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## State of West Virginia Division of Environmental Protection Section of Oil and Gas

Permitting Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: HAMER, JIM C. COMPANY

LOCATION: Elevation: 810.10

Operator Well No.: 12383

Quadrangle: BLUE CREEK District: BIG SANDY

County: KANAWHA 13200 Feet South of 38 Deg. 27Min. 30 Sec. Longitude 1100 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION

P. O. BOX 1273

CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY

01/13/97 07/18/97 Permit Issued: Well work Commenced: 10/08/97

Well work Completed: Verbal Plugging

Permission granted on:

Rotary X Cable Rig
Total Depth (feet) 5320 5320 Fresh water depths (ft)

Salt water depths (ft) 819'

Is coal being mined in area (Y/N)?N Coal Depths (ft):

		•	
Casing	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up  Cu. Ft.
Size		10.49	to surface
13 3/8",	48 1ь, н-40	411	335sx
9 5/8",	36 1ь., н-40	2030 .	to surface 550SX
		A 23 . A .	
7", 23	1b, N-80,	5174	355SX
2 3/8",	4.7 1bs.,J-55	5187*	

## OPEN FLOW DATA

Producing formation ORISKANY S	TORAGE Pay zone depth (ft)
Gas: Initial open flow	MCF/d Oil: Initial open flow Bbl/d
Final open flow 1	MCF/d Final open flow Bb1/d
Time of open flow between	n initial and final tests Hours
Static rock Pressure	osig (surface pressure) afterHours
Time of open flow between	Pay zone depth (ft)  MCF/d Oil: Initial open flow  MCF/d Final open flow  n initial and final tests  psig (surface pressure) after  Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For:	COLUMBIA	GAS TRANSMISSION	CORP.
	By: Km	bllip	JAN 23-1998
	Date: \	1-15-98	7.57

Stimulated ORISKANY with  ${\rm N}^2$ -Assist Deltafrac using 501 bbls water, 169 MSCF  ${\rm N}^2$ , and 28,200 lbs 20/40 sand.

FO	RM	AT	I	ON	S	0
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1386' - 1539' BIG LIME SALT SANDS 660' - 1150' 1284 - 1302 1324' - 1378' LITTLE LIME 1572 - 1784 c WEIR 1959' - 1969' SUNBURY ONONDAGA 5063' - 5191' 5191' - 5236' ORISKANY 5236 HELDERBER@

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION 10450 Lolumbia 1) Well Operator: ransmission Operator's Well Number: 12383 2) 3) Elevation: 790' Dasued 01/13/97 4) Well type: (a) Oil / or Gas X / If Gas: Production\_\_/ Underground Storage\_X/ Deep<u>x</u>/ Shallow 1175 Proposed Target Formation(s): Oriskany Proposed Total Depth: 5290 Approximate fresh water strata depths: N(A Approximate salt water depths: N/A 9) Approximate coal seam depths: Does land contain coal seams tributary to active mine? Yes\_\_/ NoX/ 10) Proposed Well Work: Drill, complete, and stimulate a new storage well 11) In the Oristany Sandstone with the casing program listed bylow CASING AND TUBING PROGRAM TYPE **SPECIFICATIONS** FOOTAGE INTERVALS CEMENT Weight Left in For Fill-up Size Grade per ft. drilling well (cu. ft.) Conductor 400' 133/8 48 H-40 Fresh Water Circ. to Syrface Coal 95/2" 36 k-55 22*0*0' Intermediate 2*20*0 irc. to Surface N-80 517ď -23 5170 325 Jes Production 23/8 5170 5170 J-55 4.6 Tubing Liners PACKERS : Kind Sizes Depths set For Office of Oil and Gas Use Only | Fee(s) paid: | | Well Work Permit ( | Reglamation Fund Agent (Type)

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1) Date: 10/29/96

2) Operator's well number COCO-A WELL #12383

3) API Well No: 47 - 039 - 5118-T State - County - Permit

State - Office of Oil 2 VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

## NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner (s) to be served:	5) (a) Coal Operator:
a) Name <u>Jim C. Hamer Co.</u>	Name
Address P. O. Box 418	Address
Kenova, WV 25530	
b) Name	(b) Coal Owner (s) with Declaration
Address	Name Jim C. Hamer Co.
	Address P. O. 418
c) Name	
Address	
	Name
	Address
6) Inspector Carlos W. Hiviely	
Address 223 Pinch Ridge Road	(c) Coal Lessee with Declaration
Elkview, WV 25071	Name
Telephone (304) - 965-6069	
Telephone (304) - <u>300-0003</u>	
TO THE PERSON(S) NAMED ABOVE T	AKE NOTICE THAT:
10 THE PERSON (S) NAMED ADOVE !	ANC NOTICE THAT
Included is the lease or leases or ot	her continuing contract or
contracts by which I hold the right to ext	troot oil and use OP
X_Included is the information required by	Chantar 22 Article 6 Section
8 (d) of the Code of West Virginia (see pa	ige 2)
I certify that as required under Chapt	er 22 of the <u>west virginia Code</u>
I have served copies of this notice and a	application, a location plat, and
accompanying documents pages 1 through	on the above named parties, by:
Personal Service (Affidavit attached	1)
X Certified Mail (Postmarked postal	receipt attached)
Publication (Notice of Publication	attached)
	***************************************
have read and understand Chapter 22-6	and 38 CSR 11-18, and I agree
to the terms and conditions of any permi	t issued under this application.
I certify under penalty of law that I ha	ave personally examined and am
familiar with the information submitted on the	his application form and all
ramiliar with the information submitted on the	ms of these individuals immediately
attachments, and that based on my inqui	believe that the information
responsible for obtaining the information, I	delieve that the information
is true, accurate, and complete.	(1) Committee of C
I am aware that there are significant	penalties for submitting talse
-information, including the possibility of fine	and imprisonment.
CFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA  Well Operator By:	COLUMBIA GAS TRANSMISSION CORP.
STATE OF WEST VIRGINIA By:	LV.11Elellot
PATRICIA A. TURKETT \$ Its: St	orage Engineer / Well Services
	O. Box 1808
Mv Commission Expires August 12, 1997	. Albans, WV 25177-1808
	304) 722-8612
Subscribed and sworn before me this	day of Maceuller, 19/6
Paturia G. Zurlell	Notary Public
My commission expires	-12, 1997
my commission expired	· · · · · · · · · · · · · · · · · · ·