
5 1/2			
4 1/2		4400'	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 30' FEET 100' SALT WATER _____ FEET

APPROXIMATE COAL DEPTHS 450' 650'

IS COAL BEING MINED IN THE AREA? Yes BY WHOM? Republic Steel Corporation

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

REC-1-111

100-70