



207 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1331

S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC. TREAS.

April 30, 1986

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Att: David Catanach

Dear Sir:

RE: Eagle Creek Pilot Waterflood Case #7935, Order #R-7354 & WFX-541
Injection Pressure Increase Request

Yates Petroleum Corporation requests an increase in surface injection pressure limits for the following wells in the Eagle Creek Pilot Waterflood:

<u>Well</u>	<u>Current Limit</u>	<u>Requested Limit</u>
Gissler "AV" 20	260 psi	475 psi
Gissler "AV" 43	330 psi	600 psi

Step rate tests for the subject wells are attached.

Sincerely,

David L. Lanning
Petroleum Engineer

DLL:tp

Attachments

B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company Yates Petroleum Corp.							Test Date 4-24-86	Unit
Total Depth 1500' Plug Back TD 1494' Elevation 3502' GR							Lease Gissler "AV"	
Csg size 4 1/2 Wt d Set at Perfs: From 1297.5 To 1419.5							Well # 20	
Tbg size 2 3/8 Wt d Set at Perfs: From -- To							Sec Twp-Blk Rge	
Producing thru tbg Packer set at 1267							County State	
							Co. Rep Daryl Atkins	
Well Information								
Time of Reading	Elap Time Hrs.	Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	Remarks	
10:40	Shut in			220			1" T.M.	
10:45	Start	100		220				
10:50		100		230				
10:55		100		242				
11:00	:15	100	1.0	245				
11:05		200		255				
11:10		200		263				
11:15	:30	200	2.1	268				
11:20		300		282				
11:25		300		295				
11:30	:45	300	3.2	298				
11:35		400		307				
11:40		400		320				
11:45	1:00	400	4.2	331				
11:50		500		345				
11:55		500		361				
12:00	1:15	500	5.2	367				
12:05		600		385				
12:10		600		397				
12:15	1:30	600	6.2	410				
12:20		700		425				
12:25		700		435				
12:30	1:45	700	7.3	443				
12:35		800		456				
12:40		800		468				
12:45	2:00	800	8.3	481				
12:50		1000		515			Start Pumping	
12:55		1000		532				
1:00	2:15	1000	10.4	540				
Shut down for 5 minutes - Remove filter								
See page #2								

Step Rate Test

Hobbs, New Mexico 88240

Phone (505) 397-3914

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Surface PSI

Linear Regression
Line 536 psi

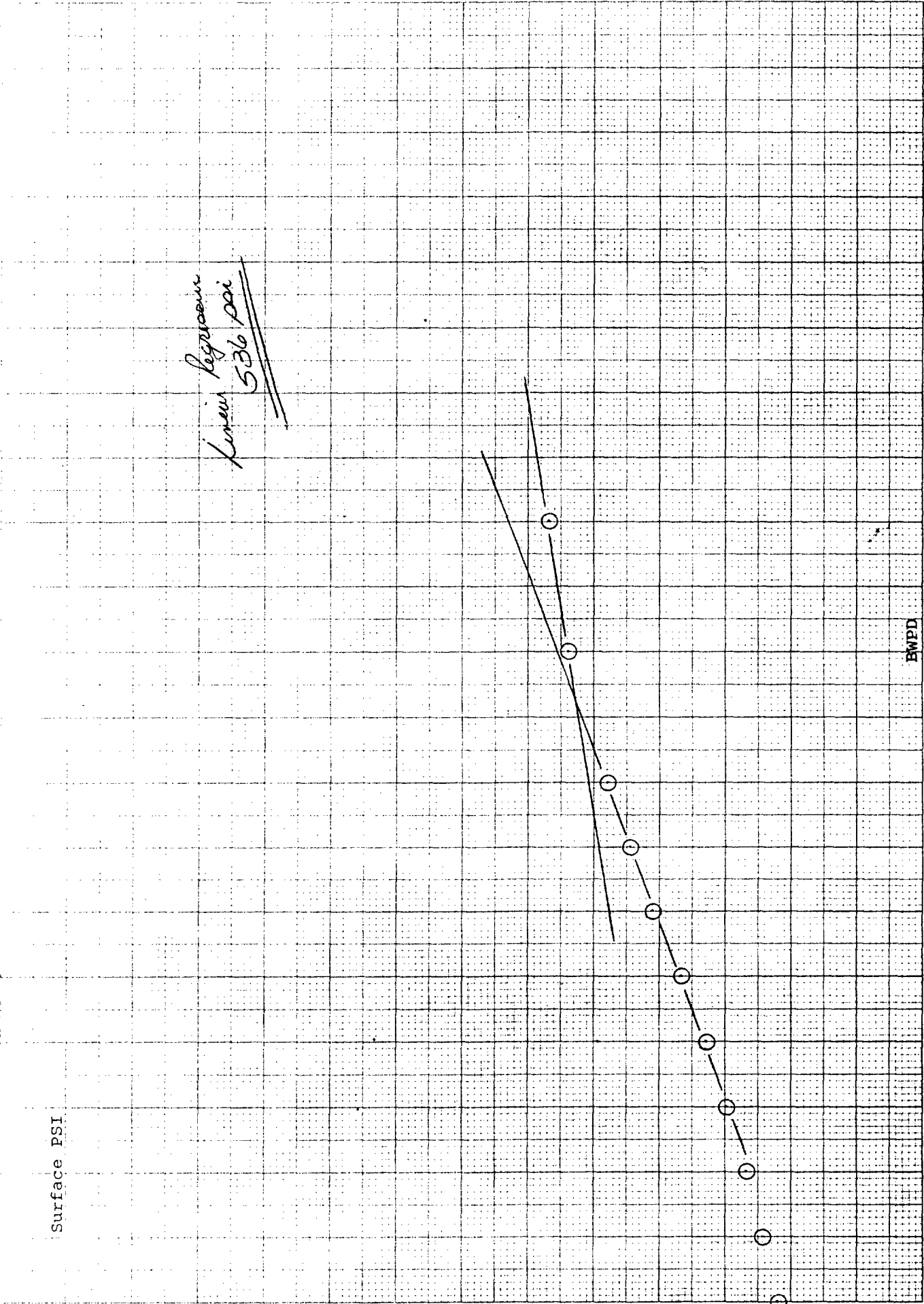
y

x

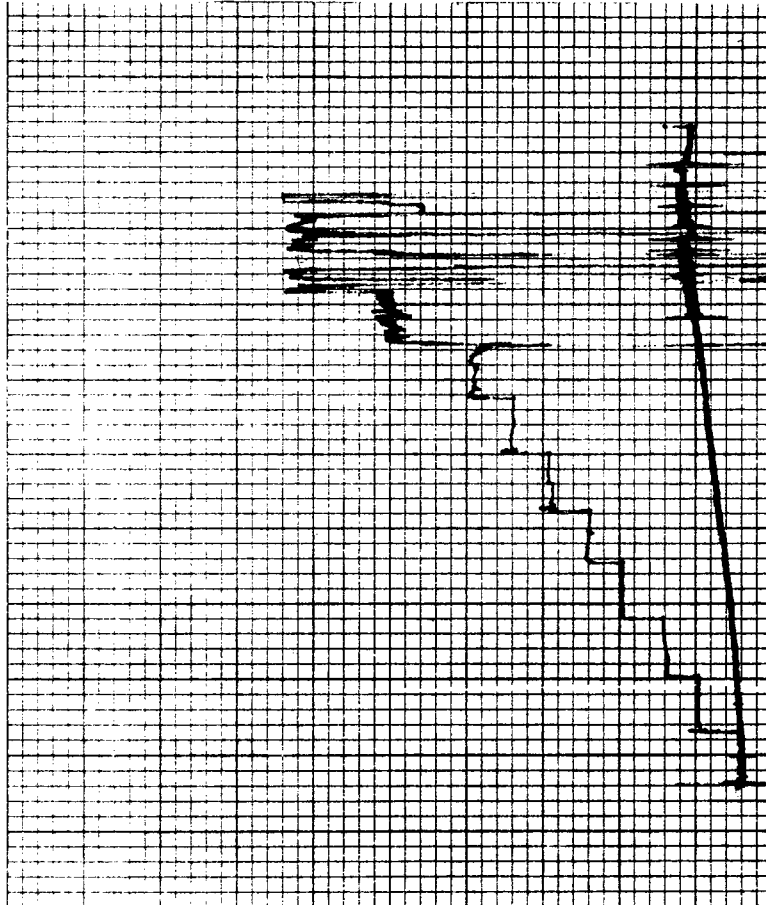
BWPD

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900

1300
1200
1100
1000
900
800
700
600
500
400
300
200
100



Yates Petroleum Corp.
Gissler "AV" #20
4-24-86



B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company Yates Petroleum Corp.						Test Date 4-24-86		Unit
Total Depth						Plug Back TD 1490		Lease Gissler "AV"
Csg size 4 1/2" Wt d						Set at		Well # 43
Tbg size 2 3/8 Wt d						Perfs: From 1302 To 1418.5		Sec Twp-Blk Rge
Producing thru						Packer set at 1268		County State
								Co. Rep Daryl Atkins
Time of Reading	Elap Time Hrs.	Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	Remarks	
2:10	Shut in			230			1" T.M.	
2:15	Start	100		230				
2:20		100		245				
2:25		100		260				
2:30	:15	100	1.0	268				
2:35		200		285				
2:40		200		301				
2:45	:30	200	2.1	310				
Injection systme down for 5 minutes								
2:50	Restart	300		310				
2:55		300		327				
3:00		300		340				
3:05	:45	300	3.1	350				
3:10		400		375				
3:15		400		395				
3:20	1:00	400	4.1	405				
3:25		500		432				
3:30		500		448				
3:35	1:15	500	5.2	465				
3:40		600		495				
3:45		600		510				
3:50	1:30	600	6.2	525				
3:55		700		552				
4:00		700		565				
4:05	1:45	700	7.3	575				
4:10		800		595				
4:15		800		615				
4:20	2:00	800	8.4	625				
4:25		900		645				
4:30		900		660				
4:35	2:15	900	9.4	665				
Down for 10 minutes - Restart @ 900 BPD until 665 PSI is obtained								

Step Rate Test

Hobbs, New Mexico 88240

Company Yates Petroleum Corp.

Test Date 4-24-86

Lease Gissler "AV"

Elevation

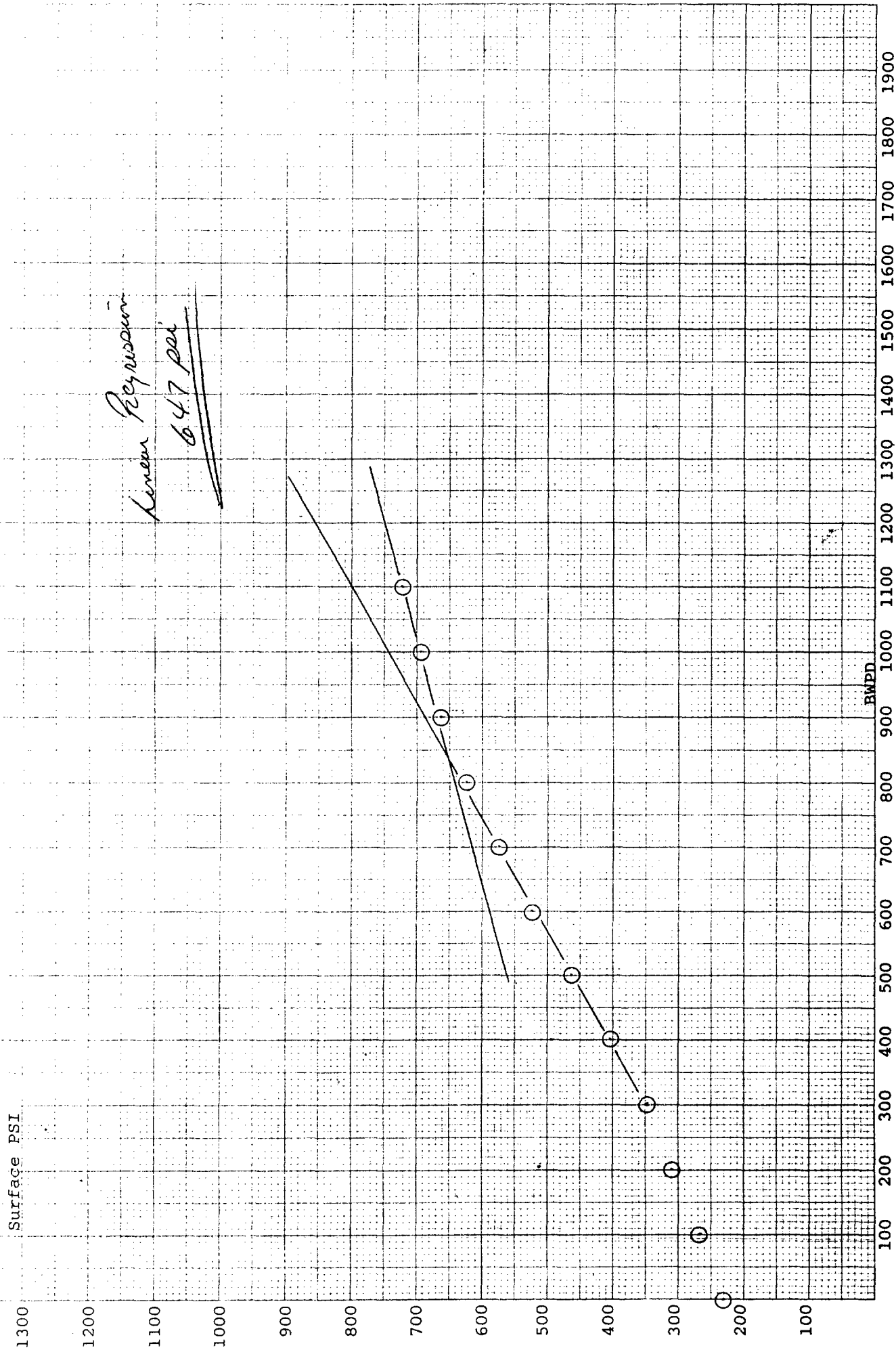
Sec	Twp-Blk	Rge
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Sec	Twp-Blk	Rge
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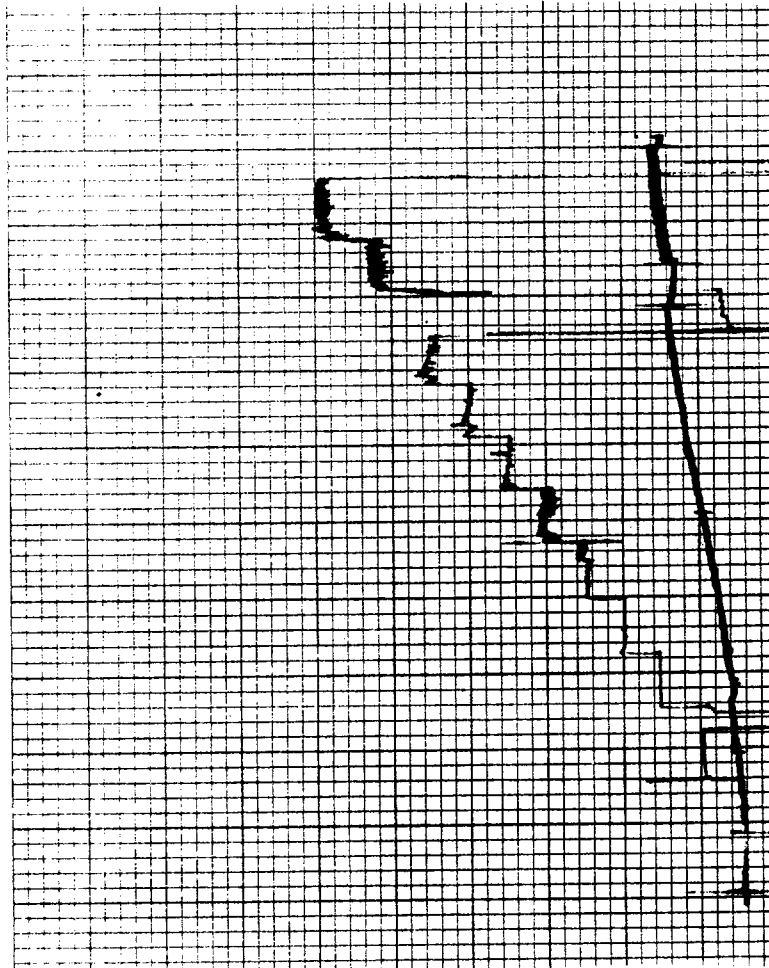
County	State
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Co. Rep Daryl Atkins

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Yates Petroleum Corp.
Gissler "AV" #43
4-24-86



CORPORATION BUFFALO, NEW YORK