

Company COLUMBIAN CARBON COMPANY

Address Box 873 CHARLESTON W. VA.

Farm UNITED STATES OF AMERICA C-4436-8

Tract 32 Acres/863.6/32 Lease No. B.M.A.0328/9

Well (Farm) No. G-4 Serial No. GW-1275

Elevation (Spirit Level) 32.49.17

Quadrangle HORTON 9 SW3565 W 308

County RANDOLPH District DRY FORK

Engineer L. D. Underston

Engineer's Registration No. 2074

File No. Drawing No. W-15-57

Date 8-14-57 Scale 1-2000

WELL LOCATION MAP

- + Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
- Denotes one inch spaces on border line of original tracing. /

Weepwell

6-6 261



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 6

Quadrangle Horton 9 SW

Permit No. Ran-96	WEL	L RECORD	ammeranding agree in masses was electrical	Oil or (Gas Well gas
Company Columbian Car	bon Company, Oper.	~		* 4	
Address Box 873, Charl		Casing and Tubing	Used in Drilling	Left in Well	Packers
Farm United States of A	America Acres 1863. 6	132 —			
Location (waters) East For	k of Glady Fork	Size			
Well NG-4, GW-1275	Elev. 3249. 1	7'G16			Kind of Packer
			48'6"	481611	none
The surface of tract is owned in	County Randolph Director, Bureau n fee by of Land Managen	nent 3/4" 40#	970'1"	970'1''	Size of
Interior Bldg.	Address Washington 25, 1) C. 91/		7.9	Size oi
Mineral rights are owned by			5500' 4"	5500'4''	Depth set
	Address		3300		Depth set
Drilling commenced 9-14-		3			73 0 2
	57		5424'4''	54241411	Perf. top
	тто		th 2" cage		Perf. bottom
•	n10	Liners Used	ur & cago	<u> </u>	Perf. top
With		***	-	**	Perf. bottom
	in			1	
/10ths Merc.	in 711 23#	casing cem	ENTED	SIZE	_No. FtDat
Volume 14,519,000 c (before killing	gas)	Ft.	see revers		
Rock Pressure	S lbs.	rs.		imhone	FEETINCHE
011	bbls., 1st 24 l	rs. CUAL WAS E			
WELL ACIDIZED see rev		FEE	TINC	HES	FEETINCHE
		FEE	TINC	HES	FEETINCHE
WELL FRACTURED not fr	actured				
		·			
ROCK PRESSURE AFTER TE	REATMENT 20 hours 182	.5#		Fee	4
ROCK PRESSURE AFTER TF Fresh Water 42	REATMENT 20 hours 182	.5#			t
ROCK PRESSURE AFTER TF Fresh Water 42' Formation Color	REATMENT 20 hours 182 Feet Hard or Top	Salt Water	Oil, Gas	Fe	t
ROCK PRESSURE AFTER TO Fresh Water 42' Formation Color Dil lay and Rock	REATMENT 20 hours 182 Feet Hard or Top	Salt WaterBottom	Oil, Gas	Fe	t
ROCK PRESSURE AFTER TO Fresh Water 42' Formation Color Dil lay and Rock	Feet Hard or Soft Top	Salt WaterBottom	Oil, Gas	Fe	<u>.</u>
Formation Color	Feet Hard or Top 0 5	Salt WaterBottom 5 25	Oil, Gas	Fe	<u>.</u>
ROCK PRESSURE AFTER TF Fresh Water 42' Formation Color oil lay and Rock ravel and	REATMENT 20 hours 182 Feet Hard or Top 0 5 25	Salt Water	Oil, Gas or Water	Fee	Remarks
Formation Color il lay and Rock ravel and ate and Lime	REATMENT 20 hours 182 Feet Hard or Top 0 5 25 35	Salt Water	Oil, Gas or Water	Fee	Remarks
Fresh Water 421	Feet Hard or Top 0 5 25 35 80	Salt Water	Oil, Gas or Water	Fee	Remarks
Formation Color Formation Color pil lay and Rock ravel and ate and Lime ate ime	REATMENT 20 hours 182 Feet Hard or Top 0 5 25 35 80 220	Salt Water	Oil, Gas or Water	Fee	Remarks
ROCK PRESSURE AFTER TF Fresh Water 42' Formation Color oil lay and Rock ravel and ate and Lime ate ime ate	REATMENT 20 hours 182 Feet Hard or Top 0 5 25 35 80 220 260	Salt Water	Oil, Gas or Water	Fee	Remarks
Formation Color Formation Color oil lay and Rock ravel and ate and Lime ate ime ate	Feet Hard or Soft Top 0 5 25 35 80 220 260 375	Salt Water	Oil, Gas or Water	Depth 421	Remarks hole full
Formation Color pil lay and Rock ravel and ate and Lime ate	REATMENT 20 hours 182 Feet Hard or Top 0 5 25 35 80 220 260 375 400	Salt Water	Oil, Gas or Water F. water	Depth 421	Remarks hole full
Formation Color Formation Color Oil lay and Rock ravel and ate and Lime ate ime ate ime ate and Shells ime and Shale	REATMENT 20 hours 182 Feet Hard or Top 0 5 25 35 80 220 260 375 400 422	Salt Water	Oil, Gas or Water	Depth 421	Remarks hole full
Formation Color Formation Color Oil lay and Rock ravel and ate and Lime ate ime ate ime ate and Shells ime and Shale iale	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530	Oil, Gas or Water F. water	Depth 421	Remarks hole full
Formation Color Formation Color Col	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100 3530	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530 3780	Oil, Gas or Water F. water	Per Depth 42'-	Remarks hole full
Formation Color Formation Color pil lay and Rock ravel and ate and Lime ate ime ate ime ate ate ime ate and Shells ime and Shale iale iale ale and Lime he following formation	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100	Salt Water	Oil, Gas or Water F. water	Depth 421	Remarks hole full
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Formation Color Formation Color Dil lay and Rock ravel and ate and Lime ate ime ate ime ate ate ime ate and Shells ime and Shale iale following formation rây Shale fown Shale nondaga hert	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100 3530 as are from sample lo 3780 4360 4964 5011	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530 3780 g) 4360 4964 5011 5086	Oil, Gas or Water F. water 960'DLM= 4964 3 249 7715 Gas: 5170'80/1 5290-5340	Fee Depth 42'- 42'- 190 0 M. 6-5 'incr. fr	Remarks hole full 7 2/67 78" 13#= 13.6001 om 12,502M to
Formation Color Formation Color Dil lay and Rock ravel and ate and Lime ate ime ate ime ate and Shells ime and Shale iale ia	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100 3530 as are from sample lo 3780 4360 4964 5011 5086	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530 3780 g) 4360 4964 5011 5086 5109	Oil, Gas or Water 960'DLM= 4964 3 249 7715 Gas: 5170'80/1 5290-5340 104/10 1	Perh Depth 42'- 960'SLM 5 (5) 1 9 © 0 M. 6-5 incr. fr M. 7'' 23	Remarks hole full 7
Formation Color Formation Color Dil lay and Rock ravel and ate and Lime ate ime ate ime ate and Shells ime and Shale iale following formation rây Shale rôwn Shale nondaga hert hert and Shale nale	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100 3530 as are from sample lo 3780 4360 4964 5011 5086 5109	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530 3780 9 4360 4964 5011 5086 5109 5157	Oil, Gas or Water F. water 960'DLM= 4964 3 249 7715 Gas: 5170'80/1 5290-5340 104/101 5370-incr	Depth 42' 960'SLM 5 (5) 1 9 0 0 M. 6-5 incr. fr M. 7'' 23# from 10	Remarks hole full /8" 13#= 13.6001 om 12,502M to 1= 16,000M 5,000M to 110/10
Formation Color Formation Color Dil lay and Rock ravel and ate and Lime ate ime ate ate ime ate and Shells ime and Shale iale and Lime hale following formation rây Shale rown Shale nondaga hert hert and Shale nale riskany	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100 3530 as are from sample lo 3780 4360 4964 5011 5086 5109 5157	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530 3780 g) 4360 4964 5011 5086 5109 5157 5416	Oil, Gas or Water F. water 960'DLM= 4964 3 249 7715 Gas: 5170'80/1 5290-5340 104/101 5370-incr	Perh Depth 42'- 960'SLM 5 (5) 1 9 © 0 M. 6-5 incr. fr M. 7'' 23	Remarks hole full 7
Formation Color Formation Color Dil lay and Rock ravel and ate and Lime ate ime ate ime ate and Shells ime and Shale iale following formation rây Shale rôwn Shale nondaga hert hert and Shale nale	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100 3530 as are from sample lo 3780 4360 4964 5011 5086 5109	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530 3780 9 4360 4964 5011 5086 5109 5157	Oil, Gas or Water F. water 960'DLM= 4964 3 249 7715 Gas: 5170'80/1 5290-5340 104/101 5370-incr	Depth 42' 960'SLM 5 (5) 1 9 0 0 M. 6-5 incr. fr M. 7'' 23# from 10	Remarks hole full 7
Formation Color Formation Color Dil lay and Rock ravel and ate and Lime ate ime ate ime ate and Shells ime and Shale iale iondaga hert hert and Shale iale riskany ime	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100 3530 as are from sample lo 3780 4360 4964 5011 5086 5109 5157 5416	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530 3780 g) 4360 4964 5011 5086 5109 5157 5416 5451	Oil, Gas or Water F. water 960'DLM= 4964 3 249 7715 Gas: 5170'80/1 5290-5340 104/101 5370-incr	Depth 42' 960'SLM 5 (5) 1 9 0 0 M. 6-5 incr. fr M. 7'' 23# from 10	Remarks hole full 7
Formation Color Formation Color Col	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100 3530 as are from sample lo 3780 4360 4964 5011 5086 5109 5157 5416	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530 3780 9 4360 4964 5011 5086 5109 5157 5416 5451 5451' =	Oil, Gas or Water F. water 960'DLM= 4964 3 249 7715 Gas: 5170'80/1 5290-5340 104/101 5370-incr	Depth 42' 960'SLM 5 (5) 1 9 0 0 M. 6-5 incr. fr M. 7'' 23# from 10	Remarks hole full 7
Formation Color Formation Color Col	Feet Hard or Soft Top 0 5 25 35 80 220 260 375 400 422 1020 2100 3530 as are from sample lo 3780 4360 4964 5011 5086 5109 5157 5416	Bottom 5 25 35 80 220 260 375 400 422 1020 2100 3530 3780 g) 4360 4964 5011 5086 5109 5157 5416 5451	Oil, Gas or Water F. water 960'DLM= 4964 3 249 7715 Gas: 5170'80/1 5290-5340 104/101 5370-incr	Depth 42' 960'SLM 5 (5) 1 9 0 0 M. 6-5 incr. fr M. 7'' 23# from 10	Remarks hole full 7 2/67 78" 13#= 13.6001 om 12,502M to 16,000M 6,000M to 110/10

Formation	Color	Hard or Soft	Top	6	Bottom	Oil, Gas or Water	Depth Found	Remarks
12-30-57 Ci	rculated n	nud to kill w	ell - us	ed l	100 barrels	mud. 220 b	ags Gel 690	sacke
Baroid. Bef								
Perforated	" casing	as follows:			in ending Talifa y			•
5196-5200'	7 shots			1			==	
5208-5214'							iseli sel es de	riga i
5216-5222'	4 shots					10140-104	मुने श्रीकर पर्व हरू	APPORT THE
5224-5240'			19303			1 /48/00		
5243-5261	75 7 St. 7 St.						្នាស់ស្វែលការ៉ូងមិន	
5268-52781	. 1					181130180)	ing and greate	
5282-5284'						n Garai		
(5287-5295)		And the second of the second of						
5340-5350								
5326-5332'								
5157-5167	S 202 14				1 . D. 18 48 13 . 17 . 18	***		
2-19-58 Ran	5424'4"	f 2" tubing	with cag	e at	53921		er ålet i væve is	
			- 0					
2-21-58 Pun	aped in 65	barrels wa	ter - do	wn t	bing. Disp	laced with 6	bbls. mud	- took 1200#
to start - ci								
2-22-58 Pun	anad in 15	bbleeto	2 00	, , ~~	lana MCA .	 	L	4.11 3.60° A
was on botto								
pressure sta								
gallons MCA								
975# - waite								
opened brad							Shar down c	me nour-
oponica oraca	O11 11 CG G -	orr caracea a	11144 6		YOA OUL OL	MOTE.		
2-24-58 Ble	21 hours	than Dand	- Wood	چاند/ دادا	30	W 41 211 (156 3400	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
tubing - gas	gauged sa	me. rinar (pen mov	∨ Э,	150 MCF -	40 hour pres	sure 1025#.	
CASING RE	CORD							
		anada, kita a k						
10-6-57 Ran	10-3/4"	asing with	shoe at	960'	PLM - cem	ented with 28	0 sacks.	
		u sansantas sensiti usustatas a						
1-3-58 Ran	7" to botto	m - 5 centr	alizers ·	on p	ipe. Float c	ollar betwee	n first and	2nd joints -
Guide shoe	n bottom.	Cemented	with 250	sac	ks Uniflo.			
						1,346, 3,35, 17		
		•			leader of			
						No. 1		
		•					1,	
							LIMAS DE SEL	
								and the second
				*.				erija iz i
	ha News	1. 人名英格斯斯斯 文章						
	Artiji secu	in or house			1 -		1356 707	
				* * * 	in inggrande		48.800	e name
		· · · · · · · · · · · · · · · · · · ·	major ja			James and American		Avaliza szásza a min
		j. 9 ₈ 77. 2 4 4 20		· de la co	1		St.	
ji gas gribro		By an idea of h	le de la segui				Reference of the second of the	
					1.48	1 2-64-54	Constitution of the consti	San Carlo
Table Million (1951) Table Salas (1951)		main mente di di Ngjarak Barat Asar	Park Att		100000000000000000000000000000000000000			e e te e ser
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Characteristic constant and con							1 (1) (1) (1) (1) (1) (1) (1) (1	a a karan maran ma

Date March 12, 1958 , 19

APPROVED Columbian Carbon Co., Oper. , Owner

By R. B. Anderson, General Manager (Title)

083-0096 - Frac

FORM WW-2B

19375

	m LAG OL	men	tai Pi	rotacting													_
	MMI												بعدلا	F	age_ 06	0	£
(Van		Ĭ.	0	94	ST	ATE	OF.	WESI	<u>. AII</u>	<u> KGI</u>	NIA				00	141	194
gr	DB	LAR	TM	ENT	OF	ENE	ERGY	, DI	VIS:	ION	OF	OIL	AND	GAS			,
C	MACO	and e	C. I C	WEL	ıL	WORK	(PE	CRMIT	API	PLI	CATI	ON			تفعر	06/	12110
		ALS .	<i>9</i> 93 &											A Second Color	V Underlied		

	٠	CACE OF OIL	& (183	KK PEKHLI	AFFUICATION	expre	200121196
1)	Well Op	erator:_	COLUMBIA	GAS TRANSMIS	SION CORPORAT	ION 1045°	Q 369
2)	Operato	or's Well	Number: W	ELL #7443		3) Ele	vation:3256.90
1)	Well ty	/pe: (a)	Oil_/	or Gas	5 <u>X</u> /		
		(b)	If Gas:			ound Storage Shallow	
5)	EXIST	ING XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Formation	•	ORISKANY-CHE	<u>.</u>	· · · · · · · · · · · · · · · · · · ·
	EXISTI	NG		5465			
	_		-				
8)					1200' (APP.)	
9)				ths:			
10)						ive mine? Ve	es/ NoX/
			KILL WEL	L. PULL 2-3	/8" TUBING, CI	EAN OUT TO 546 'X2-3/8" WELLHE	5'(TD), INSTALL
	2-3/8" L	IPSET TUBING	. MATRIX AC	CIDIZE WELL	TO CLEAN UP S'	ΓORAGE ZONE, OR	FRACTURE TO
12)	IMPROVE	DELIAEKARIT	CASIN	G AND TUB	ING PROGRAM	S MAY BE ADDED	IN CHERT).
TYPE	3		PECIFICAT	CIONS	FOOTAGE II	TERVALS	CEMENT
-		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Cond	uctor	13-3/8"	UNK.	48#	48	48	TO SURF.
Fres	h Water	10-3/4"	UNK.	- 40.50#	970	970	280 SKS.
<u>Coal</u>	·						
Inte	rmediate	2					
Prod	luction_	7"	UNK.	23#	_	5455	250 SKS.
Tubi	.ng	2-3/8"	J-55	4.7#		5400	
Line	rs		**************************************				
PACK	ERS / K	ind	NONE			Automotive de Antonio	
~ 5	S D	izes epths s e t					
SACK	/ 	F	For Diviso	on of Oil	and Gas Use	Only	
<u>/_</u> ı		paid:	 ! Well V	√ork Permi	t l <u> </u>	lamation Fund	I WPCP
	Plat		WW-	-2B	Bond		_ .Agent

		REAL	IVED				
		W				•	
Page	1 of	Eminery Description of	il crotamica	1)	Date: Ju	une 10, 1994	
	WW2-A	JUN 1	A	2)	Operator'	's well numbe	r
(09/8	37)	,	0 34				083 - 00096 -
		Fernit	ting ! & iss	3)	API Well		083 - 00096 00096 00096 00096 00096 00096 00096 00096 00096 00096 00096
					VIRGINIA		
		DEPART	MENT OF ENER	GY, DI	AISION OF.	OIL AND GAS	
		אַסײַז פּבּ	AND APPLICA	ייד הא בינ	אם א שביני.	WORK DEBMIT	
		<u> </u>	AND AFFLICA	TION EC	JR A WELL	WORK PERMIT	
4)	Surface O	wner(s)	to be serve	d:	5) (a) Co	al Operator:	
	(a) Name	U.S. FOR	EST SERVICE			·	
	Address 1	<u>10NONGAHE</u>	<u>LA NATIONAL FOI</u>	REST	Address		
			NS, WV 26241				
•	(b) Name						h Declaration
	Address _	····			Name U.S.	DEPT. OF INTERI	OR, BUREAU OF LAND M
	(-) N		· · · · · · · · · · · · · · · · · · ·			.0. BOX 631	1 7
	(C) Name					WI 53201-063	LAND MGT., FIELD
	Address _						CE. RT. 1. BOX 132
						ARIETTA, OH 45	
6)	Inspector	PHILLI	P TRACY		(c) Coal	Lessee with	Declaration
	Address	RT. 2, BO	X 37A		Name		
		<u>MONTROSE,</u>	WV 26283				
	Telephone	(304)-	636-8798	deleter a constant			
		TO THE	PERSON(S) NA	MED ABO	OVE TAKE I	NOTICE THAT:	
	Included	ic the	leace or lea	CAC 07	other cor	ntinuing cont	ract or
						il and gas OR	
						oter 22B, Art	
Sect	ion 8(d) c	f the C	ode of West	Virgini	ia (see pa	age 2)	
	I certify	that a	s required u	nder Ch	napter 22B	3 of the West	Virginia Code
I ha	ve served	copies	of this noti	ce and	applicati	ion, a locati	on plat, and
accor						e above named	parties, by:
			rvice (Affid				
						<pre>ipt attached)</pre>	
	Publ	ication	(Notice of	Publica	ation atta	ached)	
	T have re	- bac be	understand C	 hanter	220 203	38 CSR 11-18,	and I agree
to th	ne terms a	nd cond	itions of an	napter v nermi	it issued	under this a	nnlication
	I certify	under	penalty of 1	aw that	t I have r	personally ex	amined and am
fami						application f	
atta	chments, a	nd that	based on my	inquin	ry of thos	se individual	s immediately
				ormatio	on, I beli	ieve that the	information
is t			d complete.				
	I am awar	e that	there are si	gnifica	ant penalt	ties for subm	itting false
luro	rmation, i	ncludin	g the possib	ility (of fine ar	nd imprisonme GAS TRANSMISSIO	nt. N COPP
~~~~~			Well Ope By:	Sator )	0.		IN CORP.
WEI TO	NO PAR	SEAL JBLIC	Its:	DIRECTOR	P DRILLING	& MAINTENANCE	<u> </u>
4 6 B	STATE OF W	NIA	Address			α ΠΩΤΙΔΙ ΕΙΔΝΙΛΕ	
	MARY PA				TON. WV 25	325-1273	
-	2052 Linnoin St. Albans, West V	ginia 25177	Telephon	e <u>304-3</u>	57-2459		
Subso	eribed and	348 1999 P	before me th	is <i>[Ot</i>	hday of	Gune	, 1994
			Ma		1		<del></del>
M			- I sory		work	<u>,                                    </u>	_Notary Public
rry C	ommission	expires	WAL	TUS)	10, 19	7 7	