

MURPHY H. BAXTER

814 BUILDING OF THE SOUTHWEST

TELEPHONE 915-684-6307

MIDLAND, TEXAS 79701

June 14, 1985

MAIL ADDRESS

P. O. BOX 2040

MIDLAND, TEXAS 79702

Oil Conservation Division
Larry Brooks
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: North EK Queen Unit 2-3
Lea County, New Mexico
Convert to Water Injection

Dear Mr. Brooks:

Enclosed are the results from the step rate test done on the North EK Queen 2-3 on 6-11-85. I trust this information will be sufficient for assignment of a maximum injection pressure.

Cities Service Oil Company and Phillips Petroleum Company are offset operators to our lease and are included in the area of review for our well 2-3. Since they both have working interest in our unit I have enclosed copies of approved AFEs from them concerning the conversion work done on this well.

If you have any questions concerning this matter please call me. Your immediate consideration would be appreciated.

Yours truly;



Chuck Sledge
Petroleum Engineer

Attachments

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MIDLAND, TEXAS 79701

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P. O. BOX 2040
MURPHY BAXTER
MIDLAND, TEXAS 79702

October 25, 1984

NOV 16 1984

Midland, Texas

AFE 84-021

North EK Queen Unit 2-3
Lea County, New Mexico

Clean Out Well Bore and
Convert Well to Water Injection

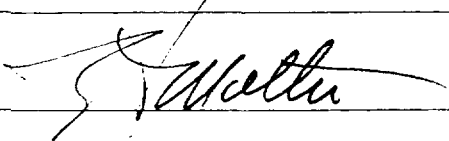
Estimated Expenditures:

Pulling Unit time and tools	\$3,000.00
Reverse Unit and tools	1,000.00
Rental equipment (BOPs)	400.00
Acid treatment	1,500.00
Equipment (4 1/2" Packer)	1,000.00
Misc	1,000.00

Total AFE	\$7,900.00
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Approved by:

Cities Service Oil Company



0.342389 Shares = \$2,704.87

Date:

11-9-84

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814 BUILDING OF THE SOUTHWEST

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MIDLAND, TEXAS 79701

NOV 12 1984

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MAIL ADDRESS

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Equipment (4 1/2" Packer)	1,000.00
Misc	1,000.00

Total AFE

\$7,900.00

Approved by:

Phillips Petroleum Company

0.071415 Shares = \$564.17

W. R. Phillips Agent

Date: 10-30-84

B & D WELL TESTERS
Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

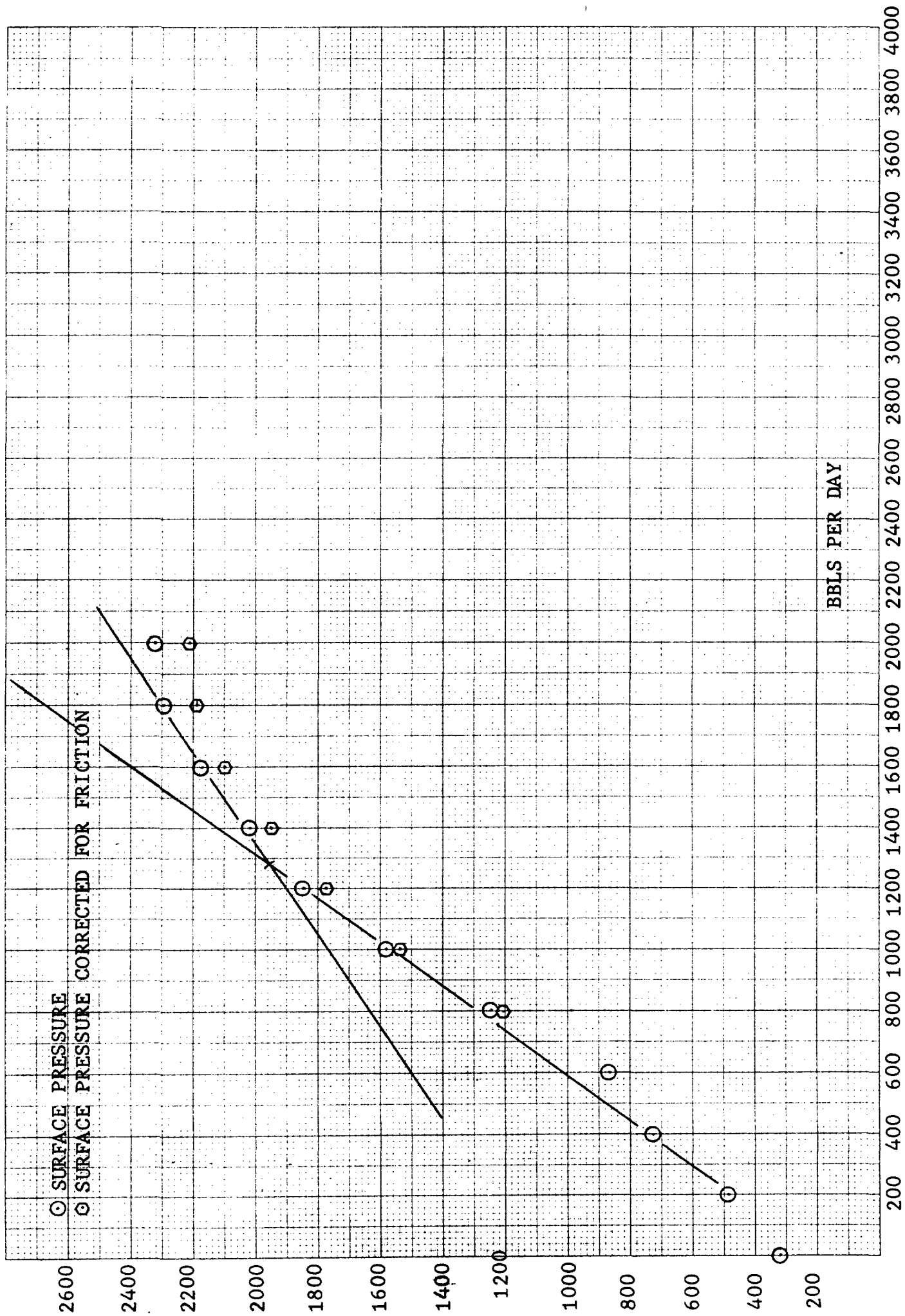
Company Murphy H. Baxter				Test Date 6-11-85		Unit
Total Depth		Plug Back TD 4031'		Elevation		Lease North E. K. Queen
Csg size 4½	Wt	d	Set at	Perfs: From 3984' To 4006'		Well # 2-3
Tbg size 2 3/8	Wt	d	Set at	Perfs: From		To
Producing thru				Packer set at 3842'		Sec Twp-Blk Rge
						County Lea State NM
						Co. Rep Alvin Woods

Time of Reading	Elap Time Hrs.	Well Information					Remarks
		Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	
		Shut In		320			
8:10	start			320			
8:15		200		440			
8:20		200		470			
8:25	15	200	2.1	486			
8:30		400		642			
8:35		400		698			
8:40	30	400	4.2	735			
8:45		600		793			
8:50		600		830			
8:55	45	600	6.2	862			
9:00		800		1091			Start pumping
9:05		800		1189			
9:10	1hr	800	8.3	1241	1218		-23
9:15		1000		1452			1½" TM
9:20		1000		1534			
9:25	15	1000	10.4	1582	1542		-40
9:30		1200		1718			
9:35		1200		1781			
9:40	30	1200	12.4	1841	1778		-56
9:45		1400		1942			
9:50		1400		1985			
9:55	45	1400	14.5	2015	1951		-64
10:00		1600		2092			
10:05		1600		2143			
10:10	2hr	1600	16.6	2172	2100		-72
10:15		1800		2246			
10:20		1800		2281			
10:25	15	1800	18.7	2296	2193		-103

Phone (505) 397-3914

						Unit		
Company Murphy H. Baxter				Test Date 6-11-85		Lease North E. K. Queen		
Total Depth		Plug Back TD 4031'		Elevation		Well # 2-3		
Csg size 4½	Wt	d	Set at	Perfs: From 3984' To 4006'		Sec	Twp-Blk	Rge
Tbg size 2 3/8	Wt	d	Set at	Perfs: From To		County Lea	State NM	
Producing thru			Packer set at 3842'			Co. Rep Alvin Woods		

B-6615



A hand-drawn map on a grid background, showing a coastline. The coastline starts at the top left, goes down, then right, then down again, and finally right. There are several small, dark, irregular shapes along the coastline, possibly representing islands or rocks. The map is drawn with black ink on a white grid.

NO. 59018

B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company Murphy H. Baxter						Test Date 6-11-85		Unit
Total Depth		Plug Back TD 4031'		Elevation		Lease North E. K. Queen		
Csg size 4 1/2	Wt	d	Set at	Perfs: From 3984' To 4006'		Well # 2-3	Sec Twp-Blk Rge	
Tbg size 2 3/8	Wt	d	Set at	Perfs: From To		County Lea	State NM	
Producing thru		Packer set at 3842'				Co. Rep Alvin Woods		
Time of Reading	Elap Time Hrs.	Well Information					Remarks	
		Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP		
		Shut In		320				
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8:30		400		642				
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8:55	45	600	6.2	862				
9:00		800		1091			Start pumping	
9:05		800		1189				
9:10	1hr	800	8.3	1241	1218		-23	
9:15		1000		1452			1 1/2" TM	
9:20		1000		1534				
9:25	15	1000	10.4	1582	1542		-40	
9:30		1200		1718				
9:35		1200		1781				
9:40	30	1200	12.4	1841	1778		-56	
9:45		1400		1942				
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9:55	45	1400	14.5	2015	1951		-64	
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10:10	2hr	1600	16.6	2172	2100		-72	
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10:25	15	1800	18.7	2296	2193		-103	

Step Rate Test

Hobbs, New Mexico 88240

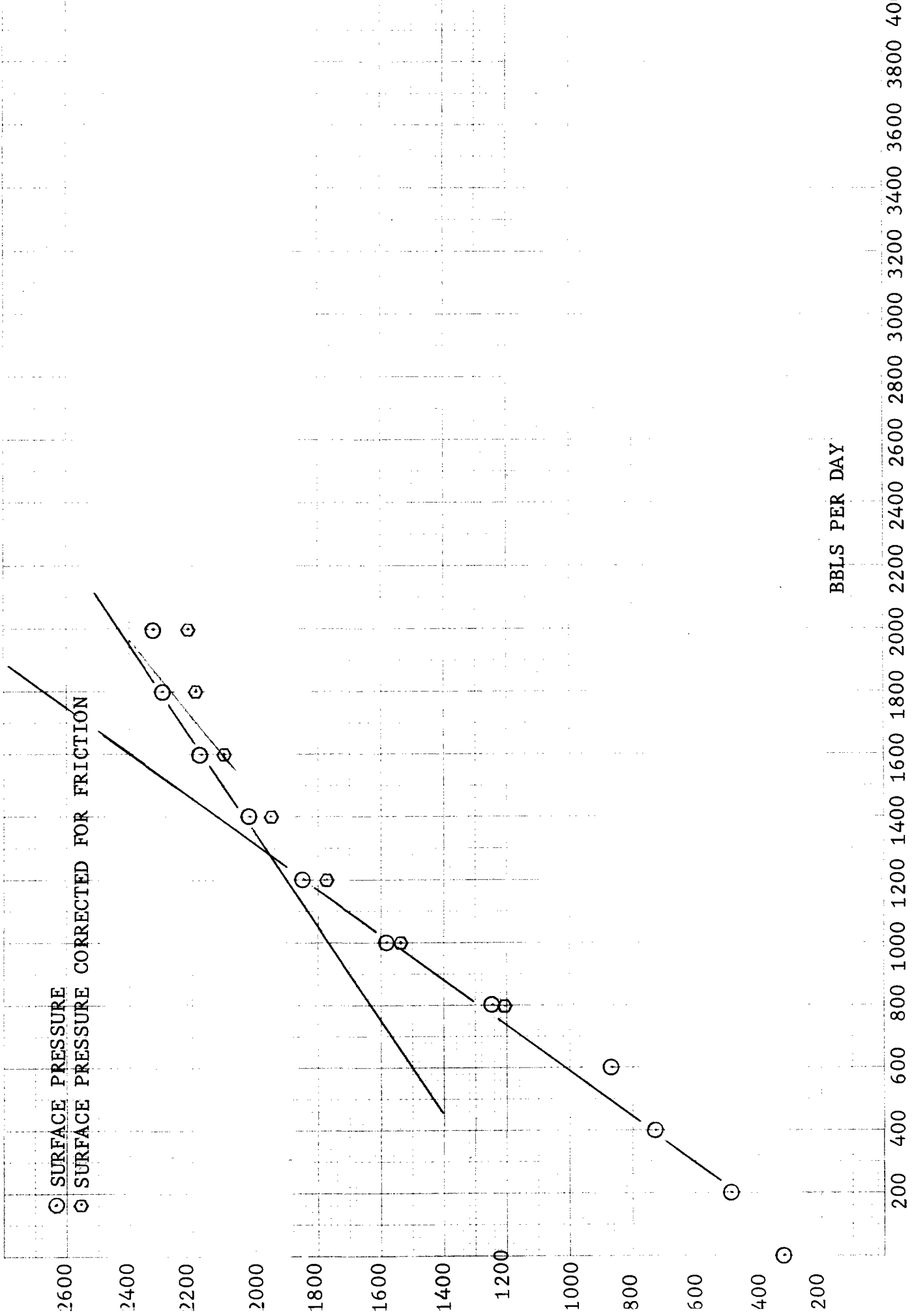
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Murphy H. Baxter North E. K. Queen 2-3 6-11-85

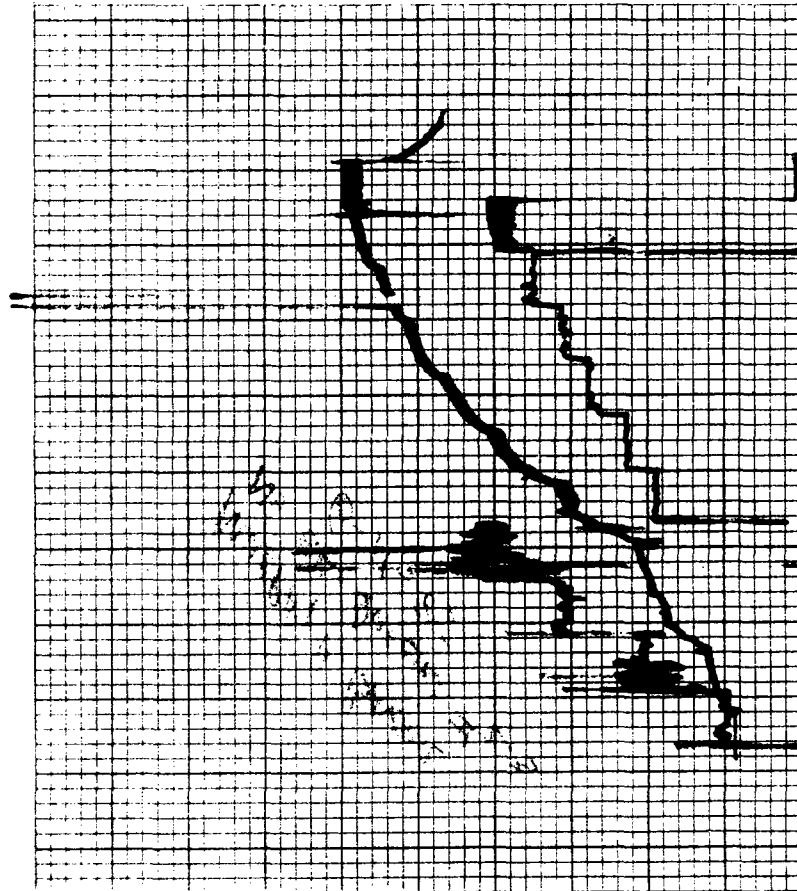
○ SURFACE PRESSURE

○ SURFACE PRESSURE CORRECTED FOR FRICTION

BBLS PER DAY



MURPHY H. BAXTER
NORTH E. K. QUEEN #2-3
6-11-85



NO. 59018