





IV-35  
(Rev. 10-1-85)  
**RECEIVED**  
OCT 11 1985

Date July 15, 1985  
Operator's Well No. 1  
Farm Pigott  
API No. 47 - 017 - 3188

State of West Virginia  
Department of Mines  
Oil and Gas Division

DIVISION OF OIL & GAS  
**DEPT. OF ENERGY**

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 X /)

LOCATION: Elevation: 1000' Watershed Wolfpen Run  
District: New Milton County Doddridge Quadrangle New Milton 7 1/2

COMPANY R.C. Development, Inc.  
ADDRESS Route 4, Box 253 Clarksburg, WV  
DESIGNATED AGENT Patrick H. Cunningham  
ADDRESS Route 4, Box 253 Clarksburg, WV  
SURFACE OWNER Randolph M. Schools  
ADDRESS 8115 Mid Haven Road Baltimore Md. 21222  
MINERAL RIGHTS OWNER Dorothy W. Pigott  
ADDRESS 406 Woods St. West Union WV 26452  
OIL AND GAS INSPECTOR FOR THIS WORK, MIKE  
Underwood ADDRESS Salem, WV 26426  
PERMIT ISSUED \_\_\_\_\_  
DRILLING COMMENCED January 5, 1983  
DRILLING COMPLETED January 9, 1983  
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"	20'	20'	
9 5/8	407'	407'	1705 SK
8 5/8			
7			
5 1/2			
4 1/2		2355'	250 SK
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun - Weir Depth 2300 feet  
Depth of completed well 2375 feet Rotary X / Cable Tools  
Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 2112-2116 feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 400 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure 300 psig (surface measurement) after 12 hours shut in.  
(If applicable due to multiple completion--)  
Second producing formation Weir\* Pay zone depth 2310-2332 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  
\* Comingled with first stage

(Continue on reverse side)

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DETAILS OF PREPARED MEMOIRS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

First Stage: Weir 2310-2332 w/16 holes; 60,000# 20/40 SD;  
620 BBL S/L Fluid

Second Stage: Big Injun 2112-2116 w/16 holes; 35,000# 20/40 SD;  
830 BBL S/L Fluid

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Clay and Red Rock	0	160	Including indication of all fresh and salt water, coal, oil and gas
Sand	160	235	
Shale	235	460	
Sand & Shale	460	920	
Shale	920	1015	
Sand & Shale	1015	1992	
Little Lime	1992	2015	
Shale	2015	2030	
Big Lime	2030	2098	
Big Injun <i>GR</i>	2098	2135	
Shale	2135	2262	
Weir	2262	2375	
<u>TD</u>	2375	2375	

(Attach supporting sheets as necessary)

R.C. Development, Inc.  
Well Operator  
By: *Patrick W. Cunningham*  
Date: July 15, 1985

Note: Regulation 2.02(c) of the 1981 F-111000.  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including well, encountered in the drilling of a well."



1) Date: \_\_\_\_\_, 19\_\_\_\_  
 2) Operator's Well No. \_\_\_\_\_  
 3) API Well No. 47 \_\_\_\_\_ State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE: A Oil \_\_\_\_\_ Gas \_\_\_\_\_  
 B (If "Gas", Production \_\_\_\_\_)  
 Underground storage \_\_\_\_\_ Deep \_\_\_\_\_ Shallow \_\_\_\_\_  
 5) LOCATION: Elevation: \_\_\_\_\_ Watershed: \_\_\_\_\_  
 District: \_\_\_\_\_ County: \_\_\_\_\_ Quadrangle: \_\_\_\_\_

6) WELL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_  
 11) DESIGNATED AGENT \_\_\_\_\_  
 Address \_\_\_\_\_

7) OIL & GAS ROYALTY OWNER \_\_\_\_\_  
 Address \_\_\_\_\_  
 12) COAL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_

8) SURFACE OWNER \_\_\_\_\_  
 Address \_\_\_\_\_  
 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 Name \_\_\_\_\_ Address \_\_\_\_\_

9) FIELD SALE (IF MADE) TO: \_\_\_\_\_  
 Address \_\_\_\_\_  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 Name \_\_\_\_\_ Address \_\_\_\_\_

10) OIL & GAS INSPECTOR TO BE NOTIFIED \_\_\_\_\_  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 Name \_\_\_\_\_ Address \_\_\_\_\_

15) PROPOSED WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_

16) GEOLOGICAL TARGET FORMATION, \_\_\_\_\_  
 17) Estimated depth of completed well, \_\_\_\_\_ feet  
 18) Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 19) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ No \_\_\_\_\_

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well		
Conductor							Kinda
Fresh water							Sizes
Coal							Depths set
Intermediate							Perforations:
Production							Top
Tubing							Bottom
Liners							

21) EXTRACTION RIGHTS

Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)  
 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: \_\_\_\_\_

My Commission Expires \_\_\_\_\_

Signed: \_\_\_\_\_

Its: \_\_\_\_\_

OFFICE USE ONLY

**DRILLING PERMIT**

Permit number: \_\_\_\_\_

19

Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires \_\_\_\_\_

Bond: \_\_\_\_\_

Agent: \_\_\_\_\_

Plat: \_\_\_\_\_

Casing \_\_\_\_\_

Fee \_\_\_\_\_

\_\_\_\_\_ unless drilling is commenced prior to that date and prosecuted with due diligence.

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.



Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs; "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

.....  
The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19\_\_\_\_ By \_\_\_\_\_  
Its \_\_\_\_\_