







Deep Wall

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELL RECORD

Permit No. Kan 1243 Clendenin Quad. Company Address Farm Location Well No. District Surface Mineral Commenced Completed Not shot Open flow Volume Rock Pressure Fresh Water	Box 1913 Robert A Blue Cre 2-A (1 Elk K Mrs. Hes 127 Alde Nov. 1,1 June 28, 46/10ths 9, 248,0 1500 lbs	Sach Elev. 859.2° GR Ianawha County Ster N. Brown et al erson St., Charleston 1, 945 1946 M in 6 5/8° 000 C.F. 24 hrs. blr. per hr.	GASIN 16 16 13 3/8 751 10% 141 8 5/8 206 6 5/8 501 2 3/8 513	751 6 1416 5 2065 9 5019 0 51 30
Clay Sand Slate Sand Slate & Shells Lime Slate & Shells Lime Slate & Shells Lime Coal Slate Lime Coal Lime Slate & Shells Coal Slate & Shells Lime Sand Slate Sand Slate Sand Slate Lime Slate L	0 16 35 70 90 120 138 170 193 260 285 299 417 427 475 475 494 554 559 564 712 3984 1255 1360 1392 1416 1530 1392 1416 1530 1393 1416 1530 1595 1603 1812 1812 1812 1812 1812 1812 1812 181	16 Lime 35 Slate & Shells 70 Lime Blue 90 Slate & Shells 120 Shale Brown 130 Slate Wh 148 - Shale Bk 170 - Corniferous Lim 193 - Oriskany Sand 260 TOTAL DEPTH 285 297 Gas 2065 show 299 Gas 5131-5136 9 387 417 420 457 475 477 494 515 554 559 564 595 635 664 717 Oil 670 show 723 984 994 1237 1243 1255 1326 1355 1370 1380 1392 1402 1416 1530 Gas 1530 show 1595 Gas 1566 show 1603 1812 Gas 1640 show 1820 Gas 1690 show 1840 Gas 1795-1808 sh 1980 1990 2002 2060	248 MCF	2075 2305 2335 4175 4190 4963 5008 5129 5127



STATE OF WEST VIRGINIA DEPARTMENT OF MINES



APR 9 1975

OL & GAS DIVISION DEPT. OF MINES

Oil and Gas Division

OIL AND 945 WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES, Charleston, W. Va.	DATE April 7, 1975
Surface Owner B. B. Brown, Jr., Trustee, et al	Company Columbia Gas Transmission Corp.
Address P.O. Box 2746, Charleston, W. Va. 2533	Address 1.0
Mineral Owner Same as above	Farm Robert A. Marshall Acres 787
Address	Location (waters) White Oak Fork
Coal Owner Same as above	_ Well No. X-52 A 7071* Elevation 859.2
Address	District E1k County Kanawha
Coal Operator Not Operated	- Quadrangle Blue Creek
Address	
THIS PERMIT MUST BE POSTED AT THE WOLLD LIE	, and the second
All provisions being in accordance with Chapter 22.	
of the W. Va. Code, the location is hereby approved	
for fracturing This permit shall expire if	
operations have not commenced by 8-10-75	
There & Jane	INSTECTOR TO BE NOTHED Martin Nichols
Pendly Director - Of & Ges Division GENTLEMEN:	Clendenin, W. Va. PH: 548-6993
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 de	orp. and recorded on the 26th day of September
	-
NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DRILLED	BEFORE JUNE 5, 1969.
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 n to make by Section 3 of the Code, must be received by, or fil	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 or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Dep.	registered mail, or delivered to the above named coal operators
PLASE SUBMIT COPIES OF ALL	Very truly your first the state of the state
CTODUVCIONI IOCC DIDICTIV TO:	Sign Name)
West Virginia Geological and Economic Survey	Weil Operator P.O. Box 1273
P. O. Pox 879 Morgantown, W. Va. 26505 Address	Street
MC 304-296-4461 Well Opera	Charleston
	West Virginia 25325
	State

*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting, the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

*The United Carbon Co. well Number 2-A-1326, purchased 5-1-50

KAN-1243-TRAC

PERMIT NUMBER

	•			•	
	IS AN ESTIMAT	E ONLY			
ACTUAL INFORMATION	THE BE SUBMITTE	D ON OG	-10 UPON	COMPLETION	
			**		
PROPOSED WORK ORDER TO	DRILL	DEEPEN	XF	RACTURE KKMKR	MAXE
DRILLING CONTRACTOR: (If Keyer))	RESPONSI	BLE AGENT	:	
NAME		NAME	W. H. Ch	apman	

NAME			napman	
ADDRESS		ADDRESS P.O. Box	t 610,Clendenin,W.Va. 2504	
TELEPHONE		TELEPHONE 304 965-3317		
ESTIMATED DEPTH OF COMPLE	ETED WELL: 5157	ROTARY	CABLE TOOLS X	
PROPOSED GEOLOGICAL FORM	MATION: Oriskany	***		
TYPE OF WELL: OIL_	GAS X	COMBSTORAG	E X DISPOSAL	
		*	OODOTHER	
•				
TENTATIVE CASING PROGRAM	:			
интания подання под	USED FOR	processor progress consist assessmentation of the section processor extended announcement and consistency and	CEMENT FILL UP	
SIZI:	DRILLING		OR SACKS - CUBIC FT.	
16	16	16		
13-3/8	751	751		
9 - 5/8				
8 - 5/8	2065	2065		
6-5/8	5009	5009		
	5142			
	2344		100 Sacks Perf. Top 5117	
,			Perf. Bottom 5129	
Liners			Perf. Top	
			Perf. Bottom	
APPROXIMATE COAL DEPTHS S COAL BEING MINED IN THE TO DRILL: SUBMIT FIVE (5) COPIES	297-299, 417-420, E AREA? No	475-477, 554-559 BY WHOM?	FEET BOND AND PERMANENT COPY	
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Official Title



DEC 1 5 1994

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: BROWN, JAMES F, III Operator Well No.: 7071

LOCATION: Elevation: 859.00 Quadrangle: BLUE CREEK

10/11/94

District: ELK County: KANAWHA Latitude: 3600 Feet South of 38 Deg. 25Min. 0 Sec.

Longitude 10000 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

09/20/94 Permit Issued:

Well work Commenced:

Well work Completed: 10/12/94

Verbal Plugging

Permission granted on: N/A

Rotary Cable

Total Depth (feet)

5,157 Fresh water depths (ft) 198, 808

Salt water depths (ft) 994

Is coal being mined in area (Y/N)? N

Coal Depths (ft): 297-299 417-420 475-477 554-559

Casing	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	
Size			
13 3/8	751	751 .	Unknown
10_3/4	1,416	1,416	Unknown
8 5/8	2,065	2,065	Unknown
7	5,007	5,007	10 sks_
4 1/2	5,126	5,126	100 sks

OPEN FLOW DATA

Producing formation Oriskany Sandstone	Pay zone depth (ft)5108'-5157'
Gas: Initial open flow 20,000 MCF/d Oil:	Initial open flow Bbl/d
Final open flow 27,000 MCF/d	Final open flow Bbl/d
Time of open flow between initial	and final tests 385 days NXXXX
Static rock Pressure 1,615 psig (surf	ace pressure) after 62 days M&XXXX
Second producing formation	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 between initial	and final tests 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.

Static rock Pressure psig (surface pressure) after _____

	R. L. Coty, Manager, Well Services
For:	COLUMBIA GAS TRANSMISSION CORP.
	P-1 / In
	By:
	Date: 12/13/94

- 1) Well was originally perforated 5,114' to 5,126' in the Oriskany Sandstone. Well was reperforated in a dry (natural gas filled) wellbore from 5,110' to 5,127' in the Oriskany Sandstone. Work was performed using a logging truck and a wireline lubricator.
- 2) Geologic record remains as is originally on record.

039-1243 W

Isrued 9/20/94 Expues 9/20/96

FORM WW-2B

SEP 0 7 1994

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
Office of Oil & WELL WORK PERMIT APPLICATION

•	2011100			APPLICATION		. 8
) Well Ope:	rator:	COLUMBIA G	GAS TRANSMIS	ISON CORP. /	0450 (4)	258
						evation: 859
) Well type	e: (a) (Dil_/	or Gas	<u>X</u> /		
	(b)	If Gas: P	roduction	/ Undergr	ound Storage	
			•	X/475		w/
EXISTING				ORISKANY SAND	STONE	
	Total D	epth:	5150	feet		
) Approxim	ate fres	h water st	rata dept	hs: 198',	808'	
B) Approxim	ate salt	water dep	oths:	9941		A ANALYSIA AND ANALYSIA ANALYSIA AND ANALYSIA
)) Approxim	ate coal	seam dept	hs: 297'-2	<u> 299', 417'-420</u>	475'-477',	554'-559'
lO) Does lan	d contai	n coal sea	ams tribut	ary to acti	ve mine? Y	es/ No <u>X</u> _/
ll) Proposed	Well Wo	rk: CLEAN ORISKA	OUT SALT AND NY FROM 5108	DEBRIS TO TO 3'-5126' (NEW	TAL DEPTH; RE- PERFORATIONS:	-PERFORATE THE 5108'-5114').
12)		CASINO	S AND TURI	NG PROGRAM		
TYPE	S			FOOTAGE IN	ITERVALS	CEMENT
	- Distriction		Weight	For		Fill-up
	Size	Grade		drilling		Junior Salo
Conductor					Control !	0000
Fresh Water	13-3/8"	UNK.	UNK.	751'	751	' UNK.
Coal	10-3/4"	UNK.	UNK.	1416'	1416	UNK.
<u>Intermediate</u>	8-5/8"	UNK.	UNK.	20651	2065	UNK.
INTERMEDIATE	7"	UNK.	UNK.	5007'	5019 / 5007	10 SKS.
PRODUCTION TXXXISXIXHXXXX	4-1/2"	K-55, N-80	11.6#	5126	5130/ ₅₁₂₆	' 100 SKS.
Liners						
	nd_NONE					
	zes <u> </u>					
06/30		For Diviso	n of Oil	and Gas Use	Only	- 10
~		20/				a de la moco

		RECEIVED				
Page 1	lof	WV Division of Environmental Protection	1)	Date:	AUGUST 8, 199	4
Form V	VW2-A	SEP 0 7 1994	2)	Operator	's well number	<u> </u>
(09/87	•		3 /	ADI Well	No: 47 - 03	7071 9 - <u>1243 -</u> FRAC
ile (Copy	Permitting Office of Oil & Gas	3)	API WEII	State - Cour	ity - Permit
		STATE DEPARTMENT OF EN	OF WEST ERGY, DIV			
		NOTICE AND APPLI	CATION FO	R A WELL	WORK PERMIT	
		vner(s) to be ser			oal Operator:	
	(a) Name _ Address	JAMES F. BROWN, III P. O. BOX 88 CHARLESTON, WV 2572	LIAL	Address .		
-	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CHARLESIUN, WV 25/2	<u>′1</u>	(b) Coal	Owner(s) with	h Declaration
				Name	JAMES F. BROWN	, III, ET AL
•				Address	P. O. BOX 88	
•	(c) Name				CHARLESTON, WV	25721
,	Address _			Name		
				Address		
6)	Inspector	CARLOS HIVELY		(c) Coal	Lessee with	Declaration
,	Address _	223 PINCH RIDGE RO	<u> </u>	Name		
		ELKVIEW, WV 2507	1	Address		
	Telephone	(304) - <u>965-606</u>	9	***************************************		
contr X Secti	acts by w Included on 8(d) o I certify e served panying d Pers X Cert Publ	is the lease or lead the resistance information for the Code of Westhat as required copies of this not ocuments pages lead on al Service (Affinited Mail (Postmoication (Notice of the compand of the com	ight to on require t Virgin under Contice and through idavit a marked poof Publice	extract of the contract of the	il and gas OR pter 22B, Art age 2) B of the West ion, a location above named ipt attached)	icle 1, Virginia Code on plat, and parties,by:
famil attac respo	e terms a I certify iar with the character accuracy accur	nd conditions of under penalty of the information s nd that based on robtaining the late, and complete	any perm law tha ubmitted my inqui informati	it issued t I have on this ry of tho on, I bel	under this a personally ex application for individual tieve that the	pplication. amined and am orm and all s immediately information
	I am awar	e that there are	signific	ant penal	ties for subm	ntting false
ıntor		ncluding the poss	operator	or rine a	ING IMPLISONME SIA GAS TRANSMIS	SION CORP.
STIPPA.	OFFICIAL NOTARY	PUBLIC By:	- The	hard	L. Colis	
Pian	STATE OF WES	T VIRGINIA Its:			SERVICES (/	
	MARY PA	a Avenue		BOX 1273 ESTON, WV	25325-1273	
	St. Albana, West By Commission Exp	Viginia 2011 Iras Oct. 10, 1504 } Telent	none <u>304-</u>			
ubs		sworn before me			Megust	, 19 <i>94</i>
		Mar	y Par	sons		Notary Public
My co	ommission	expires <u>Ull</u>	bler	10,19	94	

Page 1 of_ Form WW2-A (6/94) File Copy



1) Date: 10/29/96

Operator's well number COCO- WELL # 7071

3) API Well No: 47 - 039 - 01243 - D 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:	5) (a) Coal Operator:
a) Name <u>James F. Brown III - Trustee</u>	Name
Address P. O. Box 1793	Address
Charleston, WV 25326	(I) O I O I O I O I O I O I O I O I O I O
b) Name	(b) Coal Owner (s) with Declaration
Address	Name James F. Brown III - Trustee
	Address P. O. Box 1793
c) Name	Charleston, WV 25326
Address	Name
	Address
Or towards Corton M. History	(c) Coal Lessee with Declaration
6) Inspector Carlos W. Hiviely	Name
Address 223 Pinch Ridge Road	Address
Elkview, WV 25071	Address
Telephone (304) - 965-6069 TO THE PERSON(S) NAMED ABOVE	- PANDE STORY SURE
	TAKE MOTION THAT
TO THE PERSON (S) NAMED ABOVE	TAKE NOTICE THAT:
	other continuing contract or Office in fina City extract oil and gas OR or Chapter 22. Article 6. Section
Included is the lease or leases or	other continuing contract or 4
contracts by which I hold the right to C X Included is the information required by	extract oil and gas <u>OR</u>
A HICHGEG IS the Hillstriation required of	y 3.1.4, 1.1.4.5.5 c,
8 (d) of the Code of West Virginia (see	page 2)
I certify that as required under Cha	pter 22 of the <u>West Virginia Code</u>
I have served copies of this notice and	application, a location plat, and
accompanying documents pages 1 through	on the above named parties, by:
Personal Service (Affidavit attach	ed)
X Certified Mail (Postmarked postal	receipt attached)
Publication (Notice of Publication	attached)
I have read and understand Chapter 22	2-6 and 38 CSR 11-18, and I agree
to the terms and conditions of any per	mit issued under this application.
l certify under penalty of law that I	hous personally examined and am
certify under penalty of law that i	this application form and all
familiar with the information submitted on	uiis application form and an
attachments, and that based on my inc	urry of mose individuals infinediately
responsible for obtaining the information, I	believe that the information
is true, accurate, and complete.	e to de territation della a
I am aware that there are significan	penalties for submitting false
information, including the possibility of fine OFFICIAL SEAL WELL NOTARY PUBLIC STATE OF WEST VIRGINIA PATRICIA A TURKETT PATRICIA A TURKETT	and imprisonment.
OFFICIAL SEAL Well Operato	COLUMBIA GAS TRANSMISSION CORP.
NOTARY PUBLIC By:	
STATE OF WEST VIRGINIA PATRICIA A. TURKETT	Storage Engineer / Well Services
\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	P. O. Box 1808
CHARLESTON WEST WAGINIA 25325-1273	St. Albans, WV 25177-1808
My Commission Expires August 12, 1997 Telephone	/(304) 722-8612
Subscribed and sworn before me this	day of Mullelle , 1996
\mathcal{A}_{\perp} \mathcal{A}_{\perp}	44
Patura V. Jusk	Notary Public
My commission expires	ust 12,1991

Offica of OII &

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

Well Operator's Report of Well Work

Farm name: BROWN, JAMES F. III

Operator Well No.: COCO 7071

LOCATION: Elevation: 859.00

Ouadrangle: BLUE CREEK

District: ELK

County: KANAWHA

Latitude: 3600 Feet South of 38 Deg. 25Min. 0 Sec. Longitude 10000 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

12/03/96 Permit Issued: 09/09/97 Well work Commenced: Well work Completed: 10/30/97

Verbal Plugging

Permission granted on:

Rig Rotary_ Rotary Cable R
Total Depth (feet) 5129' Fresh water depths (ft) Not Reported

Salt water depths (ft) Not Reported

Is coal being mined in area (Y/N)? N Coal Depths (ft): Not Reported

Casing	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size		*	
13 3/8"		751'	
10 3/4"		1416'	1
8 5/8"		2065	755X
7"		5019'	10SX
4 1/2",11	.6 1b, N-80	5129'	100sx

OPEN FLOW DATA

Producing formation	ORISKANY STORAGE	Pay zone depth	(ft)5110'-5129'
Gas: Initial open flow	MCF/d Oil:	Initial open flow	Bb1/d
Final open flow	MCF/d	Final open flow	Bbl/d
Time of open flow	between initial a	and final tests	Hours
Static rock Pressure	psig (surfa	ce pressure) after	r Hours
Second producing forma	tion	Pay zone depth	(ft)
Gas: Initial open flow	MCF/d Oil:	Initial open flow	Bb17d
Final open flow	MCE/a	Final onen flow	Bbl/d
	between initial a	and final tests ace 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	A GAS	MRANSMISS	MOTE	CORP.	
			1-1-2-4-1		O111 .	
	() \					
	By:					
	Date:	1-15-9	6			
			·			

Replaced top joint of 4 1/2" casing and installed new 7" X 4 1/2" API 3000 wellhead. Stimulated ORISKANY with N-Assist Deltafrac using 453 bbls water, 129 MSCF N², and 27,600 lbs. 20/40 sand.

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