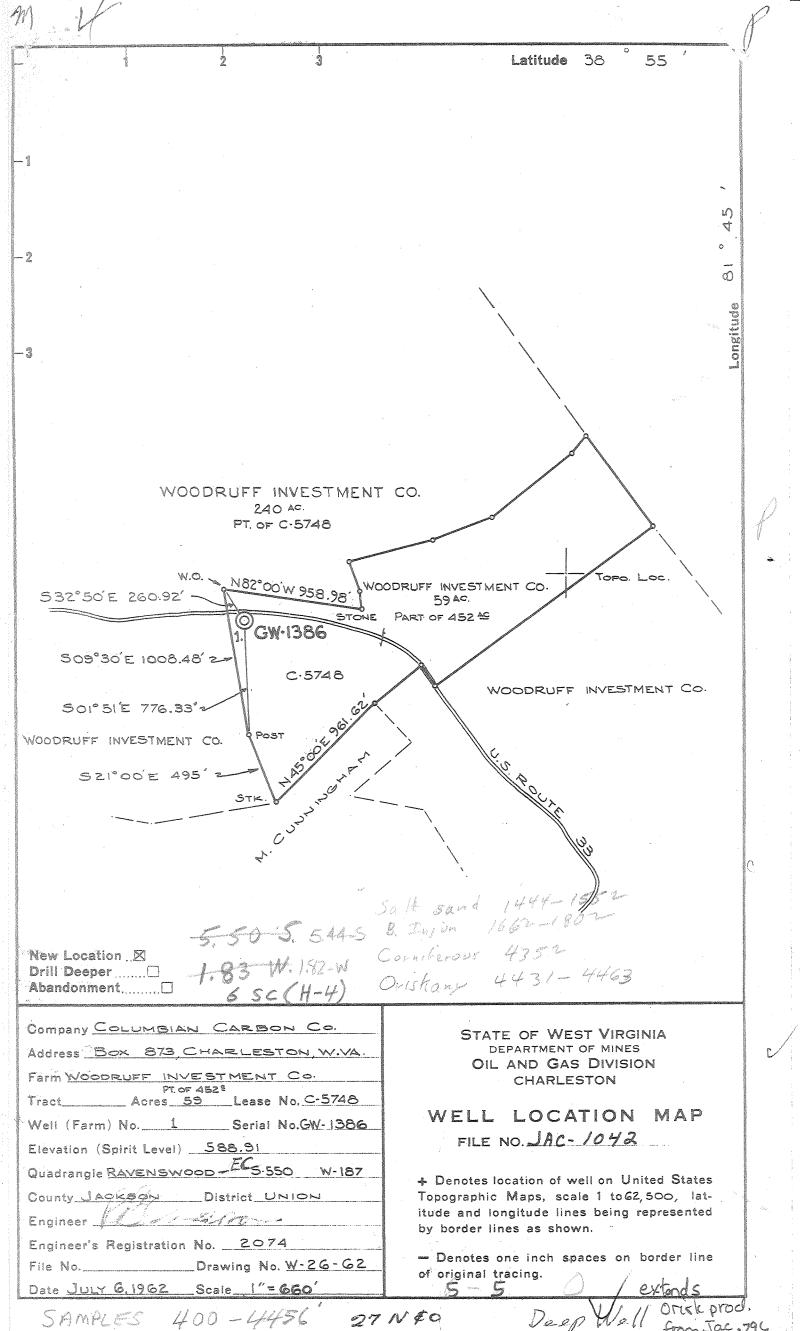


Deep Well JUL 31 1972



Sand

Lime and Shale

Gray Shale Red Rock Sand



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 5

Quadrangle Ravenswood SW

Permit No. Jac	-1042		WELL	RECORD		Oil or G	ias Wellgas
· · · · · · · · · · · · · · · · · · ·	mbios Co.	whom Comme		Modern Construction of the	T-		(KIND)
Company Colu	72 Charl	oston 22 W	Va	Casing and	Used in	Left in	Packers
Address Box 8				Tubing	Drilling	Well	rachers
Farm Woodry			cres_452	***************************************			
Location (waters)	U. S. ROI	ute #33	500 011	Size			
Well No. 1 - G			Elev.588.91°		591	591	Kind of Packer
District Union				13 3 / 8" 48#		38715"	none
The surface of tra					1	pulled	Size of
		Wa _{ress} Kansas	City 5, Mo.	814 11 24#	1811'	18111	<u> </u>
Mineral rights are	e owned by	same		65/8		i i	Depth set
		Address	<u> </u>	53/16'14#	4452'2"	4452'2"	
Drilling commence				3	-		Perf. top
Drilling completed	3	3-28-62		23/814.6	# 4358'3''	¥358¹3¹¹	Perf. bottom
Date Shot not s						ıge	Perf. top
With							Perf. bottom
Open Flow 20	10ths Water i	n 1	Inch	- (<u>) </u>		·	I CII. DOLLUIII
-		n				1	Administracy and an extension of the second
Volume							No. FtDate
Rock Pressure			* * * * * * * * * * * * * * * * * * * *	<u> </u>	see revers		
Oil				COAL WAS E	NCOUNTERE	DAT	FEETINCHES
WELL ACIDIZEI				FEE	TINC	CHES	FEETINCHES
1 ° 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							FEETINCHES
WELL FRACTUR	orn see a	ttached shee	et.	THE PER	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	nes	reelINCHES
Fresh Water 58-	-62' 102'			Salt Water	10601 1485	Fee	t
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			9 - 12 - 12 - 0	48	F. water	58-62	hole full
Gray Shale		Birrotoliaces	48	126	F. water	102'	2 blr/hr.
Red Rock			126	136		(aval)	
Lime		· VARIOUS	136	9,5 - 150			
Sand		licenterenda	150	166			
Red Rock	diserphisippe	isroizonaan õir	166	218			
Gray Shale			218	252			
Red Rock	-		252	285			
Gray Shale	94.		285	305		-	
Red Rock		no. a distinuit	305	331	•		
Gray Shale			331	360			
Red Rock	,	included and the second and the seco	360	385			
Shell			385	392	St various	1488	Feed a Sala
Red Rock		The state of the s	392	396			
Shale and \$	hells		396	465			
Red Rock	The state of the s	- Marie Company	465	510			
Gray Shale	-	Ocean control	510	578			
Red Rock	van ciii) seeve	de de constante de la constant	578	591			
Lime			591	605			
Red Rock		· ·	605	625		156	78
Gray Shale		·	625	675		23456	
Time Shell	29 1	1	675	40A		W	074 Zn

(over)

686

760

775

795 806

684

686

760

775 795

Formation	Color	Hard or Soft	Top 5	Bottom	Oil, Gas or Water	Depth Found	Remarks
Gray Shale			806	875			
Sand			875	970			
Gray Shale	- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	3	970	1050			. A
Sand-	unidus."	·	1050	1168	S. water	1060'	1/2 blr/hr.
Gray Shale			1168	1180			1. ***
Sand			1180	1232			
Gray Shale Sand			1232 1270	1270			
Gray Shale			1277	1337	-	Sergico-const	
Sand-	Eddand A.		1337	1367	-		
Gray Shale			1367	1415			
Sand - Sald	Sand		1415	1430			
Gray Shale	***		1430	1444			-
Sand - Sally	Shah		1444	1551	S. water	14851	hole full
Gray Shale	t - way		1551	1552	·		
Lime-by	unic (340		1552	1650	-	appearation and a second a second and a second a second and a second a	
Gray Shale	ARTICLE AND		1650	1662	o		
Big Injun Sa	nd		1662	1778	4		
Gray Shale			1778	1780			
Sand - SQU			1780	1801			
Gray Shale Black Shale		Station .	1801 2130	2130			
Berea Sand	and the second s	Control Self and a Hangarith	2130	2142			
Gray Shale	٠.		2142	3575	Gas	22201	9
Brown Shale	- A.A.\		3575	3665	Gas	32301	show
Gray Shale			3665	3680			
Brown Shale			3680	3820			
Gray Shale		y de d	3820	4218		Marie Marie Carlos Marie	
Brown Shale	B	and the property of the second	4218	4363	4363'DLM=	4342'SLM	
Corniferous	Lime-46		4363434	4431	4430!DLM=	Control of the Contro	
Oriskany Sa	nd		4431	4470	Gas	4441-441	show
					Gas	4453' 20/10	W. l''=47M
	and the same						,
Total depth-	4000 GUA 6000 EDUS 6000 DEGS 6000 MAG		9 Sect 1997 1990 4987 0988 008-	4470'			
	2.			(495)			
CASING RE	COPD			The second section of the sect			
CASING RE	JORD						
7-12-62	Ran 13-3	/8" casing	t 370'DLM	digestra attasa	es esta en esta en el esta en el Esta en el esta en el e		
7-16-62	Ran 10-3	/4" casing	with shoe at	864'DLM.		properties of the second	
7-28-62	Ran 8-5	811 casing w	ith shoe at 1	709101 14 -	et in 20' red		
	and rera	n 8-2-62 at	1804'DLM w	ith shoe	com zo red	mud-barred	
				LULE ULLU Ca',			
8-18-62	Ran 5-1/	2" casing at	4412'SLM-	cemented w	ith 30 sacks	Ran with s	10e _e
powering					sianoterous		
Spinor State Control of the Control							
SEE FRACT	URING RE	CORD ON A	TTACHED	SHEET.			
archinologie.		:					
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			and the second	1 7 7 1 101	er i falletti ya eri ili. 2	tat vine	
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			Maria de la compansa			garandan Terr	
Character de la companya de la compa				William	•		
13 0/4-0	The state of the s				1		

APPROVED Columbian Carbon Company, Owner

By W. S. Moore, Mgr. of Prod.

(Title)



FRACTURING RECORD ON GW-1386, WOODRUFF INVESTMENT CO. #1

Before attempting to fracture Oriskany on 8-30-62 gas gauged 47 MCF. Loaded $5^{\circ\circ}$ casing and hole with 2,000 gallons acid. Pressured to 3100#. Let soak. Pressure dropped to 1500#. Pressured to 2600# - lost pressure -. went on vacuum. Gas blowing outside of $5^{\circ\circ}$. bailed - got some acid and frac sand.

Attempted to Fracture Oriskany 9-4-62

Ran Lynes packer on 3" - set in formation at 4421'. Pumped in 2,000 gallons acid - displaced - had 25 bbls. in formation at 3100#. Lost pressure - on vacuum. Pumped 15 minutes at average injection rate of 17 bbls/minute. Pressure went to 3,400#-started to get blow in 5" - came around packer. Tried to release packer-could not release. Tried to circulate around packer. Got circulation but could not move. Perforated top of packer and circulated freely down tubing and up 5" casing. Ran McCullough Free Point Indicator. Found tubing tight at 4,360' - free at 4,355'. Assume 5" collapsed around tubing 4355-60'. Ran cutter in 3" - would only go to 4,343' - 3" apparently collapsed below that point. Cut 3" tubing at 4,355'. Took 100,000# to pull 2 joints - Bailer only goes to 4,336' in 5".

Ran 2" tubing, cage on bottom 22'4" joint below cage with bull plug in bottom-cage at 4, 313' - bottom of tubing at 4, 335'.

Well dried up - final open flow 10/10 W. 2" = 133 MCF 9 day rock pressure 1,070#



FORM OG-E

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAG

AFFIDAVIT OF PLUGGING AND FILLING WELL

ADDRESS ON TOTAL STREET COAL OPERATOR OR OWNER COAL OPERATOR OR OWNER COAL OPERATOR OR OWNER Union District ADDRESS Jackson County LEASE OR PROPERTY OWNER Well No. 1. CW-1386 ADDRESS Woodruff Investment Co. Farm AFFIDAVIT AFFID	% Davis W. Smith ADDRESS 1203 W 70th Street 1203 W	Box 873, Charleston complete ad July 19, WELL AND LC	W. Va. 25323
ADDRESS ON TOTAL STREET DEAR COLLY MISSOURI 64113 COAL OPERATOR OR OWNER Union District ADDRESS Jackson County Well No. 1. GW-1386 ADDRESS Well No. 1. GW-1386 ADDRESS Well No. 1. GW-1386 ADDRESS Woodruff Investment Co. Farm TE INSPECTOR SUPERVISING PLUGGING. Fred Burdette, Sissouville, W. Va. AFFIDAVIT ATE OF WEST VIRGINIA, anty of Jackson Ses: Steve Our Kworto Affidavit	ADDRESS 1203 W 70th Street Ransas City, Missouri 64113 COAL OPERATOR OF OWNER ADDRESS LEASE OF PROPERTY OWNER	July 19, WELL AND LC	Dreas
Union District ADDRESS Jackson County LEASE OR PROPERTY OWNER Well No. 1. GW-1386 ADDRESS Woodruff Investment Co. Farm TE INSPECTOR SUPERVISING PLUGGING Fred Burdette, Sissonville, W. Va. AFFIDAVIT ATE OF WEST VIRGINIA, inty of Jackson sss: 3+eve Durkworth and Lergy Frunty 19 first duly sworn according to law depose and say that they are experienced in the work of gging and filling oil and gas wells and were employed by Gitles Service Oil Company 1 operator, and participated in the work of plugging and filling the above well, that said work is commenced on the 4th day of October 19.72, and that the well was plugged I filled in the following manner: OR ZONE RECORD FILLING MATERIAL PLUGS USED CASING PULLED CASING PULLED CASING PULLED CASING PULLED CASING PULLED CASING PULLED CASING COMPANY CASING CASIN	COAL OPERATOR OR OWNER AUDRESS LEASE OR PROPERTY OWNER		
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Woodruff Investment Co. Farm TE INSPECTOR SUPERVISING PLUGGING. Fred Burdette. Sissonville. W. Va. AFFIDAVIT ATE OF WEST VIRGINIA, Inty of Jack con Steve Durkworth and Levey Frunty Ing first duly sworn according to law depose and say that they are experienced in the work of gging and filling oil and gas wells and were employed by Cities Service Oil Company I operator, and participated in the work of plugging and filling the above well, that said work is commenced on the ltth day of October 19.72, and that the well was plugged I filled in the following manner: OR ZONE RECORD FILLING MATERIAL PLUGS USED CASING FORMATION Filled hole with SIZE & KIND CASING PORMATION Filled hole with 171/8 6 1 of 2 inch 1171/8 - 1728 10 cacks coment 388 of 12 inch 3210-3190 7 cacks coment 599 of 171/8 - 1728 10 cacks coment 599 of		Well. No. 1, GW-138	
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Serve Durkwooth and Leroy Prunty In first duly sworn according to law depose and say that they are experienced in the work of gging and filling oil and gas wells and were employed by Gities Service Oil Company loperator, and participated in the work of plugging and filling the above well, that said work scommenced on the 1th day of October 19.72, and that the well was plugged littled in the following manner: OR ZONE RECORD FILLING MATERIAL PLUGS USED CASING FORMATION Filled hole with SIZE & KIND CASING 131.88; 961; of 21nch 21.86; of 21nch 21.170-1.870 1 -2cks coment 171.8 6; of 22.10ch 21.16-2305 7 -2cks coment 388 of 12 " 3210-23190 7 -2cks coment 59; of	STATE OF WEST VIRGINIA,		
Steve Durkworth and Leroy Prunty ng first duly sworn according to law depose and say that they are experienced in the work of gging and filling oil and gas wells and were employed by Gitles Service Oil Company I operator, and participated in the work of plugging and filling the above well, that said work s commenced on the Lth day of October 19.72, and that the well was plugged I filled in the following manner: OR ZONE RECORD FILLING MATERIAL PLUGS USED CASING FORMATION Filled hole with SIZE & KIND PULLED LEFT IN (6% Bentonite Mud) 4350 of 2 Inch 1/1/70=1/3/70 1/2 racks cement 171/8 6/1 of 2/1/1/2-2/205 7 racks cement 388 of 12 " 3210-2190 7 racks cement 591 of 171/8-1728 10 racks cement 591 of	ss:		
ng first duly sworn according to law depose and say that they are experienced in the work of gging and filling oil and gas wells and were employed by Cities Service Oil Company I operator, and participated in the work of plugging and filling the above well, that said work is commenced on the 1th day of October 19.72, and that the well was plugged I filled in the following manner: OR ZONE RECORD FILLING MATERIAL PLUGS USED CASING FORMATION Filled hole with SIZE & KIND CASING (6% Bentonite Mud) 4350 of 2 Inch 11/170-1/1/170 1/ cacks cement 17/1/8 6) of 21/171-2205 7 cacks cement 388 of 13 " 3210-3190 7 cacks cement 59/1 of 17/18-1728 10 cacks cement cement		a Lenov Printy	
gging and filling oil and gas wells and were employed by Cities Service Oil Company I operator, and participated in the work of plugging and filling the above well, that said work is commenced on the 1th day of October 19.72, and that the well was plugged I filled in the following manner: OR ZONE RECORD FILLING MATERIAL PLUGS USED CASING FORMATION Filled hole with SIZE & KIND PULLED LEFT IN 15.70 - 15.70 - 15.70 celes Compant 171.8 6 1 of 15.70 - 15.70 celes Compant 171.8 6 1 of 15.70 - 15.70 celes Compant 171.8 6 1 of 15.70 - 15.70 celes Compant 171.8 6 1 of 171.8 - 172.8 10 cecks Compant Compant 171.8 6 1 of 171.8 - 172.8 10 cecks Compant Compant 171.8 6 1 of 171.8 - 172.8 10 cecks Compant Compant 171.8 6 1 of 171.8 - 172.8 10 cecks Compant Compant 171.8 6 1 of 171.8 - 172.8 10 cecks Compant Compant 171.8 6 1 of 171.8 - 172.8 10 cecks Compant Compant 171.8 6 1 of 171.8 - 172.8 10 cecks Compant Compant 171.8 - 172.8 10 cecks Compant Compant 171.8 - 172.8 10 cecks Compant Compant 171.8 - 172.8 10 cecks Compant 172.8 - 172.8 10 cecks Compant 172.8 - 172.8 10 cecks Com	noing first duly sworn according to law depose an	d say that they are exper	ienced in the work of
commenced on the 4th day of October 19.72, and that the well was plugged filled in the following manner: OR ZONE RECORD	being mist daily sworm according to have deposed and	Cities Ser	ice Oil Company
S commenced on the 1thday of October	plugging and filling oil and gas wells and were employed or programs and participated in the work of plugg	oyed by saley of the above	well, that said work
on zone record Filling Material Plugs used Casing Formation Filled hole with size a kind Case Pulled Lept in (5% Bentonite Mud) 4358 of 2 inch 1/20-1/870 1/2 - a c/r a coment 771/8 6 3 of 2 inch 2/21-2305 7 - a c/r a coment 388 of 13 inch 3210-3190 7 - a c/r a coment 591 of 591 of 171/8-1728 10 - a c/r a coment 591 of 591 of 171/8-1728 10 - a c/r a coment 591 of 591 of 171/8-1728 10 - a c/r a coment 591 of 591 of 171/8-1728 10 - a c/r a coment 591 of 591 of 171/8-1728 10 - a c/r a c/r a coment 591 of	went operator, and participated in the day of October	10 72 and that	the well was plugged
OR ZONE RECORD FILLING MATERIAL PLUGS USED CASING FORMATION Filled hole with SIZE & KIND PULLED LEFT IN (5% Bentonite Mud) 4350 of 2 Inch 1/170=1/870 1/1 -acks Coment 17/1/8 6 1/1 of 21/172-2305 7 -acks Coment 388 of 13 1/1 3210-3190 7 -acks Coment 591 of 17/1/8-1728 10 -acks Coment	was commenced on the 4 of and ay of a day of a d	g &dadd y	ATTO ALCOTO IS NOT BOUNDED
PORMATION Filled hole with (6% Bentonite Mud) 1/170-1/370 1/ -acks coment 171/8 6/1 of 1/170-1/370 1/ -acks coment 388 of 13 3210-3190 7 -acks coment 59' of 171/8-1728 10 -acks coment 59' of		01112611615	CASING
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	(5% Bentonite Mud)		
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	And the second s	91	
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	Comen' need go sacks		
60 to surface 30 sacks coments Coment used 90 sacks			
Coment used go sacks Annagel yard 20 sacks	vase Oc bery fearing	I demand the second sec	TION OF MONUMENT
COAL SEAMS 60 to surface 30 socks Gement Coment used 90 secks Active and 20 secks Description of Monument	vase Oc ber fearing	DESCRIP	
Coment used 90 ancka Coment used 90 ancka Coal seams Description of Monument The Tail Caring Precised as	COAL SEAMS COAL SEAMS WE)	DESCRIP A" x 1 C" Ca	aino Prected so
COAL SEAMS 60 to surface 20 sacks Coment used 90 sacks Aguages used 20 sacks Description of Monument	COAL SEAMS ME) ME)	DESCRIP A" x 1 C" Ca	aino Prected so
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llaca at a series ll aamant e		The state of the s	
280-260 O sacks cement	60 to auntona 30 and	(a coment	
			11 3
60 to surface 30 sacks coment	Coment used 90 macks		
60 to supfoce 20 socks coment			
Coment need 90 sacks Advaged yard 20 sacks	vase Oc bery fearing	I demand the second sec	WIGH OF MONIMENT
COAL SEAMS 60 to surface 30 sacks Coment used 90 sacks Action of Monument	vase Oc bery fearing	DESCRIP	
COAL SEAMS 60 to surface 30 sacks Coment used 90 sacks Coal seams DESCRIPTION OF MONUMENT 11 T 151 Casing Practed as	COAL SEAMS Dand 20 each	DESCRIP A" x 1 C" Ca	aino Prected so
Coal seams 60 to surface 30 sacks Coment used 90 sacks Coal seams Description of Monument 10 x 15 Casing Precised as	COAL SEAMS COAL SEAMS COAL SEAMS	DESCRIP A" x 1 C" Ca	aino Prected so
COAL SEAMS 60 to surface 30 sacks Coment used 90 sacks Coal seams Description of Monument 11 x 1511 Casing Practed as	COAL SEAMS COAL SEAMS COAL SEAMS	DESCRIP A" x 1 C" Ca	aino Prected so