





## STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 14

Quadrangle Chas. SW

Company Columbian Carbon Company

Location (waters) Right Fork Cane Creek

Mineral rights are owned by same

Drilling completed 7-7-62

Open Flow /10ths Water in\_\_\_\_\_

WELL FRACTURED see reverse side

Cemented to----

WELL ACIDIZED not acidized

Date Shot not shot From To

Address P.O. Box 873, Charleston 23, W. Va. Farm The Courtland Company Acres 5, 350

Well No. 4 - GW-1370 Elev. 781. 84' District Loudon County Kanawha The surface of tract is owned in fee by The Courtland Co 205 Odd Fellows Bldg Address Chas. 1, W. Va.

Permit No. Kan-1838

## WELL RECORD

AAII-1030			Oil or	Gas Well gas
lumbian Carbon Company O. Box 873, Charleston 23, W. Va. ourtland Company Acres 5, 350	Casing and Tubing	Used in Drilling	Left in Well	Packers
rs) Right Fork Cane Creek	Size	The state of the s		
GW-1370 Elev. 781. 84' udon County Kanawha	16	-		Kind of Packer Larkin Hookwall
tract is owned in fee by The Courtland Co	<sub>10</sub> 3/4" 32#		17'2"	Size of 5x211
ellows Bldg <sub>Address</sub> Chas, l, W. Va.	814 11 24#		pulled	1 209 (21)
are owned by same Address	xx7'' 23# 53/16''14#	677 <sup>1</sup> 2 <sup>11</sup> 1252 <sup>1</sup> 9 <sup>11</sup>	677'2" 1252'9"	Depth se 1 388 311
enced 5-19-62	3			Perf. top
oted 7-7-62		1480'7"		Perf. bottom
shot From To	Liners Used_W		on botton	Perf. top
/10ths Water inInch				
				_No. FtDate
lbshrs.		e reverse		
bbls., 1st 24 hrs.	COAL WAS E	NCOUNTEREL	AT_Hone	FEETINCHES
ZED_ not acidized	FEET	INC	HES	_FEETINCHES
	FEET	INC	HES	_FEETINCHES

RESULT AFTER TREATMENT 55/10 W. 2" = 313MCF (Big Lime and Big Injun) ROCK PRESSURE AFTER TREATMENT 69 hours 312# Big Injun -- 5 days 117# Big Lime

Fresh Water 90	-100¹	Feet		Salt Water_	690 <b>-</b> 700' 72	O¹ Feet	
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Gravel and \$	and		0	40			
Sand			40	80			
Slate			80	325	F. water	90-1001	hole full
Sand			325	430			
Slate			430	463			
Sand			463	505	Gas	680 <b>-</b> 90'	show
Slate			505	560	Oil	680 <b>-</b> 90'	show
Sand Sult	27	**	560	810	S. water	690-700'	•
Slate			810	833	S. water	720'	hole full
Lime			833	8 <b>7</b> 5	Oil	765'	show
Sand and Lin	ne		875	886			
Sand			886	1058	Gas	978-831	show
Lime			1058	1080			
Sand			1080	1130			
Lime	-		1130	1151			
Sand -			1151	1168			
Slate	-		1168	1188			
Big Lime			1188	1428	Gas 1328-	29' 2/10 W.	1'' = 15M
Big Injun Sar	nd		1428	1459	Gas 1342-	46' 8/10 M.	5-1/2"=271 6M-
Slate			1459	1465		1	drowned out
Gritty Lime			1465	1479			
Total depth-				1479'	(6)76		

14551

Formation	Color	Hard or Soft	Top   4	Bottom	Oil, Gas or Water	Depth Found	Remarks
CASING R	ECORD						
5-21-62	Ran 10-3	/4" drive p	pe at 17'DL	м			
5-26-62	Ran 8-5/	8" with sho	e and Midge	bottom hol	e packer at	386'DLM-pu	lled.
5-29-62	Ran 7" w set at 54	rith shoe set	in 30 <sup>†</sup> coal	and red mue	at 671'DL1	M-Anchor pa	cker
6-26-62	Ran 5-1	2" casing v	vith shoe at	1242' DLM	set in 23'	red mud.	
*					i .		en e
FRACTUR							
15% regula	r acid - r -40 sand, pressure	naximum pr 250# WAC-	essure 2,50 8 - 1/2 dru	0#. Fractur	ed with 15,0	an 1,500 gal 000 gallons v MN Tergitol ection rate l	ater,
Final oper	flow 55/1	0 W. 2" = 3	13 MCF - a	II gas (Big I	ime and Bi	g Injun)	
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		AND THE RESERVE OF THE PROPERTY OF THE PROPERT					*
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				1000			
4**************************************	4.						

Date July 26	, 19 <u>62</u>
APPROVED Columbian CarbonCompany	, Owner
By W.S. Moore, Mgr. of Prod.	
(Title)	

V.'R-38 DATE:

## STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

## AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name	: Courtland Compa	ny	Operator Well No: Courtl	and Co. # A4
LOCATION	: Elevation: District: Loud Latitude: 1820' Longitude: 885'	781.84ft. on Co Feet South of Feet West of	•	West <u>7.5</u> 30 Sec. 30 Sec.
Well Type:	OIL GAS XX	<u>(X</u>	·	
Agent: Ric	Equitable Production P. O. Box 2347 Charleston, WV 2530 chard Smeltzer ed Date: 6/17/02	2	Coal Operator Same as Surfa or Owner  Coal Operator None or Owner	Octobres of Oil & Ges Permitting  SEP 0 3 2502  WV Department of Environmental Protection
	OF WEST VIRGINIA,	•		
law depose employed l well, and _ said work	e and say that they a by the above named Carlos Himely	re experienced in well operator, an Oon theO	the work of plugging and filed participated in the work of the landGas. Inspector represent	ing first duly sworn according to ling oil and gas wells and were plugging and filling the above senting the Director, say that and that the well was
TYPE	FROM	ТО	PIPE REMOVED	LEFT
Gell	. 1480	1356	1480 23/8 Tuping	0
Cement.	255ks 1356	1146	18 -	
Gell	1146	651		
rement.		391		
Gell	39 A	155		
cement =	<u> </u>	SUFACE		
200,000	700	04.7.00		
Note).	go casing free	anable 10 1	etricut	Backed of & 4 of 7"
Descript filling said	ion of monument: Part well was completed or	ial Plugging / Well the <u>26</u> day o	still in production and that the	work of partial plugging and
And fur	thur deponents saith n	ot.	) '	SEP 0 6 200%
		Tillian	Stepho	
Sworn a My com	and subscribe before r	na thia 23 day	of July 18-	OFFICIAL SEAL
	nmission expires: <u>ک</u>	Jan J	and and	NOTARY PUBLIC STATE OF WEST VIRGINIA DENISE L. EVANS ROUTE 4, BOX 5/3-A CLARKSURG, WV 20301