



Date JUNE 23,1945 Same 1" = 1320"

WELL LOCATION MAP

+ Denotes location of well on United States From Fabric Maps, scale 1 to 62,500, lattice and longitude (nes being represented to porder lines as shown.

- Usintes on in a space: bonda 192

Deep Well

# WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELLRECORD

Permit No. Kan 1235					Well
Charleston Quad.	0.7	· Carbon C		CASING &	TUME
Company Address		Charlest	on 23, W.Va.	13 3/8 31	6 31 6
Farm			Acres 225½	103 32.75#	
Location	Wolfpan I		L AULUU AAU		79 pld.
Well No.		Elev. S	OT AS DE		95 9 Same
District		anawha Cot		41.1	03'8 Same
Surface			elyan, W.Va.	3½ 8.7#	
Mineral			L (for further	PACKE	
		s contact		Midget Bott	om Holo
Commen <b>c</b> od	8-7-45			Size 7"	
Completed	11-20-45			Dopth 5051'	SLM
Date shot			L60' SLM to 5194'SLM		
alpide to		Atlas Ge	elatin		
Volume	5,034,000				
Rock Pressure Salt Water	1425 lbs.		TOCOS II M		
DET P WELFOL	1410, 111	rrring up;	1268 H.F.		
Clay	0	25			
S <sub>a</sub> nd	25	125	CEMENT RECORD:	Va au. ==	
Slate	125	130	10% casing not a		
Sand	130	150	8 5/8" casing not		
Slate	150	225	11-4-45 7" casing.		
Sand	225	245	and 2 bags Fibroto		
Slate	245	260	or returns. Delbo	ert nawson, o	emontor,
Red Rock	260	275	O *O * OO OI OW *		
Slate	275	400			
Lime	400	405			
Slate	405 420	420			
Sand Slate	580	580 695			
Sand	695	718			
Slate	718	7 39		garage and the second	
Sand	739	775	5038 516	> 7	
Slate	775	785	and the second		
Sand	785	838			
Slate	838	860			
Sand	860	875			
Slate	875	967			
Sand	967	1000			-
Slate	1000	1026			
-Salt Sand - Slate	1026 1608	1608			
Little Lime	1612	1612 1645			
Slato	1645	1651			
Dig Lime	1651	1792			
-Dig Injun Sand	1792	1830	Gas 1755 show		
Slate & Shells	1830	1834			
-Weir Sand	1834	1935			
Slate & Shells	1935	2165	Gas 2097: show		
Lime Shells	2165	2215			
Slate & Shells	2215	<b>3</b> 950			
Drown Shalo	3950	4024			
Slate & Shells	40243	4730	. همسرو المع	`	
Drown Shale White Shale	4730 4945	4945	Gas 4802° show		
Brown Shale	4945 49 <b>73</b>	4973			
-Corniferous Lime	5038	5038 5169	SLM		
-Orishany Sand	5169	5200	5169' SLM- 5163' D	N T N A	
Lime Shell	5200	5211	0.000 0000 0.000 D	1) ATT(1)	
Oriskany Sand	5211	5242			
TOTAL DEPTH		5242	Gas Pays: 5176-518	7 8	
			w. ad 50	_47	



IV-35 (Rev 8-81)

#### State of Mest Virginia

Bepariment of Mines Gil und Cas Livision

Date_	April	26,	1983		
Opera	tor's		~~		- 7
Well	No		337		
Farm	John I				_
API N	o. 47 ·	- 0:	39 -	1235	

### WELL OPERATOR'S REPORT OF

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

WELL TYPE: Oil/ Gas/ Liquid Injection (If "Gas," Production/ Undergro	on/Wast	ce Disposa ne <u>X</u> /Dee	1/ p/ Sha	illow/)
LOCATION: Elevation: 901.8' Watershed			•	
		Quadrangl	e Big Ch	rimney
COMPANY Columbia Gas Transmission Corporation				
Transmission Corporacion				
ADDRESS P.O. Box 1273 Charleston, WV 25325	Caşing	Used in	Left	Cement fill up
DESIGNATED AGENT E. M. Williamson	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box 1273 Charleston, WV 25325	Size			
SURFACE OWNER Lee Jarrett, Jr.	20-16 Cond.			
ADDRESS P.O. Box 216 Elkview, WV 25071	13-3/8" 13-3/8"	Orig.	32 '	
WINERAL RIGHTS OWNER John R. Cork, Heirs	9 5/8			
ADDRESS Agent-Charleston National Bank	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Martin	7	Orig.	5096'	(Squeeze) 885'3"
Nichols ADDRESS P.O. Box 554 WV 25045	5 1/2			002.3
PERMIT ISSUED October 13, 1981		` <b>48</b> ***	5139.80	506 1211
RILLING COMMENCED (Reconditioning) 10-15-81	4 1/2		3139.80	7 296.3
ORILLING COMPLETED (Reconditioning) 7-27-82	2-3/8"		5/801	
F APPLICABLE: PLUGGING OF DRY HOLE ON	23/3	Tion.	all the second	<del>)</del>
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners	HAY ;	1983	
N	used	CT o cas		
EOLOGICAL TARGET FORMATION Oriskany Sand	D	EPT <sub>DEP</sub> E		
	Rotary		Tools	feet X
Water strata depth: Fresh feet;			10015	
Coal seam depths:	Te mal h	reet	din who	
PEN FLOW DATA	ra wer r	end ime	d Ti me	area:
Producing formation Oriskany Sand	Pay	zone depti	h 521	1 feet
Gas: Initial open flow NA Mcf/d	Oil: Init	ial open	flow	Bbl/d
Final open flow 280 Mcf/d	Fina	l open flo	₩	Bbl/d
Time of open flow between initi	al and fin	al tests_	hou	rs
Static rock pressure 734 psig(surface	measureme	nt) after	hour	s shut in
(If applicable due to multiple completion-	-)			
Second producing formation	Pay	zone depti	1	feet
Gas: Initial open flow Mcf/d	Oil: Init	ial open i	flow	Bbl/d
Final open flow Mcf/d	Oil: Fina	l open flo		Bbl/d
Time of open flow between initi	al and fin	al tests	hou	rs
Static rock pressurepsig(surface)	measuremen	t) after_	hour	s shut in
				May Graely
,		(CONTURA	e on reve	irse staet

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

Reconditioned: Pulled 5,204' of 2-3/8" tubing, cleaned hole to TD. Perforated 7" @ 1810'-1819' interval with 4" dynajet and squeezed with 885' cubic feet of cement. Ran 5,139.80' of 4½" casing and cemented with 596 cubic feet of cement. Ran 2-3/8" tubing (5180') inside of 4½". Well was not stimulated.

#### WELL LOG

FORMATION	COLOR	HARD	OR	SOFT	TOP	FEEL	BOTTOM	FEET	Including and salt w	REMA indic	RKS ation of al coal, oil	l fresl
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(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation	
Well Operator	
BV: 1. Villiam H. Foroko	
Date: 4-27-83	ar in the second of the second

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 drilling of a well."



### RECEIVED

OCT 2 1 1981

## OIL AND GAS DIVISION WY DEPARTMENT OF MINES

# DEPARTMENT OF MINES Oil and Gas Division

#### OIL AND GAS WELL PERMIT APPLICATION

	DATE October 13,	1981
Surice Owner Lee Jarrett, Jr.	Company Columbia Gas	Transmission Corp
Address P.O. Box 216, Elkview, W		
Mineral Owner John R. Cork, Heirs		
Address Agt. Charleston National Bank		
Cool Owner Same as Mineral Owner	Well No 7337	
Address Not operated		c <sub>∞nty</sub> Kanawha
-	Quadrangle Big Chimney	
Address PERMAN MUST BE POSTED AT THE WELL SITE	pro-figure-values de la configuración de la co	
mirrons being in accombance with Chapter 22,		
W. Va. Code, the location is hereby approved	INSPECTOR	
reconditioning. This permit shall expire if	TO BE NOTIFIED Mr. Mart	in Nichols
ons have not commenced by 7-9-82	DO Por 5	5/ Clandonin IMI OF
) ampainmental succession of the contraction of the	ADDRESS P.O. Box 5	194, Grendenin, WV 2
The San	<b>PHONE</b> 548-6993	• •
outy Director - Oil & Gas Division	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	
GENTLEMEN:		
The undersigned well operator is entitled to drill		
title thereto, (or as the case may be) under grant of	or lesse dated November 14	19 55 by John R. Cor
etal made to United Fuel Ga		
19 in <u>Kanawha</u> County, Book		
		Reconditions
NEW WELL DENKEMBER		Recondition: RACTURE OR STIMULATI
The enclosed plat was prepared by a registered ebave been notified as of the above date.		-
The enclosed plat was prepared by a registered e have been notified as of the above date.  The above named coal owners and/or operator and to make by Section 3 of the Code, must be received	e hereby notified that any objection they	wish to make, or are require
bave been notified as of the above date.  The above named coal owners and/or operator are to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were re-	e hereby notified that any objection they I by, or filed with the Department of Min mailed by registered mail, or delivered to t	wish to make, or are require les within ten (10) days. * the above named coal operator
have been notified as of the above date.  The above named coal owners and/or operator are to make by Section 3 of the Code, must be received	e hereby notified that any objection they I by, or filed with the Department of Min mailed by registered mail, or delivered to t iress	wish to make, or are require les within ten (10) days. * the above named coal operator
bave been notified as of the above date.  The above named coal owners and/or operator are to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were root coal owners at their above shown respective add.	te hereby notified that any objection they by, or filed with the Department of Min mailed by registered mail, or delivered to the Department of Mines at Charleston,	wish to make, or are require les within ten (10) days. * the above named coal operator
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The above named coal owners and/or operator are to make by Section 3 of the Code, must be received Copies of this notice and the enclosed plat were not coal owners at their above shown respective additionally with the mailing or delivery of this copy to	the hereby notified that any objection they is by, or filed with the Department of Min mailed by registered mail, or delivered to the Department of Mines at Charleston,  Very truly yours  (Sign Name)	wish to make, or are require les within ten (10) days. * the above named coal operator before, or on th West Virginia.  Manuam
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were record owners at their above shown respective add make day with the mailing or delivery of this copy to the supplies of the Copies of the Copies and the enclosed plat were record owners at their above shown respective add make day with the mailing or delivery of this copy to the Copies of the Copies	te hereby notified that any objection they it by, or filed with the Department of Min mailed by registered mail, or delivered to the Department of Mines at Charleston,  Very truly your (Sign Name)  Director, Dril	wish to make, or are require les within ten (10) days. * the above named coal operator before, or on the West Virginia.  Mannan West Virginia
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were not coal owners at their above shown respective add mame day with the mailing or delivery of this copy to the place of the copy to t	the hereby notified that any objection they is by, or filed with the Department of Minmailed by registered mail, or delivered to the Department of Mines at Charleston,  Very truly your Well Or Director, Dril P.O. Box 1273	wish to make, or are required the above named coal operators.  West Virginia.  West Virginia.  West Virginia.
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were record or coal owners at their above shown respective addrawne day with the mailing or delivery of this copy to the place of the copy to the cop	the hereby notified that any objection they it by, or filed with the Department of Minmailed by registered mail, or delivered to the Department of Mines at Charleston,  Very truly your Very truly your Very truly your Very truly Your Very Director, Dril P.O. Box 1273  Address of Charleston I	wish to make, or are required less within ten (10) days. *  The above named coal operator before, or on the West Virginia.  West Virginia.  The above named and Maintenance and Maintenance and Maintenance are the maintenance and maintenance and maintenance and maintenance and maintenance are the maintenance and maintenance and maintenance and maintenance are the maintenance and maintenance are the maintenance and maintenance and maintenance are the maintenance and maintenance and maintenance and maintenance are the maintenance and maintenance and maintenance and maintenance and maintenance and maintenance are the maintenance and ma
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were rown coal owners at their above shown respective add mame day with the mailing or delivery of this copy to please Submit Copies of All GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879	we hereby notified that any objection they is by, or filed with the Department of Minmailed by registered mail, or delivered to the Department of Mines at Charleston,  Very truly your Very truly your Very truly your Very truly Your Address Of Charleston, Well Operator Charleston, Well Operator Charleston, Well Operator	wish to make, or are require les within ten (10) days. * the above named coal operator before, or on the West Virginia.  West Virginia.  All Tator Ting and Maintenance  3 et W 25325-1273
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were rown coal owners at their above shown respective additioned day with the mailing or delivery of this copy to please Submit Copies of All Geophysical Logs Directly To:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879  MORGANTOWN, WEST VIRGINIA 26505	well Operator  we hereby notified that any objection they it by, or filed with the Department of Mines at Charleston,  Very truly your Very truly Your Very truly Your Address  of Charleston, Well Operator Charleston, Well Operator Charleston, Well Operator City or To	wish to make, or are required less within ten (10) days. *  the above named coal operator before, or on the west Virginia.  West Virginia.  Parator and Maintenance and Maintenance are well as a serior of the west within ten (10) days. *  West Virginia.  West Virginia.
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The above named coal owners and/or operator are to make by Section 3 of the Code, must be received.  Copies of this notice and the enclosed plat were record or coal owners at their above shown respective add same day with the mailing or delivery of this copy to the PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879	well Operator  we hereby notified that any objection they it by, or filed with the Department of Mines at Charleston,  Very truly your Very truly Your Very truly Your Address  of Charleston, Well Operator Charleston, Well Operator Charleston, Well Operator City or To	wish to make, or are required the above named coal operators.  West Virginia.  West Virginia.  Warren and Maintenance and Main
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The above named coal owners and/or operator are to make by Section 3 of the Code, must be received. Copies of this notice and the enclosed plat were received as their above shown respective additionable with the mailing or delivery of this copy to the Copy t	the hereby notified that any objection they it by, or filed with the Department of Minmailed by registered mail, or delivered to the Department of Mines at Charleston, while of the Department of Mines at Charleston, Wall Operator, Drill P.O. Box 1273  Address of Charleston, Well Operator Charleston, West Virginia Start of by the Department of mines, within said period location, the department shall forthwith issue to the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found thereto by the department of mines are the coal operators or found	wish to make, or are required less within ten (10) days. The above named coal operator before, or on the West Virginia.  West Virginia.  Warter and Maintenance and Maintenanc
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## THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	DRII 🔻	_XX F	Recondition
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGENT	
NAME		NAME Larry E. H	umphrevs
ADDRESS			1273, Charleston, WV
TELEPHONE		TELEPHONE (304)	
ESTIMATED DEPTH OF COMPL	ETED WELL:5250'	ROTARY	CABLE TOOLS XX
PROPOSED GEOLOGICAL FORM			
TYPE OF WELL: OIL_	GAS XX CO	MB. STORAGE	F XX Disposer
•	RECYCLIN	G WATER EL	DODOTHER
TENTATIVE CASING PROGRAM			
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FIFT UP OR SACKS - CUBIC ET.
20 - 16			
13 - 10 9 - 5/8		32'	
8 - 5/8			
7			
5 1/2		5,096	To surface
4 1/2		5 100 / \$	1000
3		5,100 (new)	1,000'
2		5,200	Perf. Top
Liners			Perf. Bottom Perf. Top
			Perf. Bottom
MUST ALSO BE SUBMITTED	F OG - 1, SHOWING ORIGINA 0 1929, A PERMANENT COP	AL PERMIT NUMBER AN Y OF THE PLAT AND T	D PERFORMANCE BOND. ON HE ORIGINAL WELL RECOR
O FRACTURE - STIMULATE:			
OIL AND/OR GAS WELL ORI	GINALLY DRILLED ON AND BER, AND PERFORMANCE BO	RD. /OR AFTER JUNE 5, 1929 OND.	FIVE COPIES OG - 1. SHOW
The following waiver must be ereof.			
AIVER: I the undersigned, Agent this lease have examined	for	_ Coal Company, Owner	or Operator of the coal unde
We the	Coal Company have	no objections to said we	Il heing drilled at this leasting
			• • • • • • • • • • • • • • • • • • •
		For	Coal Company
		. 0.	ar a arribonis
			Otticial Title