

19-Feb-97 API # 47- 39-05123 T

State of West Virginia JAN 2 1998 Division of Environmental Protection Section of Oil and Gas

Permitting Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: HUFFMAN, CHARLES E. ETAL Operator Well No.: 12381

LOCATION:

Elevation: 1,126.00 Quadrangle: BLUE CREEK

District: ELK

County: KANAWHA Latitude: 7780 Feet South of 38 Deg. 25Min. 0 Sec. Longitude 590 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: COLUMBIA GAS TRANSMISSION

P. O. BOX 1273

CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY

Permit Issued: 02/28/97 Well work Commenced: 06-23-97 Well work Completed: 08-01-97

Verbal Plugging

Permission granted on:___

Rotary X Cable Total Depth (feet) 5460 T Fresh water depths (ft)

Salt water depths (ft)

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

Casing	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	
Size	of the state of	करकृष्टी स	to surface
13 3/8",	48 1b., H-40,		
			to surface
9 5/8",3	5 1ь.,н-40	23291	575SX
			,
7", 23 1	b., N-80	5335'	325SX
2 3/8", 4	7 1b., J-55	4313*	
1			1

OPEN FLOW DATA

Producing formation ORISKAN	NY STORAGE Pay zone depth (ft)
Gas: Initial open flow	MCF/d Oil: Initial open flow	Bbl/d
Final open flow	MCF/d Final open flow	Bbl/d
Time of open flow be	tween initial and final tests	Hours
Static rock Pressure	psig (surface pressure) after	Hours
		
Second producing formatio	n Pay zone depth (
	MCF/d Oil: Initial open flow	Bbl/d
Final open flow	MCE/d Final open flow	Bbl∱d
	MCF/G FINAL OPEN LIOW	שאדורת
	tween initial and final tests psig (surface pressure) after	Hours 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: Known Coke .
	By: Metal
	Date: 1-15-98

Stimulated ORISKANY with N^2 -Assist Deltafrac using 591 bbls water, 274 MSCF N^2 , and 33,500 lbs. 16/30 sand.

Fine cross for the Manager to the final open flow

Stability Committee of the contribution of the figure of the contribution of the contr

Markita (1990) o Indo en Beller.

A CARREST POR SERVICE PROPERTY OF SERVICE PROP

FORMATIONS:

SALT SANDS 978* - 1478*

1588' - 1616' MAXTON

1642' - 1712' an EMB d

BIG LIME 1696' - 1838'

WEIR 1882' - 2080'

SUNBURY 2262' - 2272'

ONONDAGA 5272 - 5382'

5382' - 5432' ORISKANY

US-7 .

Ec-6 gada tak

HELDERBÜRG 5432'

(Ji) daabb sacrivet

to established white

woll mad thitle

Final Coen flow

e sik po kladit Sak ka

Tedia (expasso estima estas

FORM WW	-25	* .			·	•	Pageof	
	DIVIS	SION OF E	STAT NVIRONMEN	TAL PROTE		CE OF OIL	AND GAS	
			_		APPLICATI	704	-	()
	_	erator:		ia Gas	1 ransmis		7	258
	erator	's Well	Number:	12381		3)	Elevation	: 1126
	ll typ	e: (a)	oil/	or Ga	s <u>X</u> /	Daned	02/28/97	
23		(b)	If Gas:	Production	n/ Under	ground Stor	ageX/	
	(b) If Gas: Production_/ Underground Storage X / Shallow_/							
					iskany S	andstone	7.5	
Pro	oposed	Total D	epth: <u>5</u>	440	feet		0.	
7) Apj	proxim	ate fres	h water s	rata dep	ths: <u>N/A</u>		11 S	
8) Apı	Approximate salt water depths: N/A							
9) App	proxim	ate coal	seam dept	:hs:	N/A		<u> </u>	J 2
10) Doe	es lan	d contain	n coal sea	ams tribu	tary to act	ive mine?	Yes/ 1	No <u>X</u> /
					e, ad s			
12) Well in the Oristany Soudstone with cosing program as listed below. CASING AND TUBING PROGRAM On 11/1/11/11								
						= 4/1/1	/ (1//////	
TYPE		S	PECIFICAT		FOOTAGE 1	- 4/0U		EMENT
TYPE	en e		PECIFICAT	IONS Weight	FOOTAGE 1	NTERVALS Left in	Fill	-up
		Size		IONS Weight	FOOTAGE 1	NTERVALS	Fill	——————————————————————————————————————
Conducto		Size	PECIFICAT: Grade	Weight per ft.	FOOTAGE 1 For drilling	Left in well	Fill- (cu.	-up ft.) //3
Conducto			PECIFICAT: Grade	IONS Weight	FOOTAGE 1	Left in well	Fill	-up ft.) //3
Conducto	ater	Size	Grade H-40	Weight per ft.	FOOTAGE 1 For drilling	Left in well	Fill- (cu. 30Sf/l/s Circ. to S	-up ft.) 113 ourface 3-1122
Conducto Fresh Wa Coal	ater liate	Size	Grade H-40 K-55	Weight per ft.	For drilling 400'	Left in well 400'4 2500'4	Fill- (cu. 38SP/Bi Circ. to S 38CSP/B Circ. to S	up ft.) //3 ourface 3-//22/2
Conducto	ater liate	Size 133/8" 95/8" 7	Grade H-40 K-55 N-80	Weight per ft. 48 36 23	For drilling 400' 2500' 5370'	Left in well 400'4 2500'4 5370'4	Fill- (cu. 30Sf/l/s Circ. to S	up ft.) //3 ourface 3-//22/2
Conducto Fresh Wa Coal	ater liate	Size	Grade H-40 K-55	Weight per ft.	For drilling 400'	Left in well 400'4 2500'4	Fill- (cu. 38SP/Bi Circ. to S 38CSP/B Circ. to S	up ft.) //3 ourface 3-//22/2
Conductor Fresh Water Coal Intermed	ater liate	Size 133/8" 95/8" 7	Grade H-40 K-55 N-80	Weight per ft. 48 36 23	For drilling 400' 2500' 5370'	Left in well 400'4 2500'4 5370'4	Fill- (cu. 38SP/Bi Circ. to S 38CSP/B Circ. to S	up ft.) //3 ourface 3-//22/2
Conductor Fresh Water Coal Intermed Producti	liate	Size 133/8" 95/8" 7" 23/8"	Grade H-40 K-55 N-80	Weight per ft. 48 36 23	For drilling 400' 2500' 5370' 5370'	Left in well 400'4 2500'4 5370'4	Fill- (cu. 38SP/Bi Circ. to S 38CSP/B Circ. to S	up ft.) //3 ourface 3-//22/2
Conductor Fresh Water Coal Intermed Production Tubing Liners PACKERS	liate ion : Kin	Size 133/8" 95/8" 7" 23/8"	Grade H-40 K-55 N-80	Weight per ft. 48 36 23	For drilling 400' 2500' 5370' 5370'	Left in well 400'4 2500'4 5370'4	Fill- (cu. 38SP/B1 Circ. to S Circ. to S	up ft.) //3 ourface 3-//22/2
Conductor Fresh Water Coal Intermed Production Tubing Liners PACKERS	liate ion : Kin	Size 133/8" 95/8" 7" 23/8" des_ths set_	Grade H-40 K-55 N-80 J-55	Weight per ft. 48 36 23 4.6	For drilling 400' 2500' 5370' 5370'	Left in well 400'4 2500'4 5370'4 5370'(Fill- (cu. 38SP/B1 Circ. to S Circ. to S	up ft.) //3 ourface 3-//22/2
Conductor Fresh Water Coal Intermed Production Tubing Liners PACKERS	liate ion : Kin	Size 133/8" 95/8" 7" 23/8" desths set	Grade H-40 K-55 N-80 J-55 or Office	Weight per ft. 48 36 23 4.6	For drilling 400 2500 5370 5370 0.44.70	Left in well 400'4 2500'4 5370'4 5370'(Fill- (cu. 38Sf/g) Circ. to S 38Sf/g	up ft.) //3 ourface 3-//22/2
Conductor Fresh Water Coal Intermed Production Tubing Liners PACKERS	ater liate ion : Kin Siz Dep	Size 133/8" 95/8" 7" 23/8" desths set	Grade H-40 K-55 N-80 J-55 or Office	Weight per ft. 48 36 23 4.6 of Oil a ork Permit	For drilling 400 2500 5370 5370 0.44.70	Left in well 400'4 2500'4 5370'4 5370'(Fill- (cu. 38Sf/g) Circ. to S 38Sf/g	-up ft.) //3 surface /////

Page 1 of__ Form WW2-A (6/94) File Copy F33 +3 107

1) Date: 10/29/96

2) Operator's well number COCO-A WELL #12381

3) API Well No: 47 - 039 - 5123-T State - County - Permit

STATE OF WEST 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: a) Name (see attached sheet)	5) (a) Coal Operator: Name
Address	Address
b) Name Address	(b) Coal Owner (s) with Declaration Name (see attached sheet) Address
c) Name	
Address	Name
	Address
6) Inspector Carlos W. Hiviely Address 23 Pinch Ridge Road	(c) Coal Lessee with Declaration
Elkview, WV 25071 Telephone (304) - 965-6069	Address AMA AMA AMAC
	Sylving Survey - Mour
TO THE PERSON (S) NAMED ABOVE TA	AKE NOTICE THAT: M AM CULT
Included is the lease or leases or oth contracts by which I hold the right to extract X Included is the information required by 8 (d) of the Code of West Virginia (see page)	ract oil and gas <u>OR</u> Chapter 22, Article 6, Section
8 (d) of the Code of West Virginia (see page 1)	ge 2)
I certify that as required under Chapte I have served copies of this notice and accompanying documents pages 1 through of	oplication, a location plat, and
Personal Service (Affidavit attached)	
X Certified Mail (Postmarked postal r	
Publication (Notice of Publication a	ttached) *
I have read and understand Chapter 22-6 to the terms and conditions of any permit	issued under this application.
I certify under penalty of law that I have familiar with the information submitted on the	ve personally examined and am
attachments, and that based on my inquir	is application form and all
responsible for obtaining the information, I b	elieve that the information
is true, accurate, and complete.	
I am aware that there are significant	penalties for submitting false
information including the possibility of fine a	and imprisonment.
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRIGINIA PATRICIA A. TURKETT OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRIGINIA PATRICIA A. TURKETT Its: Sto	COLUMBIA GAS TRANSMISSION CORP.
STATE OF WEST VIRGINIA	rage Engineer / Well Services
Address P. C.	D. Box 1808
V''\	Albans, WV 25177-1808
Telephone	04) 722-8612
Subscribed and sworn before me this 472	day of <u>Mouleuler</u> , 19 <u>96</u>
Tatiena (1. Zur	Rett Notary Public
My commission expires Qu(u	J 12, 1997