



IV-35 (Rev 8-81)

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APR 1 9 1984 State of Mest Airginia

OIL & GAS DIVISION Department of Mines DEPT. OF MINES Gil und Gas Division

Date 4-17-84	, +
Operator's Well No.	•
	Land Co.
	081 - 0622

WELL OPERATOR'S REPORT

OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production / Undergrou	/ Waste ind Storage	e Disposa e/ Deep	l/ p/ Sha	110w <u>x</u> /)
IOCATION: Elevation; 1881,42 Watershed Mg	reh Fork			
District: Marsh Fork County Ral			3 White	sville
	· V. 1 (3 1)			
COMPANY Columbia Gas Transmission Corp				
ADDRESS P. O. Box 1273, Charleston, WV	Casing	Used in	Left	Cement
DESIGNATED AGENT J. L. Weekley	Tubing	Drilling	in Well	fill up Cu. ft.
ADDRESS P. O. Box 1273, Charleston, WV	Size			
SURFACE CWNER Rowland Land Co.	20-16			
ADDRESS Rm. 301, 1033 Quarrier St., Chas.,	Cond.		24.2	35.10 cu
MINERAL RIGHTS OWNERROWLAND Land Co. 25301	x03x 10"3/4	84.3	84.3	to surfa
ADDRESS	9 5/8			292.50 c
OIL AND GAS INSPECTOR FOR THIS WORK Rue	8 5/8			to surface
Schoolcraft ADDRESSPineville W.Va.	7	2737	439	30 cu/ft
PERMIT ISSUED	5 1/2			
DRILLING COMMENCED 7-6-83	4 1/2	4011 (4011	120 cu/f
DRILLING COMPLETED 1-15-84	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Weir	•	Dept	h 3526	feet
Depth of completed well 3570 feet F	Otava	•		
Water strata depth: Fresh feet;	<u> </u>			7
Coal seam depths: 228'. 482'. 529'	Is coat i	serud umve	ad tu cue	area No
OPEN FLOW DATA	•			
Producing formation Gordon	Pay	zone dept	h 395	2 feet
Gas: Initial open flow - Mcf/d	Oil: Init	ial open	flow	Bb1/d
Final open flow ("Wet") Mcf/d	Fina	ul open fl		Blt
Time of open flow between initi	al and fir	al tests	6 hou	πs
Static rock pressure psiq(surface				• •
(If applicable due to multiple completion-				
Second producing formation Weir		zone depi	h 352	6 <u>i</u>
Gas: Initial open flow - Mcf/d			-	
Final open flow (265) Mcf/d				
Time of open flow between initi			· · · · · · · · · · · · · · · · · · ·	
Static rock pressure 580 psig(surface				
•	MAY 7 19		ue on re	

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

Gordon Wet - Plugged back to 3570' on 2-22-84. Completed Weir on 2-24-84

Perforations at (3368'-3354') 2 foot intervals. Acidized with 500 gallons 15% Mud Acid with 61,000 pounds of 20/50 sand. SEMIN TO TOUR

WELL LOG

Sand Coal Sand Slate Sand Black Lime Slate Sand Coal Sand Coal Slate	0' 68 68 80 89 165 165 177 177 220 220 228 228 238 248 345 345 393 398 398 477 477 482 490 526 529 532	Lost water @ 208'-210'
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Slate Shells	880 . 1120	
	20 1170	project to the major.

(Attach separate sheets as necessary)

Columbia Gas Transmiss	ion Corp.
Well Operator	. wil district Villes
By: Kweekle	y
Date: 4-18-84	Control Control

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 that, encountered in the decord of the content of of th

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Slate Shells Sand Shells Sand Gritty Shells Sand Slate Sand Hard Lime Slate Red Rock Lime Shells Red Rock Sand Lime Red Rock Slate Red Rock Lime Slate Red Rock Slate Red Rock Slate Red Rock Lime Sand Lime Sand Slate Black Lime Maxon Sand Slate Black Lime Black Lime Injun Sand Slate Slate Sig Lime Black Lime Injun Sand Slate Slat	1170 1309 1441 1448 1460 1493 1520 1565 17756 1793 1836 1843 1957 2015 2115 2165 22165 2216 2236 2236 2241 22448 2452 24481 2655 2715 2767 2787 2787 2857 2857 2857 2857 2857 285	1309 1441 1448 1460 1493 1520 1565 1756 1793 1836 1843 1957 2051 2115 2165 2185 2194 2226 2236 2276 2281 2361 22412 2448 2452 2448 2452 2481 2655 2715 2723 2762 2787 2857 2898 3290 3375 3415 3522 3754 3952	Show of gas
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Line Item Explanation

- Date of Application 1)
- Your well name and number 2)
- 3) To be filled out by office of oil & gas
- "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced 4A) 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.
- "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 then six thousand feet, whatever is shallower.
 - Where well is located
- 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.
- Optional 9)
- See Reg. 7.01 relating to code §22-4-1k 11)
- "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to 12) or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
 - 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
 - Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in 18) 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
 - Code 22-4-11(c) In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a 21) 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).
 - 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.
 - 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.

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		WAIVER		
amined this proposed well lo added to the mine map. The	cation. If a mine ma undersigned has no	ap exists which covers the objection to the work pro	of the coal under this we area of the well location, the well posed to be done at this location, inia Code and the governing regularity.	l location has been provided, the well
Date:	, 19	By		