



State of West Virginia DEPARTMENT OF ENERGY

Division of Oil and Gas

Well Operator's Report of Well Work

©Farm name: DELONG, VERNON & ELIZ.

Operator Well No.: F. R. BALL 20

LOCATION:

Elevation: 1235.00 Quadrangle: CENTER POINT

County: TYLER
Feet South of 39 Deg. 27Min. 30 Sec.
Feet West of 80 Deg. 40 Min. 0 Sec. District: MCELROY 925 5480 Latitude:

Company: PENNZOIL PRODUCTS COMPANY

Longitude

P. O. BOX 5519

VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Fresh water depths (ft)

Inspector: GLEN P. ROBINSON Permit Issued: 07/30/90 Well work Commenced: 10-21-90 Well work Completed: 11-29-90 Verbal Plugging Permission granted on: Rotary X Cable Total Depth (feet) 3206'

Salt water depths (ft)

Is coal being mined in area (Y/N)? N Coal Depths (ft): N/A

Casing	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size		<u> </u>	To
8-5/8	490	 490	Surface 360 Sks.
4-1/2	3186.70	 3186.70	300 Sks.

OPEN FLOW DATA

Producing formation	Gordon	Pay zone depth (ft)	3144-3174
Gas: Initial open flow	* MCF/d Oil	: Initial open flow	Bb1/d
rinal open flow	MCF/d	Final open flow	
Time of open flow b	etween initial	and final tosts	Bbl/d
Static rock Pressure	- in that	and linal tests	Hours
beacte fock Flessure	psig (sur	face pressure) after	Hours
Consulation of the contract of			
Second producing formati	on	<pre>Pay zone depth (ft)</pre>	
Gas: Initial open flow	MCF/d Oil	: Initial open flow	Bb1/d
Final open flow	MCF/d	Final open flow	
Time of open flow b	<u> </u>	rinar open flow	Bbl/d
Time of open flow b	etween initial	and final tests	Hours
Static rock Pressure	psig (sur:	face pressure) after	Hours
* Water injection well - n			-

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: PENNZOIE PRODUCTS COMPANY

Date: 1991

Timothy P. Roush

Stimulation

Perforated: Gordon 3144-3154 - 10 holes

Treated w/300 gals. reg. HR acid, 293 Bbls. gelled water and 1500 # 80/100 and 3500 # 20/40 sand.

Well Log	
Sand & Shale	00-684
Sand	684-710
Sand & Shale	710-1110
Sand	1110-1133
Shale	1133-1140
Sand	1140-1156
Shale	1156-1181
Sand	1181-1197
Shale	1197-1250
Sand	1250-1265
Shale	1265-1458
Sand	1458-1479
Shale	1479-1494
Sand	1494-1541
Sand & Shale	1541-1674
Sand	1674-1728
Shale	1728-1772
Sand	1772-1830
Shale	1830-1875
Sand	1875-1900
Shale	1900-1985
Sand	1985-2005
Shale	2005-2290
Little Lime	2290-2304
Shale	2304-2332
Big Lime	2332-2413
Big Injun	2413-2562
Shale	2562-3138
Gordon	3138-3174
Shale	3174-3206
T.D.	3206 '

92/0/

FORM WW-3(B)	FILE COPY		1) Date: May
(Obverse) 7/85		OF WEST LINE	2) Operator's Well No. F.
		RECEIVED	3) SIC Code
•	7 ma		4 API Well NO.
		JUN 0 8 1990	5. UIC Permit No
~•		DEPT. OF ENERGY OF WEST VIRGIN	T.

1)	Date: May	29		19 90
2)	Operator's Well No. F.	R. BALL	NO. 20	
	SIC Code			
• 4	API Well NO.	State	095 County	- 1416-LI
5.	UIC Permit No.	<u>uicz</u>	K095	CIAP
A .\	ORK PERMIT	sued over	7/30/	10
iLL W	ORK PERMIT	APPLICATI	ON -	· · · · · · · · · · · · · · · · · · ·

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

		tion:	1235				n Creek		
			McElro		Cou	nty: <u>Tyle</u> 1		ngle: <u>Center Point 7.</u> 5	
	OPERATOR				Co.	9) DESIGN	ATED AGENTJ	ames A. Crews	
	Address					`~ A		.O. Box 5519	
			na, W.		<u>6105–551</u> 9		V	<u>ienna, WV 26105-551</u> 9	
10) OIL & C									
Name			<u>binson</u>			II) DRILLIN	G CONTRACTOR:		
Addre					<u>Estates</u>	Name			
	Mine	<u>ral We</u>	11s, W	. Va.	<u> 26150 </u>	Address	·		
12) PROPO	SED WELL	WORK:	Drill	<u>X/</u> I	Orill deeper	/ Redrill	/ Stimulate_	_X/	
			Plug of	ff old form	nation/ Perforate	new formation/	Convert/		
			Other p	hysical chan	ge in well (specify)				
13) GEOLO	GICAL TAR	GET FOR	MATION	,	Gordon		Depth 3121 *	feet(top) to 3141 feet(bottom)	
14) Estimate	ed depth of co	mpleted v	well, (or ac	tual depth o	f existing well)	3196 ft.		reci(socioni)	
15) Approxi	mate water st	rata depti	ns; Fresh,	460	feet; salt,		_		
	mate coal sear			035 '			•	·	
	eing mined ir			/ No X	,				
	servoir pressu					Estimated	-	\mathcal{I}	
								······································	
psig (birt)									
	IUM PROPO	SED INTE	CTIONO	PERATION	S: Volume per hour:	25 Вb1/н	T. Barram hala	2332 pci	
20) MAXIM	IUM PROPO: LED IDENTII	SED INJE	CTION O	PERATION	S: Volume per hour:	25 вь1/н	r. Bottom hole pr	essure 2332 psi	
20) MAXIM 21) DETAIL	LED IDENTII	FICATIO	N OF MAT	TERIALS TO	BE INJECTED, INC	25 Bb1/H	Fresh/pr	oduced water treated	
20) MAXIM 21) DETAIL <u>w/b</u>	LEDIDENTII Dacteric	ides a	NOFMAI	TERIALS TO er chemi	BE INJECTED, INC Lcals as is ne	25 Bb1/H LUDING ADDITIV Eccessary to	_{/ES:} <u>Fresh/pr</u> maintain wat	oduced water treated er quality.	
20) MAXIM 21) DETAIL <u>w/b</u> 22) FILTER	LED IDENTII Dacteric: S(IF ANY):_	FICATIO ides a cart	NOFMAT nd othe ridge a	rerials to er chemi and/or o	BEINJECTED, INC Lcals as is ne coal bed filte	25 Bb1/H LUDING ADDITION Eccessary to	ves: <u>Fresh/pr</u> maintain wat	oduced water treated	
20) MAXIM 21) DETAIL <u>w/b</u> 22) FILTER	LED IDENTII Dacteric: S(IF ANY):_	FICATIO ides a cart	NOFMAT nd othe ridge a	rerials to er chemi and/or o	BE INJECTED, INC Lcals as is ne	25 Bb1/H LUDING ADDITION Eccessary to	ves: <u>Fresh/pr</u> maintain wat	oduced water treated er quality.	
20) MAXIM 21) DETAIL	LED IDENTII DACTETIC: S (IF ANY): _ ICATIONS F	FICATION Ides a cart	N OF MAI nd othe ridge a HODIC PR	rerials to er chemi and/or o	BEINJECTED, INC Lcals as is ne coal bed filte	25 Bb1/H LUDING ADDITION Eccessary to	ves: <u>Fresh/pr</u> maintain wat	oduced water treated er quality.	
20) MAXIM 21) DETAIL	LED IDENTII DACTETIC: S (IF ANY): _ ICATIONS F	ides a cart OR CATI	N OF MAT nd othe ridge a HODIC PR GRAM	erials To er chemi and/or o	D BE INJECTED, INC Loals as is ne coal bed filte AND OTHER CORR	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL	ves: <u>Fresh/pr</u> maintain wat	oduced water treated er quality.	
20) MAXIM 21) DETAIL	LED IDENTII DACTETIC: S (IF ANY): _ ICATIONS F AND TUBI	ides a cart OR CATI	N OF MAI nd othe ridge a HODIC PR	erials To er chemi and/or o	D BE INJECTED, INC Loals as is ne coal bed filte AND OTHER CORR	25 Bb1/H LUDING ADDITION Eccessary to	VES: Fresh/pr maintain wat	oduced water treated er quality.	
20) MAXIM 21) DETAIL W/b 22) FILTER 23) SPECIF	LED IDENTII DACTETIC: S (IF ANY): _ ICATIONS F AND TUBI	ides a cart OR CATI	N OF MAT nd other ridge a HODIC PR GRAM CIFICATIONS	erials To er chemi and/or o	D BE INJECTED, INC Loals as is no coal bed filte LAND OTHER CORR	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL	ves: <u>Fresh/pr</u> maintain wat	oduced water treated er quality.	
20) MAXIM 21) DETAIL W/b 22) FILTER 23) SPECIF 24) CASING CASING OR TUBING TYPE	LED IDENTIIDACTERICS S (IF ANY): _ ICATIONS F C AND TUBI	Cart Cart OR CATH	NOF MAI nd other ridge and the second of t	FERIALS TO er chemi and/or co OTECTION	D BE INJECTED, INC Loals as is no coal bed filte AND OTHER CORR FOOTAGE For drilling	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL	CEMENT FILLUP OR SACKS (Cabbe feet)	oduced water treated er quality. PACKERS Kinds	
20) MAXIM 21) DETAIL W/b 22) FILTER 23) SPECIF	LED IDENTII DACTERIC: S (IF ANY): _ ICATIONS F	Cart Cart OR CATH	N OF MAI nd other ridge and HODIC PR GRAM CIFICATIONS Weight	TERIALS TO Er chemi and/or o OTECTION	D BE INJECTED, INC Loals as is ne coal bed filte LAND OTHER CORR	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL	CEMENT FILLUP OR SACKS (Cabbe feet)	oduced water treated er quality. PACKERS Kinds	
20) MAXIM 21) DETAIL W/b 22) FILTER 23) SPECIF 24) CASING CASING OR TUBING TYPE	LED IDENTIIDACTERICS S (IF ANY): _ ICATIONS F C AND TUBI	Cart Cart OR CATH	NOF MAI nd other ridge and the second of t	FERIALS TO er chemi and/or co OTECTION	D BE INJECTED, INC Loals as is no coal bed filte AND OTHER CORR FOOTAGE For drilling	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL INTERVALS Left in well	CEMENT FILLUP OR SACKS (Cabbe feet)	oduced water treated er quality. PACKERS Kinds	
20) MAXIM 21) DETAIL W/b 22) FILTER 23) SPECIF 24) CASING CASING OR TUBING TYPE Conductor Fresh water	LED IDENTIIDACTERICS (IF ANY): _ ICATIONS F G AND TUBI Star 8-5/8	Cart OR CATH	NOF MAI nd other ridge and Additional Control of the Control of	FERIALS TO ET Cheminand/or of COTECTION New Usee X	D BE INJECTED, INC Leals as is ne Le	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL INTERVALS Left in well	CEMENT FILLUP OR SACKS (Cabbe feet)	PACKERS Kinds ace Per 38 CSR-18-11:	
20) MAXIM 21) DETAIL W/b 22) FILTER 23) SPECIF 24) CASING OR TUBING TYPE Conductor Fresh water Coal	LED IDENTIIDACTERICS S (IF ANY): _ ICATIONS F C AND TUBI	Cart OR CATH	NOF MAI nd other ridge and the second of t	FERIALS TO er chemi and/or co OTECTION	D BE INJECTED, INC Loals as is no coal bed filte AND OTHER CORR FOOTAGE For drilling	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL INTERVALS Left in well	CEMENT FILLUP OR SACKS (Cabbe feet)	PACKERS Kinds ace Per 38 CSR-18-11.	
20) MAXIM 21) DETAIL W/b 22) FILTER 23) SPECIF: 24) CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate	LED IDENTIIDACTERICS (IF ANY): _ ICATIONS F G AND TUBI Star 8-5/8	Cart OR CATH	NOF MAI nd other ridge and Additional Control of the Control of	FERIALS TO ET Cheminand/or of COTECTION New Usee X	D BE INJECTED, INC Leals as is ne Le	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL INTERVALS Left is well 490 1	CEMENT FILLUP OR SACKS (Cabbe feet) Cmt to surf	PACKERS Kinds ace Fer 38 CSR-18-11:	
20) MAXIM 21) DETAIL W/E 22) FILTER 23) SPECIF 24) CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing	LED IDENTIIDACTERICS (IF ANY): _ ICATIONS F G AND TUBI Star 8-5/8	Cart OR CATH	NOF MAI nd other ridge and Additional Control of the Control of	FERIALS TO ET Cheminand/or of COTECTION New Usee X	D BE INJECTED, INC Leals as is ne Le	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL INTERVALS Left is well 490 1	CEMENT FILLUP OR SACKS (Cabbe feet) Cmt to surf	PACKERS Kinds ace Fer 38 CSR-18-11:	
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20) MAXIM 21) DETAIL W/E 22) FILTER 23) SPECIF 24) CASING CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production	LED IDENTIIDACTERICS (IF ANY): _ ICATIONS F G AND TUBI Star 8-5/8	Cart OR CATH	NOF MAI nd other ridge and Additional Control of the Control of	FERIALS TO ET Cheminand/or of COTECTION New Usee X	D BE INJECTED, INC Leals as is ne Le	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL INTERVALS Left is well 490 1	CEMENT FILLUP OR SACKS (Cabbe feet) Cmt to surf	PACKERS Kinds ace Per 38CSR-18-11: Sizes Depths selver 38CSR-18-	
20) MAXIM 21) DETAIL W/E 22) FILTER 23) SPECIF 24) CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing	LED IDENTIIDACTERICS (IF ANY): _ ICATIONS F G AND TUBI Star 8-5/8	Cart OR CATH	NOF MAI nd other ridge and Additional Control of the Control of	FERIALS TO ET Cheminand/or of COTECTION New Usee X	D BE INJECTED, INC Leals as is ne Le	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL INTERVALS Left is well 490 1	CEMENT FILLUP OR SACKS (Cabbe feet) Cmt to surf	PACKERS Kinds ace Per 38 CSR-18-11: Sizes Depths selev 38 CSR-18-	
20) MAXIM 21) DETAIL W/b 22) FILTER 23) SPECIF 24) CASING CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing Liners	LED IDENTIID DACTERICS (IF ANY): _ ICATIONS F G AND TUBI Star 8-5/8 4-1/2	Cart Cart OR CATH	NOFMAI nd other ot	PERIALS TO	D BE INJECTED, INC Leals as is ne Le	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL INTERVALS Left in well 490 ' 3190 '	CEMENT FILLUP OR SACKS (Cabbe feet) Cmt to surf	PACKERS Kinds ace Per 38CSR-18-11: Sizes Depths selev 38CSR-18-	
20) MAXIM 21) DETAIL W/b 22) FILTER 23) SPECIF 24) CASING CASING OR TUBING TYPE Conductor Fresh water Coal Intermediate Production Tubing Liners 25) APPLIC	LED IDENTIID DACTERICS (IF ANY): _ ICATIONS F G AND TUBI Star 8-5/8 4-1/2	Cart Cart OR CATH NG PROC SPEC Grade H-40 J-55	NOF MAI nd other o	PERIALS TO	D BE INJECTED, INC Leals as is ne Le	25 Bb1/H LUDING ADDITIVE CESSARY to ETS OSION CONTROL INTERVALS Left in well 490 ' 3190 '	CEMENT FILLUP OR SACKS (Cabbe feet) Cmt to surf	PACKERS Kinds ace Per 38CSR-18-11: Sizes Depths selev 38CSR-18-	

FORM WW-3(A) **Obverse**

Date May 29, 1990

Operator's

2) Well No. F. R. BALL NO.

3) SIC Code

4) API Well No. 47 095 -14/6-0 State County Permit

ATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION for the

DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

6) SURFACE OWNER(S) OF RECORD TO BE SERVED	7 (i)	COAL OPERATOR
(i) NameVernon D. & Eliz. Delong		Address
Address Alvy, W. Va. 26322 Ralph Hayes, Jacksonburg, WV 26377	7 (ii)	COAL OWNER(S) WITH DECLARATION ON RECORD:
(ii) Name John W.I. Jones & JoAnn & Kevi	n Leland	Name Address
Address 720 James Street New Martinsville, WV 26155	7 (iii)	COAL LESSEE WITH DECLARATION ON RECORD:
(iii) Name Raymond V. & Norma S. Davis Address General Delivery		NameAddress
Alvy, W. Va. 26322		

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and

The plat (surveyor's map) showing the well location on Form WW-6; and

The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director.

The person signing this document shall make the following certification:

> "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. am aware that there are significant penalties for Telephone 304-422-6565 submitting false information, including the possibility of fine and imprisonment.

	Pennz	oil P	roducts	Company		
Ву_	fer,	ell (perator	Timothy	Р.	Roush
	/ "	y				

Its Supervisor, Surveying/Mapping

DEPARTMENT OF ENERGY



1) D	ate:	May	<u>29</u>	,			19_8	6
	perator's Vell No		F.	R.	Ball	#20		
3) S	IC Code							H
4 A	Pi Well N	10.	47		- 09	5 -	11:	39-LI
			S	tate	Coi	unty	Perm	t

5. UIC Permit No.

	J. 18			STATE OF WE	ST VIRGINIA	1.1	atherina National
NOT	CICE OF	LIQUID	INJECTION	OR WASTE D	ISPOSAL WEL	L WORK PERMIT	APPLICATION
Ü	4:1000	Guss		for	the	1	
- 7		-					* 3%

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION DIVISION OF OIL & CAO

6) 7)	WELL TYP			n_X_/ 1235	Gas ir	nj e ction		-	17 7. <u>1000</u>	t/T,
',	LOCATIO	Distri		McElroy	,		Waters County	77	Oundronals	Centerpoint 7.5'
R)	WELL OPE			nnzoil		nany	County	9) DESIGNAT	•	James A. Crews
υ,		dress		O. Box						2.0. Box 1588
	710	11033		rkersbu			. 26102			Parkersburg, WV
10)	OIL & GAS	INSPEC				-Na-VU			·	arkersburg, WV
10,	Name	Dal	pert L		ILD	, ·	s in the	11) DOLLLING	CONTRACTOR:	
	Address _	Car		Deliver	^v			Name	CONTRACTOR:	* • • • • • • • • • • • • • • • • • • •
	Mulicos _			urne, V		2614	9	Address_		
	-			,			***	Addiess_		
12)	PROPOSEI	WELL V	WORK:	Drill	Χ	_/ Dril	deeper	/ Redrill	/ Stimulate	/
,							ion/ Perforate ne			
							in well (specify)			
13)	GEOLOGIC	CAL TAR	GET FOR	MATION,			Gordon 41	I	Depth3121fee	t(top) to_3141_feet(bottom)
14)	Estimated d	epth of co	mpleted v	vell, (or ac	tual de	pth of e	xisting well) 319	6ft.		, , , , , , , , , , , , , , , , , , , ,
15)	Approximat	e water st	rata depth	s; Fresh,	10	00	feet; salt,1	835feet.		
16)	Approximat				1035	5				
17)	Is coal bein	g mined in	the area?	Yes	./ N o	<u>X</u> /			-	
18)	Virgin reserv						psig. Source	Estimated		
19)	Estimated re				-	3500	psi	psig (BHFP)		
20)	MAXIMUN	1 PROPOS	SED INJE	CTION O	PERA	TIONS:			Bottom hole press	sure2332_psi
21)	DETAILED	IDENTIF	ICATIO	N OF MAT	ERIA	LS TO B	E INJECTED, INCLU	JDING ADDITIVI	s: Fresh/pro	duced water treate
	<u>with</u>	bacte	ricide	s and	othe	er che	emicals as is	necessarv	to maintain w	ater quality
22)	FILTERS (I	F ANY): _	Са	ırtrida	e an	id/or	coal bed fil	ters		
				-		-	ND OTHER CORRO			
			•							
24)	CASING A	ND TUBI	NG PROC	GRAM						
	SING OR	l	SPEC	IFICATIONS			FOOTAGE IN	TERVALS	CEMENT FILLUP	PACKERS
TU	BING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Cond	luctor								(Cubit lati)	Kinds
Frest	water	7	H-40	20#	X		1085	1085	cement to s	<u> </u>
Coal								1005	Cement to S	Sizes
Inter	mediate									
Prod	uction	4-1/2	J 5 5	9.5	Х		3196	3196	250 sks	Depths set
Tubi	ng								50/ 1 50 posmi	4
Line	s									Perforations:
										Top Bottom
				,						
25)	APPLICAN	T'S OPE	RATING I	RIGHTSw	ere aco	uired fro	omF. I	R. Ball		
•	by deed			other co	-			September	11, ,x,x,	1895, of record in the
	-	Tyle					office in	Lease	Book 27	at page 309