



DEPARTMENT OF MINES

MAR 3 1 1980

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 March 31, 1980
Surface Owner Lucy Pancake, et al	Company Columbia Gas Transmission Corp
Actor P.O.Box 90, New Creek W. Va 2674	
Mineral Owner Same as above	
Address	
	Well No. 20124 Elevation 1287.51
Address	37 0 1
Coal Operator Unoperated	-
Address	
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
	SPECTOR BE NOTIFIED Robert Stewart
for <u>Drilling</u> . This permit shall expire if	7777 D O Down 2/5 James I 1 1/2
operations have not commenced by 12-3-80	DRESS P. O. Box 345, Jane Lew, W.Va.
	ONE 884-7782
GENTURMENICOT - Oil & Gas Division	
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 day	
Pancake et almade to Columbia Gas Tran	S. and recorded on the day of
19, inMineral County, Book 218	Page <u>588</u>
X NEW WELLDRILL DEEPER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED	
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby no to make by Section 3 of the Code, must be received by, or file	otified that any objection they wish to make, or are required ed with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed by r or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Depa	registered mail, or delivered to the above named coal operators day
PLEASE SUBMIT COPIES OF ALL	Very truly yours.
GEOPHYSICAL LOGS DIRECTLY TO:	Sign Name) Well Operator
THE WILDSTALL CHOLOGICAL AND	P. O. Box 1273
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Address	
P. O. BOX 879 of Wall Operat	tor Charleston
MORGANTOWN, WEST VIRGINIA 26505 Well Operat	City or Town
AC-304 - 292-6331	West Virginia 25325
•	State
*SECTION 3 If no objections are filed or found by the De notice and plat by the department of mines, to said proposed location, if the filing of such plat, that no objections have been made by the coal ope and the well operator authorized to proceed.	partment of mines, within said period of ten days from the receipt of the department shall forthwith issue to the well operator a permit reciting trators or found thereto by the department and that the same is approved
BLANKET BOND	47-0057-0037 PERMIT NUMBER
"I have read and understand the reclamation requirements as set fo Chapter 12. Article 4: Section 12-b and will carry out the specified requirem	rth in nents."

cor, Exploration & Development

G. Survey

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	X DRILL	DEEPEN	DA COLLO DE CONTRACTOR A COLLO DE COLLO
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGENT	
NAME		NAME	
ADDRESS			
TELEPHONE		TELEPHONE	
ESTIMATED DEPTH OF COMPI	LETED WELL: 8650'		CABLE TOOLS
PROPOSED GEOLOGICAL FORM			CABLE TOOLS
	*	OMB STORAGE	DISPOSAL
•	RECYCLU	NG WATER RE	OODOTHER
TENTATIVE CASING PROGRAM CASING AND TUBING		LEFT IN	CEMENT I H I UP
SIZE:	DRILLING	WFLL.	OR SACKS - CUBIC FT.
20 - 16	90 ' 500 '		
9 - 5/8			
8 - 5/8	2500	, , , , , , , , , , , , , , , , , , ,	The second secon
7		The state of the s	
5 1/2	8650'	i e	
4 1/2		The second secon	
3			Post Ton
2			Perf. Top Perf. Bottom
iners			Perf. Top
			Perf. Bottom
O DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED OFRACTURE - STIMULATE: OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT A OIL AND/OR GAS WELL ORI ING ORIGINAL PERMIT NUM	OF OG - 1, \$100.00 PERMIT F OG - 1, SHOWING ORIGIN D 1929, A PERMANENT COM O. IGINALLY DRILLED BEFORM AND ORIGINAL WELL RECOMMENT ON AND IGINALLY DRILLED ON AND IGINALLY DRILLED ON AND IGER, AND PERFORMANCE BE	FEE, PERFORMANCE BO TAL PERMIT NUMBER AND THE PLAT AND THE PLAT AND THE PLAT AND THE JUNE 5, 1929, FIVE (5) CORD. D/OR AFTER JUNE 5, 1929, FOND.	ND AND PERMANENT COPY O PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD OPIES OG - 1, PERFORMANCE FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-
		THE STATE OF THE PARTY NAMED AND ADDRESS OF THE PARTY NAMED AN	The second secon
			ued within ten days of receipt
AIVER: I the undersigned, Agent this lease have examined	and place on our mine maps	s this proposed well location	n.
We the	mplied with all rules and regula	ve no objections to said well tions in Articles 4, 5, and 7,	being drilled at this location, Chapter 22 of the West Virginia
			en e
		For	Coal Company
			AAN DE PROPERTY



Gil und Gas Zivision

Date_	Febru				
Operat	or's				**************************************
Well 1			124-1		
Farm			ncake	<u> </u>	
API No	47	a	057		0037

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Threebologishing do do do de desd ((If "Gas," P	$\frac{\Delta}{1}$	ou\ Tdmo	/ Underg	LOI TOI	ı/ Was ınd Stora	te Disposa ge/ Dee	$\frac{1}{2}$ / Sha	illow/)
LOCATION:	Elevation:	1250'	Wat	ershed	As	sh Spring	Run		
	District: New							e Anito	ch 7-1/2'
							_		
COMPANY (COLUMBIA GAS TRAN	ISMTSSTOR	N CORP	ORATION					
	2. 0. Box 1273, 0								I Comont
DESIGNATED			0119 111			Casing	Used in	I	Cement fill up
ADDRESS						Tubing	Drilling	in Well	Cu. ft.
SURFACE OW	NER Lucy Pano	ake				Size		-	
ADDRESS	Anterior Commission Commission Commission Commission Commission Commission Commission Commission Commission Co					Cond.	74	74	102
MINERAL RI	GHIS OWNER Lucy	Pancaka				13-10X	483	483	372
ADDRESS		Tancake				9 5/8	2425	2425	1100
	S INSPECTOR FOR	THIS W	DBK	Pohort		8 5/8			
	ADDRESS We			Robert		7			
PERMIT ISS						5 1/2		1688	312
	OMMENCED July	. 21 198	? ∩			4 1/2			
	CMPLETED Sept			Λ		3			
	BLE: PLUGGING					2			
CONTINUOUS	PROGRESSION FR VERBAL PERMIS	OM DRILL	LING ()B		Liners used			
GEOLOGICAL	TARGET FORMATION	ON	Oris	kanv	:			h 750	
Depth	of completed w	ell	9775	fæt	P/	o+amı X		h 753	
Water	strata depth:	Fresh	100	feet.		3=1+	/ Cable	: roots_	
Coal s	seam depths:	•				Te cal	being mine	d in the	
open flow i					WEDGEN CO.		being nune	o ni die	area:
		0	/** **	, ,			_		
Gass	cing formation_	oriskan	7/HeI	lerberg		Pay	zone dept	h 9210	feet
	Initial open flo	.7	000	MCI/d	Ĺ)ll: Ini	tial open	flow	Bbl/d
	Final open flow	~	, <u>, , , , , , , , , , , , , , , , , , </u>	_mci/a		Fin	al open flo	OW	Bbl/d
Statio	The or of	Ser LION	v betw	æen ini	tla	u and fi	nal tests_	hou	rs
(If or	rock pressure	7 + 2	psi	.g (surra	œ	measurem	ent) after	hour	s shut in
	oplicable due to								
Gas	I producing for		. Keyse	er Helder	bei	rg Pay	zone depti	n 9126	feet
- marines (i)	Initial open flor	.7	200	_MCI/d	, -	ul: Init	ual open	flow	Bbl/d
	Final open flow	× = = = = = = = = = = = = = = = = = = =	0	_mci/d	 	ll: Fina	al open flo	W	Bbl/d
Statio	Time of or	en ITOM	, petw	een ini	tia -	⊥ and fir	mal tests_	hou	rs
···· ··· ··· ··· ··· ··· ··· ··· ··· ·	rock pressure	400	_hard	(SULTAC	e m	easurener	nt) after_		
							(Contin	na 📥 🏥	

(PEVERSE)

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

Perforated 9210 - 9391'

12 Shots

Treated w/1500 gals MCA 11/9/80 Treated w/10,000 gals MOD-202 11/10/80 Set Halliburton EZ Drill plug @ 9170' 11/12/80

Perforated 9126-9130'

9 Shots

Treated w/500 gals MCA and 9500 gals MOD-202 11/14/80 Acid Fractured w/1300 bbls Gel-Acid; 43,000# 80/100 sand WELL LOG

			REMARKS		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh		
			and salt water, coal, oil and gas		
Brallier	Surface	1984	Faulted several times		
Harrell	1984	2125	Tully 1s. @ 2073-76'		
Mahantango	2125	2254	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Upper Marcellus	2254	2342	AND THE PROPERTY OF THE PROPER		
Purcell 1s	2342	2450			
Lower Marcellus	2450	2637	Tiogo Bentonite 2620'		
Needmore Shale	2637	2777	110go bentonite 2020		
Oriskany SS	2777	2945			
Helderberg Grp.	2945	3634			
Tonoloway Ls	3634	7188	7100 is Tonolous Ton		
Helderberg	7188	8000	7188 is Tonoloway Top upside down		
Oriskany SS	8000	8230	8000' Helderberg top upside down		
Needmore Shale	8230	8430	8230' Oriskany top upside down		
Fault	8500	0430	8430 Needmore upside down		
Needmore	8558	0.007			
	i .	8694			
Oriskany	8694	8850	00501 11		
Helderberg 1s	8850	9350	9350' Helderberg top upside down		
Oriskany	9350	9534	9534' Oriskany top upside down		
Needmore	9534		·		
Fault	9602				
Needmore	9618	9775			
Oriskany	9775	T.D.	T.D. @ 9927' in Oriskany Sand		
	-				
			· •		

(Attach separate sheets as necessary)

	COLUMBIA	GAS	TRANSMISSION	CORPORATIO)N
Well	Operator	•			
	J(X) Wee	kle	v. Director	Drilling &	Operation

By: hweekle

Date: February 17 1982

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 and, encountered in the drilling of a well."

OIL AND GAS DIVISION WYDEPARTMENT OF MINES

form oc.a

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

N/A			Col	umbia	Gas Transm	ission C	orporatio	
COAL	derator or owner		***************************************		NAME OF WELL O		orporació	
			P.0	. Box	1273, Char.	leston,	WV 25325	
N/A	addition and a second		Tob		COMPLETE ADD	DRESS		
All of the party of the columns of the same of the sam	PERATOR OR OWNER		reb	ruary	18 VELL AND LO	A 501 A 1	19 82	
			New	Creek		CATION		
Tarana Danas	ADDRESS		***************************************	*****************		****	District	
Lucy Panca	ake		Mine	eral			County	
	ాందా గుండాలు. జూరెందిన స <i>్</i> తాని మీది మీది కొన్నాడి.	•	777 17 A					
	ADDRESS	***************************************	Well No. 20124-T					
			Pano	cake			Farm	
STATE INSPECTOR S	SUPERVISING PLUGG	UNIO .	Robe					
		7.2.4 (V	*************	***************************************			***************	
(POLYMAN & SALESTANISM		AFFID.	AVIT					
STATE OF WEST	VIRGINIA,							
County of Mir		· SS:						
Michael	J. Akers, Jr.	, 	nd Ch	narles	D. Fordyce	2		
being first duly swe	orn according to law	w depose a	nd say th	at they	are experie	nced in th	e work of	
Dinsalue and plina	Oil and one realls and	· ·	7	~ 7	1.4 0	_		
- was commenced on i	the 47 Lil day of	January	<i>-</i>	, 19 82	and that the	ne well m	or placed	
and filled in the foll	lowing manner:			,	9	TE METT MS	rs hrn8Red	
BAND OR ZONE RECORD	FILLING	MATERIAL		P	LUGS USED		ASING	
PCRMATION					BIZE & KIND	cse	cse cse	
eyser Helderberg	Set @ 9170'			 	. EZ Drill	PULLED	LEFT IN	
eyser Helderberg	Set @ 9110'		-	·	EZ Drill			
126'- 9130'					ill Squeez	Δ		
				J	acker			
,	Pit Water						 	
-1/2" Casing Cut	56 sks Common C	ement		200 f	t. cement	79201	1688	
980'-7780'				Plug			1 2000	
pen Hole	Pit Water							
ottom of 9-5/8"							2425'	
380'-2380'	177 sks Common	Cement		500 f	t. Cement			
3-3/8" Casing	20			W-1114			4831	
urface Plug	38 sks Common c	ement		100 f	t. cement			
O' Casing				**************************************				
Judanis							74 *	
COAL SEAMS		***************************************						
				۸۵	DESCRIPTION		ENT	
EC)				AS pr	escribed by	y Law		
E)			II					
E) E)								
and that the work of	f plugging and filli	ng said we	ll was co	omplete	ed on the	llth	day of	
and that the work of	, 19	ng said we	ll was co	omplete	d on the	llth	day of	
and that the work of February And further depo	, 19	- , -	Il was co	omplete hael	d on the	llth	day of	