

REPORT OF PRODUCTION AND INJECTION  
FOR 1974, PERTAINING TO THE  
PRESSURE MAINTENANCE BY WATER  
FLOODING PROJECT FOR THE  
EAST ROUTLEDGE UNIT NO. 1

SAMEDAN OIL OF CANADA, INC.  
730 ELVEDEN HOUSE  
717 - 7th AVENUE S.W.  
CALGARY, ALBERTA  
T2P 0Z3

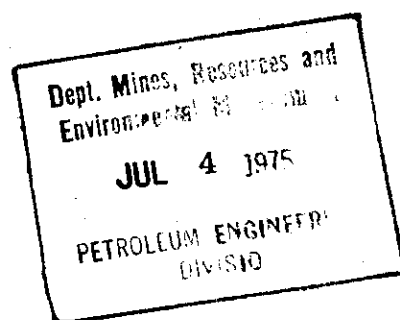
TELEPHONE: (403) 265-7493

June 27, 1975

Mr. F. S. Gamey  
Petroleum Engineering Division  
993 Century Street  
Winnipeg, Manitoba  
R3H 0W4

Dear Sir:-

Re: East Routledge Unit No. 1  
Manitoba, Canada



Enclosed is the following:

Report of production and injection operations  
for 1974, pertaining to the Pressure Maintenance  
by Water Flooding Project for the EAST ROUTLEDGE  
UNIT NO. 1.

Copies of this report will be sent to all Working  
Interest Owners.

Yours very truly,  
SAMEDAN OIL OF CANADA, INC.

Handwritten signature of Fred W. Kelly.

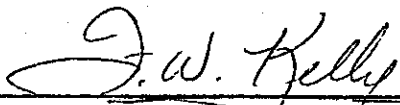
Fred W. Kelly  
DIVISION PRODUCTION SUPERINTENDENT

FWK:bab  
Enclosures

Copies: Working Interest Owners  
East Routledge Unit No. 1

EAST ROUTLEDGE UNIT NO. 1

1974 ANNUAL REPORT

  
FRED W. KELLY

EAST ROUTLEDGE UNIT NO. 1

1974 Annual Report

This report is presented as an Annual Summary of the production and injection activities for 1974 at the East Routledge Unit No. 1, operated by Samedan Oil of Canada, Inc. The information herein complies with that requested by Order No. PM 20, Rule 8 (2).

Enclosed is the following:

1. Table 1 - 1974 Annual Summary of Unit Operation & Production.
2. Table 2 - 1974 Monthly Summary of Unit Operations & Production.
3. Table 3 - 1974 Treatment & Workover Summary.
4. Figure 1 - East Routledge Unit No. 1 - Production.
5. Figure 2 - East Routledge Unit No. 1 - Injection.
6. Figure 3 through 24 - Individual Well Production.
7. Figure 25 through Figure 29 - Individual Well Injection.

We trust this report will adequately evaluate the performance of the pressure maintenance program at the above area.

TABLE 1

1974 ANNUAL SUMMARY OF UNIT OPERATIONS AND PRODUCTIONOil Production - BBLs.

1974 Unit Production	100,748
----------------------	---------

Water Production - BBLs.

1974 Unit Production	336,879
----------------------	---------

Supply Water - BBLs.

1974 Water Supply	713,451
-------------------	---------

Water Injection - BBLs.

1974 Injection	1,050,330
Plant Injection Pressure (December 1974)	1350#

Net Injection - RSVR. BBLs.

1974 Balance	+607,665
--------------	----------

EAST ROUTE UNIT NO. 1  
SUMMARY OF UNIT OPERATIONS AND PRODUCTION

FIRST HALF: 1974  
SECOND HALF:  
DATE: JUNE 30, 1974

CUMULATIVE OIL PRODUCTION PRIOR TO UNITIZATION ON 5-15-72 - 1,466,076 BARRELS  
CUMULATIVE WATER PRODUCTION PRIOR TO UNITIZATION ON 5-15-72 - 2,388,966 BARRELS

OIL PRODUCTION - BBLs.

Monthly Production  
Daily Average  
Cumulative Unit Production

WATER PRODUCTION - BBLs.

Monthly Production  
Daily Average Production  
Percent Water Cut  
Cumulative Unit Production

SUPPLY WATER - BBLs.

Monthly Water Supply  
Daily Average Supply  
Cumulative Water Supply

WATER INJECTION - BBLs.

Monthly Injection  
Daily Average Injection  
Cumulative Injection  
Plant Injection Pressure

NET INJECTION - RSVR. BBLs.

Monthly Balance  
Daily Average Balance

WELL STATUS

Producers  
Closed in Producers  
Injection Wells  
Closed in Injection Wells  
TOTAL

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
8,580	7,270	8,964	9,422	9,274	8,822
277	260	289	314	299	294
200,895	208,165	217,129	226,551	235,825	244,647
26,600	24,150	29,030	29,582	30,416	29,988
858	863	936	986	981	999
75.61	76.86	76.41	75.84	76.63	77.27
616,088	640,238	669,268	698,850	729,266	759,254
57,100	52,304	54,314	52,173	56,538	56,109
1,842	1,868	1,752	1,739	1,824	1,870
497,764	550,068	604,382	656,555	713,093	769,202
83,700	76,454	83,344	81,755	86,954	86,097
2,700	2,731	2,689	2,725	2,805	2,870
928,534	1,004,988	1,088,332	1,170,087	1,257,041	1,343,138
1,500#	1,500#	1,450#	1,450#	1,470#	1,450#
+ 48,091	+ 44,670	+ 44,902	+ 42,280	+46,800	+ 46,846
+ 1,551	+ 1,595	+ 1,448	1,409	+ 1,510	+ 1,562
22	22	22	22	22	22
--	--	--	--	--	--
5	5	5	5	5	5
--	--	--	--	--	--
27	27	27	27	27	27

FWK/cnf  
8/9/73

**EAST ROUTLE E UNIT NO. 1**  
**SUMMARY OF UNIT OPERATIONS AND PRODUCTION**

FIRST HALF: )

SECOND HALF: 1974

DATE: December 31, 1974

CUMULATIVE OIL PRODUCTION PRIOR TO UNITIZATION ON 5-15-72 -- 1,466,076 BARRELS  
CUMULATIVE WATER PRODUCTION PRIOR TO UNITIZATION ON 5-15-72 - 2,388,966 BARRELS

**OIL PRODUCTION - BBLS.**

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
Monthly Production	8,972	8,675	8,247	7,446	7,463	7,613
Daily Average	289	280	275	240	249	246
Cumulative Unit Production	253,619	262,294	270,541	277,987	285,450	293,063

**WATER PRODUCTION - BBLS.**

Monthly Production	29,197	29,414	28,187	24,765	27,348	28,202
Daily Average Production	942	980	940	799	912	910
Permeant Water Cut	76.49	77.22	77.36	76.88	78.56	78.74
Cumulative Unit Production	788,451	817,865	846,052	870,817	898,165	926,367

**SUPPLY WATER - BBLS.**

Monthly Water Supply	52,612	52,225	55,160	66,243	77,443	81,230
Daily Average Supply	1,697	1,741	1,839	2,137	2,581	2,620
Cumulative Water Supply	821,814	874,039	929,199	995,442	1,072,885	1,154,115

**WATER INJECTION - BBLS.**

Monthly Injection	81,809	81,639	83,347	91,008	104,791	109,432
Daily Average Injection	2,639	2,721	2,778	2,936	3,493	3,530
Cumulative Injection	1,424,947	1,506,586	1,589,933	1,680,941	1,785,732	1,895,164
Plant Injection Pressure	1,460#	1,450#	1,450#	1,400#	1,400#	1,300#

**NET INJECTION - RSVR. BBLS.**

Monthly Balance	+ 43,191	+ 43,116	+ 46,501	+ 58,425	+ 69,607	+ 73,236
Daily Average Balance	+ 1,393	+ 1,390	+ 1,550	+ 1,885	+ 2,320	+ 2,362

**WELL STATUS**

Producers	21	21	21	20	20	20
Closed in Producers	1	1	1	-	-	-
Injection Wells	5	5	5	7	7	7
Closed in Injection Wells	-	-	-	-	-	-
TOTAL	27	27	27	27	27	27

FWK/caf  
8/9/73

TABLE 3

1974 TREATMENT & WORKOVER SUMMARY

<u>MONTH</u>	<u>WELL</u>	<u>* TREATMENT /W.O.</u>
JANUARY	9-10	BHP
	4-11	BHP
	5-13	BHP
FEBRUARY	11-11	BHP
	3-14	BHP
	7-14	BHP
MARCH	1-10	4.0 bbl.
	3-11	4.0 bbl.
	4-11	4.0 bbl.
	5-11	4.0 bbl.
	6-11	4.0 bbl. & BHP
	5-12	4.0 bbl.
	2-14	6.0 bbl.
	3-14	6.0 bbl. & BHP
	9-14	6.0 bbl.
	10-14	4.0 bbl. & BHP
APRIL	1-14	BHP
MAY	7-11	4.0 bbl.
	1-14	4.0 bbl.
	7-14	6.0 bbl.
	8-14	6.0 bbl.
JULY	5-13	BHP
	3-14	BHP
AUGUST	1-10	BHP
	15-11	BHP
	11-14	BHP

TABLE 3  
1974 TREATMENT & WORKOVER SUMMARY  
CONTINUED

<u>MONTH</u>	<u>WELL</u>	<u>* TREATMENT/W.O.</u>
SEPTEMBER	1-11	BHP
	11-11	BHP
OCTOBER	1-10	BHP
	9-10	BHP
	13-11	BHP
	5-13	BHP
	1-14	BHP

\* TREATMENT: all treatments were TRAV CHEM T328 mixed 1:1 with fresh water.

\* BHP: bottom hole pump replaced.

# EAST ROUTLEDGE UNIT #1 - PRODUCTION

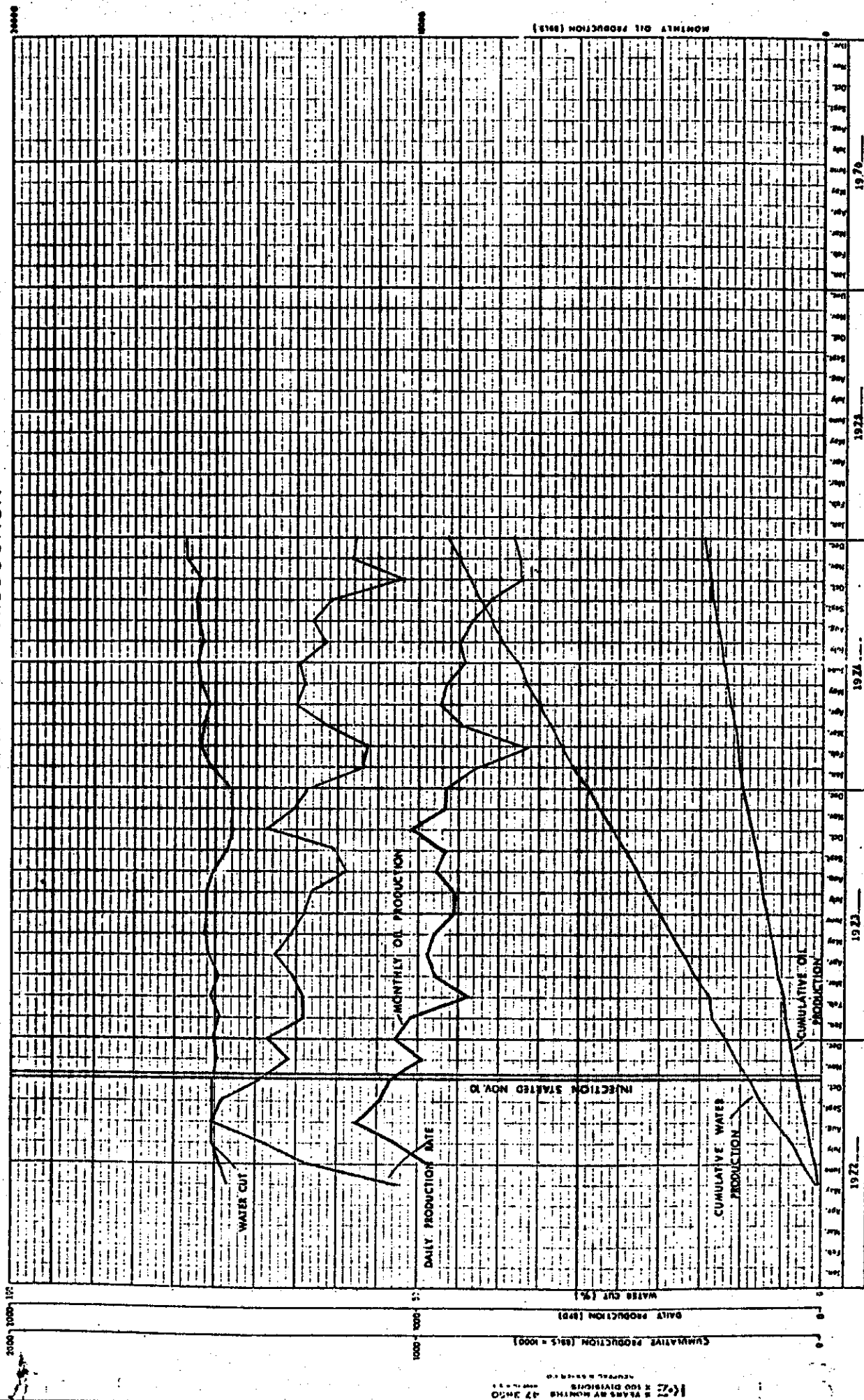


FIGURE 1

# EAST ROUTLEDGE UNIT #1 - INJECTION

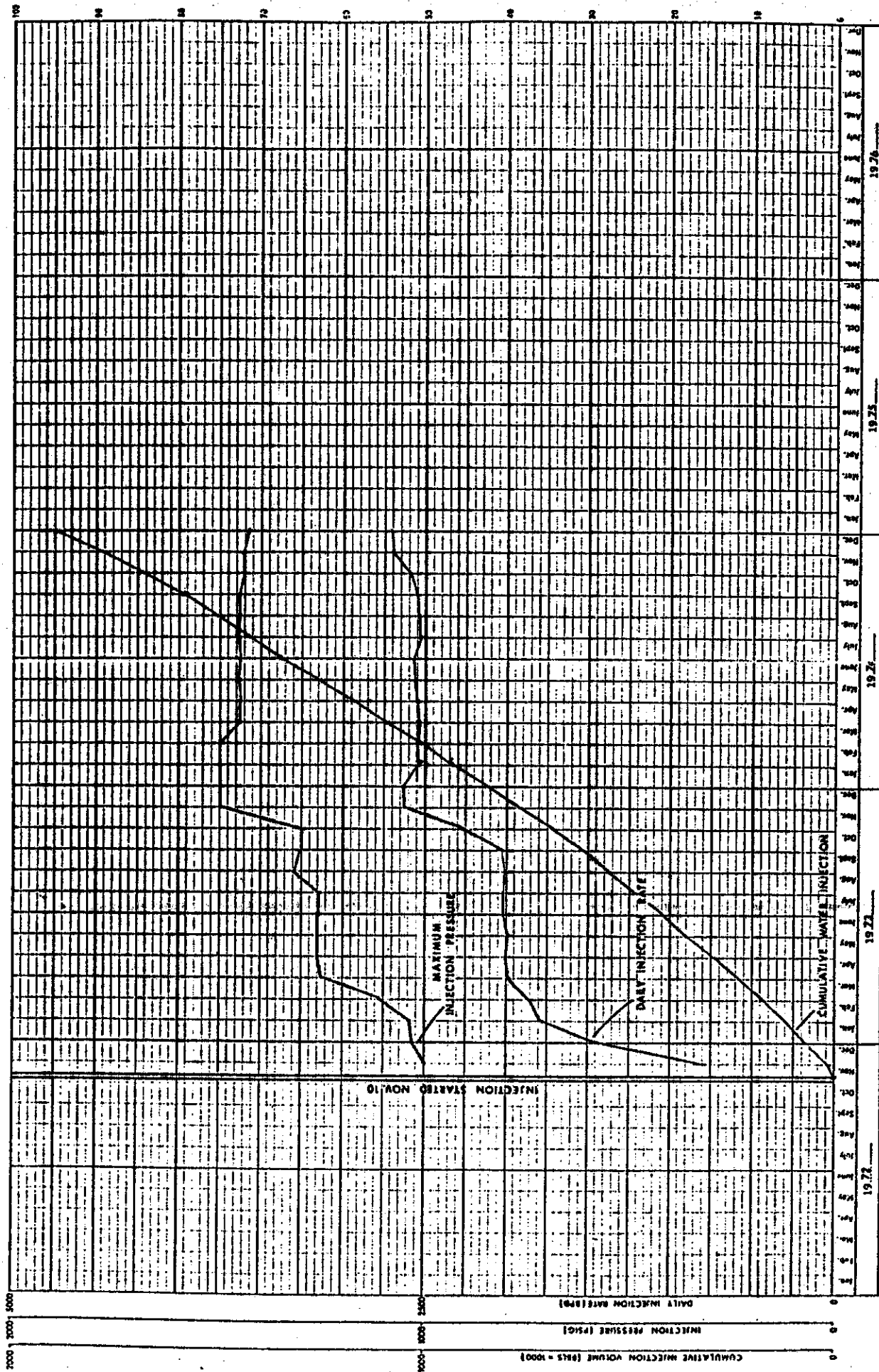


FIGURE 2

# SAMEDAN ROUTLEDGE PROV. 3-11-9-25 WPM.

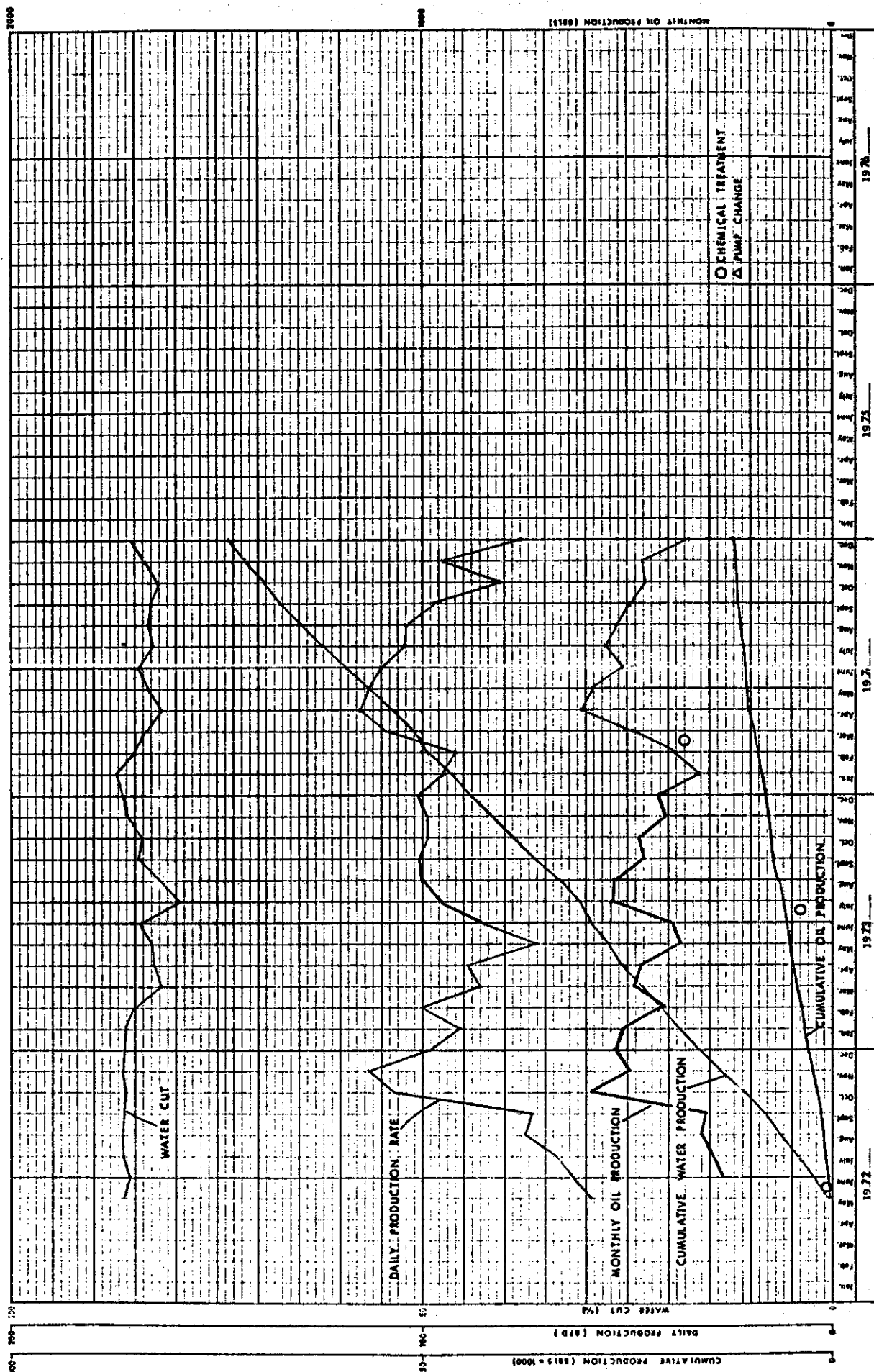


FIGURE 3

# SAMEDAN ROUTLEDGE · PROV. 4-11-9-25 WPM.

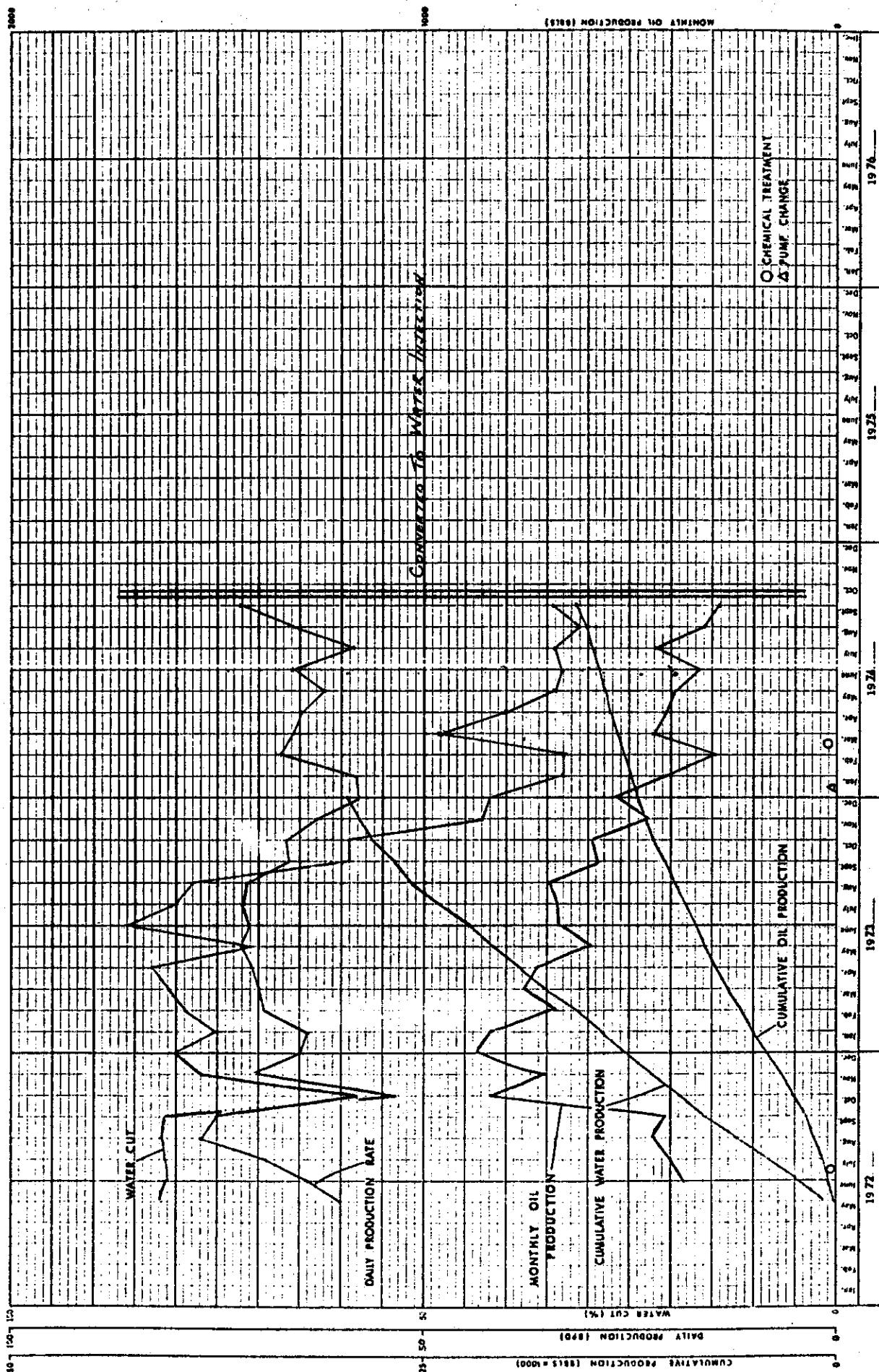


FIGURE 4

# SAMEDAN ROUTLEDGE: PROV. 5-11-9-25 WPM.

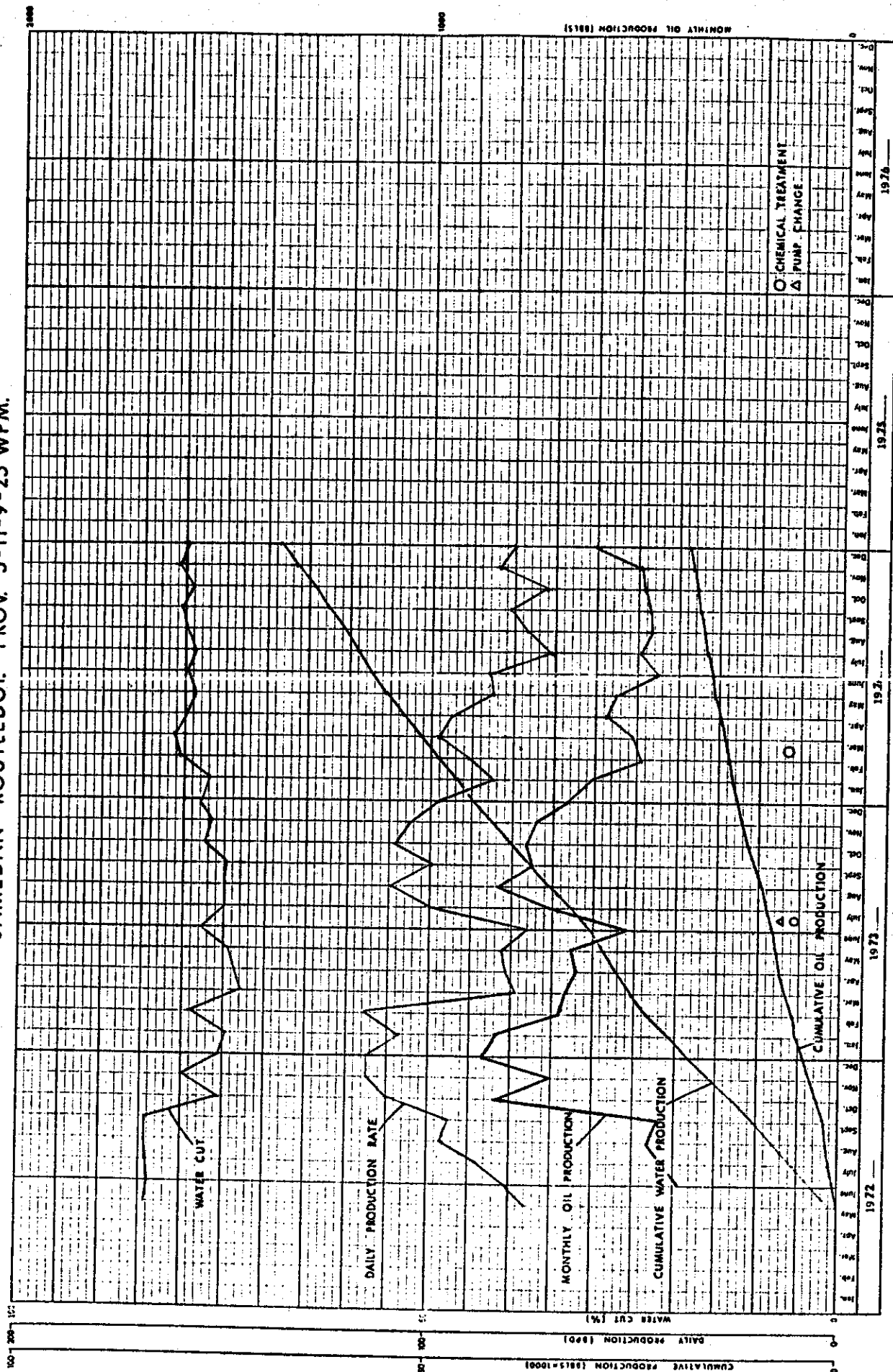


FIGURE 5

# SAMEDAN ROUTLEDGE PROV. 6-11-9-25WPM.

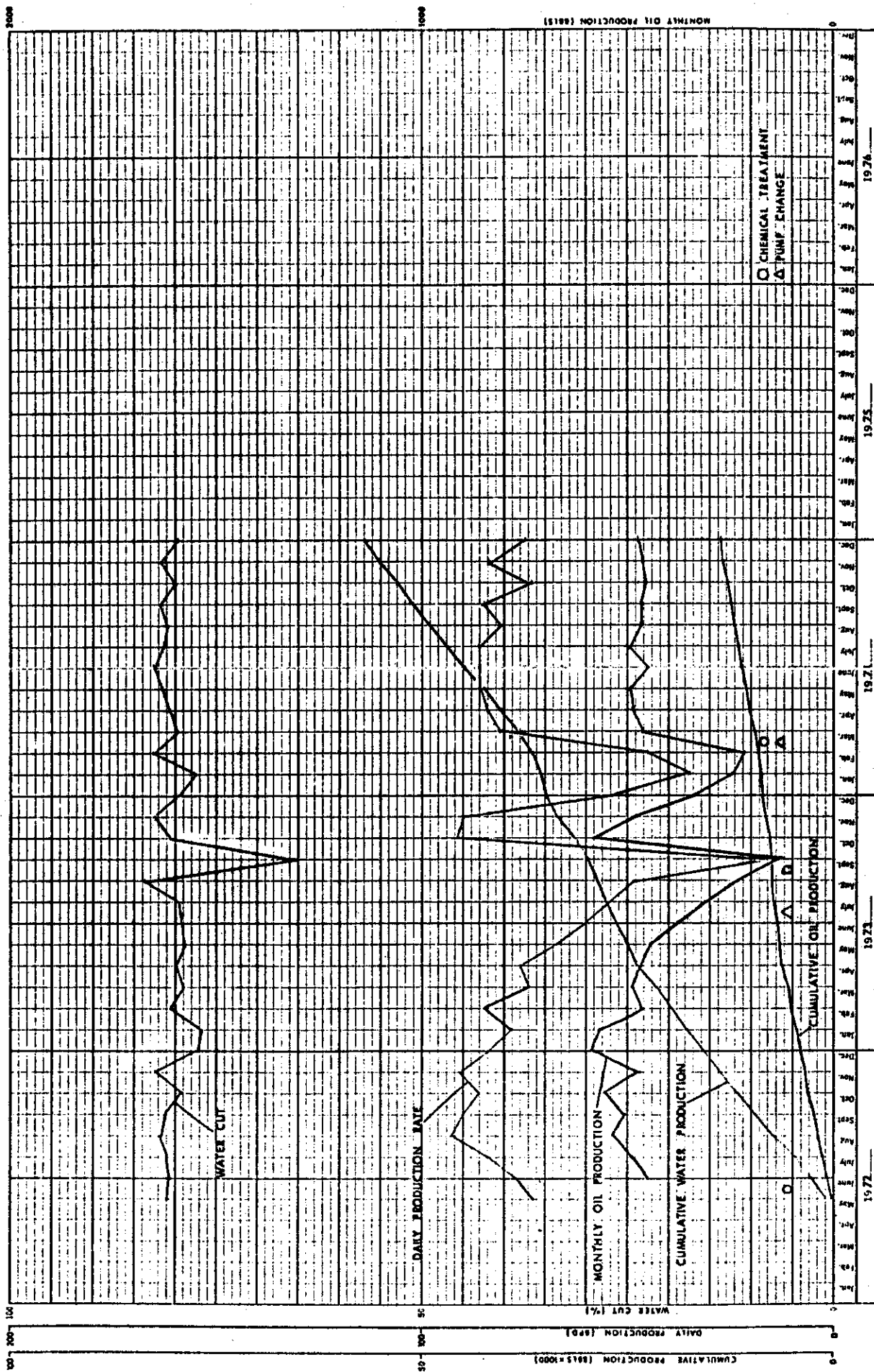


FIGURE 6

# SAMEDAN ROUTLEDGE PROV. 7-11-9-25WPM.

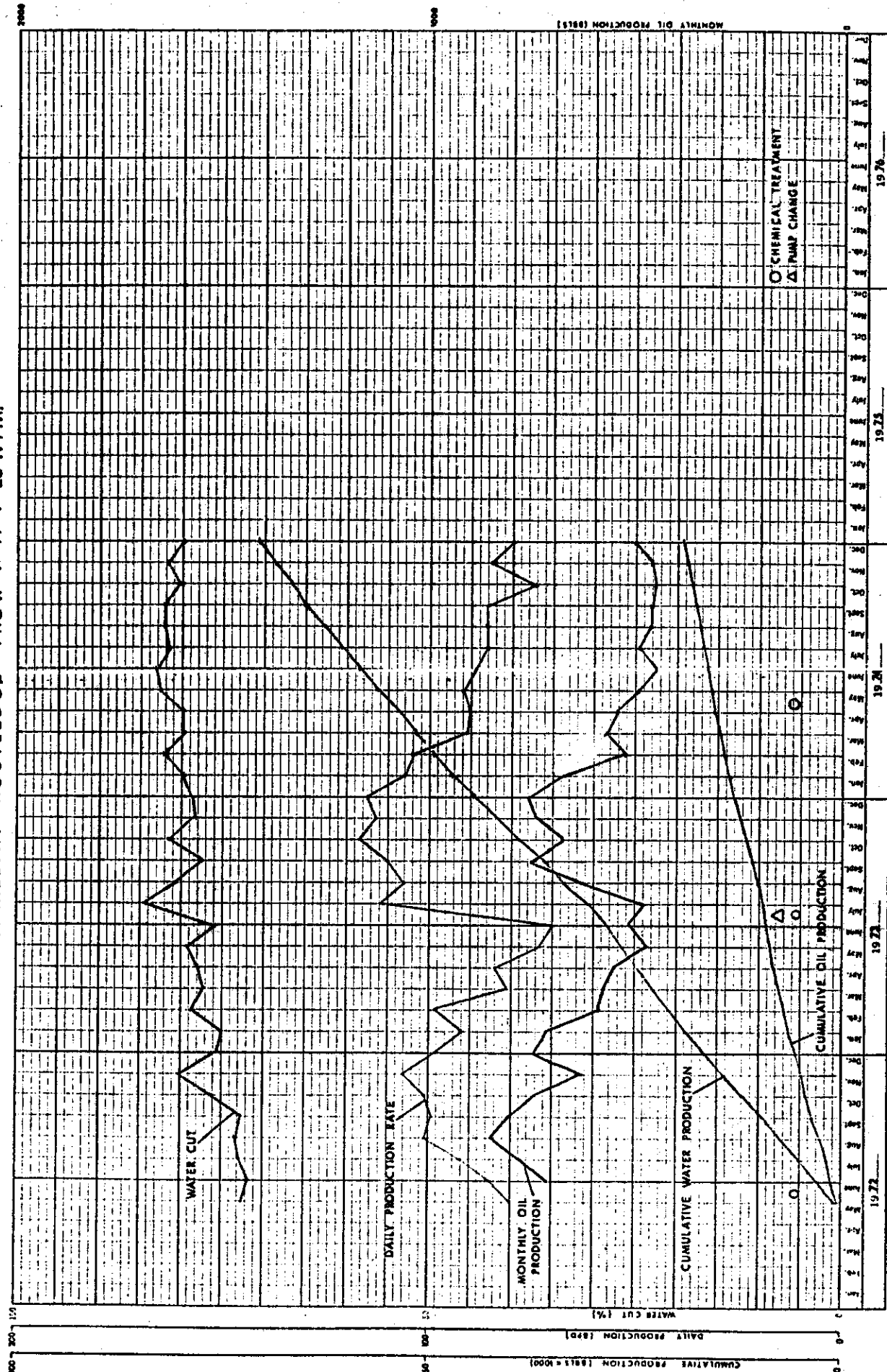


FIGURE 7

# SAMEDAN ROUTLEDGE PROV. 8-11-9-25WPM.

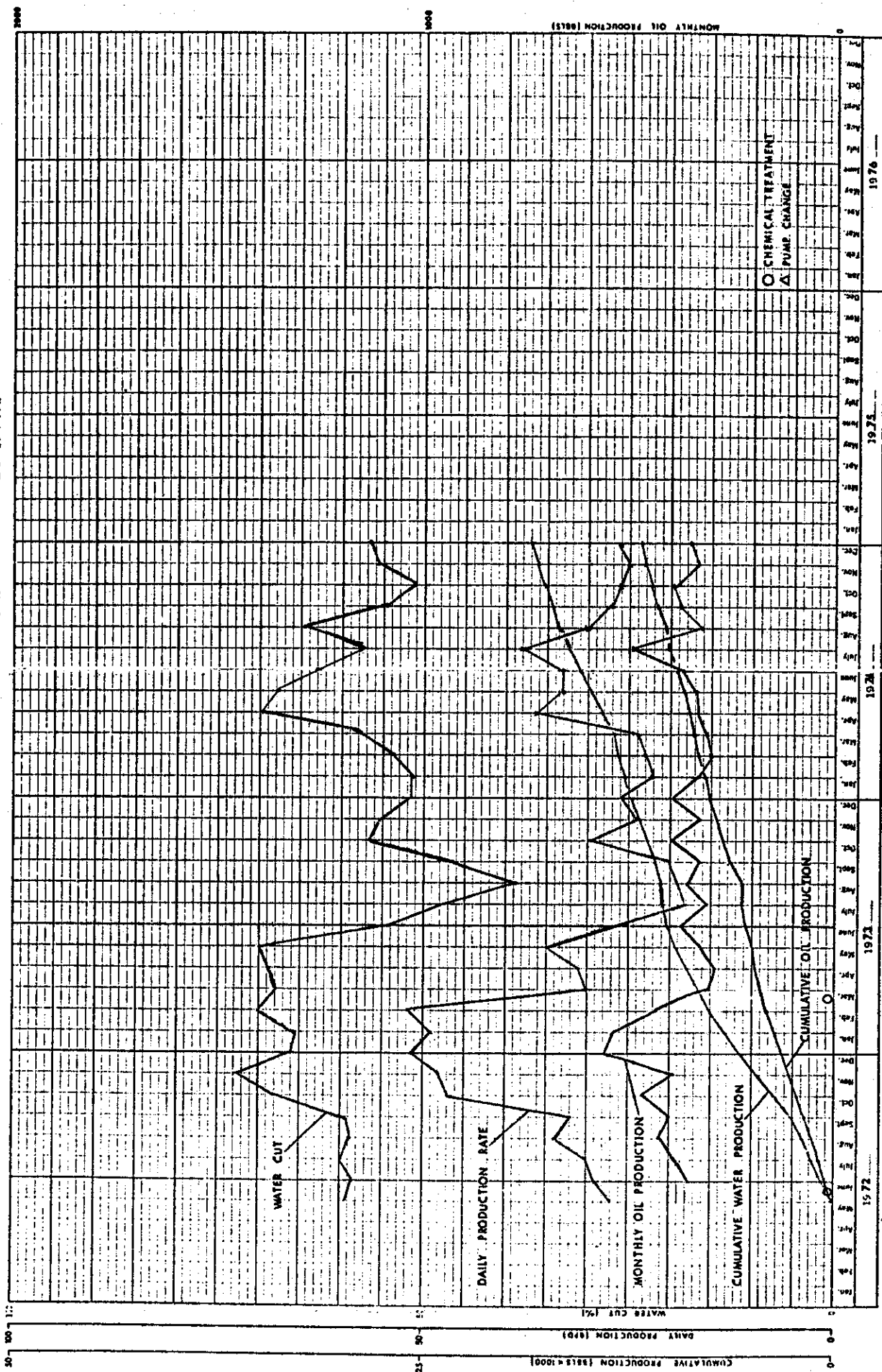


FIGURE 8

# SAMEDAN ROUTLEDGE PROV. 11-11-9-25WPM.

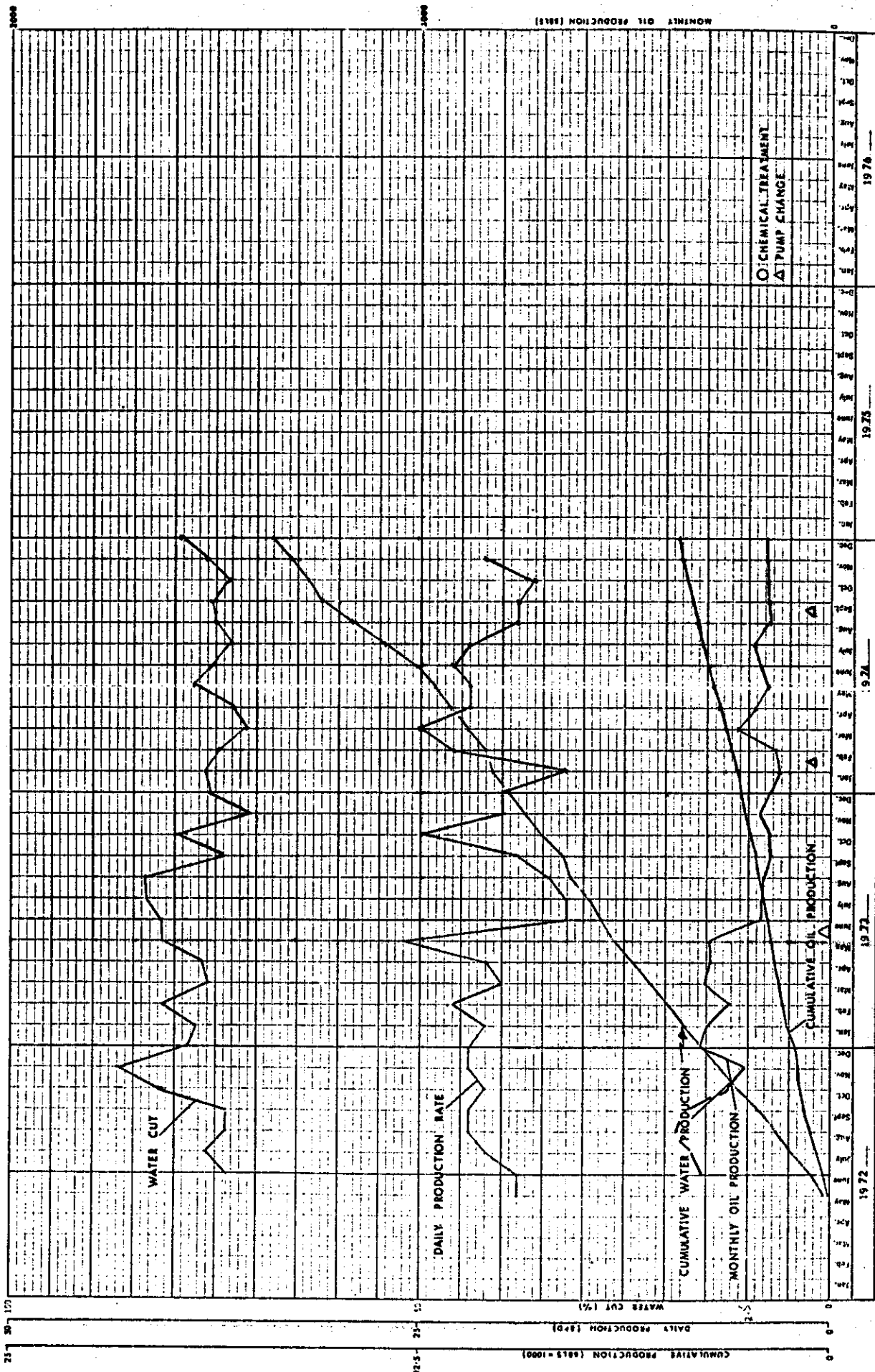


FIGURE 9

# SAMEDAN ROUTLEDGE PROV 13-11-9-25WPM.

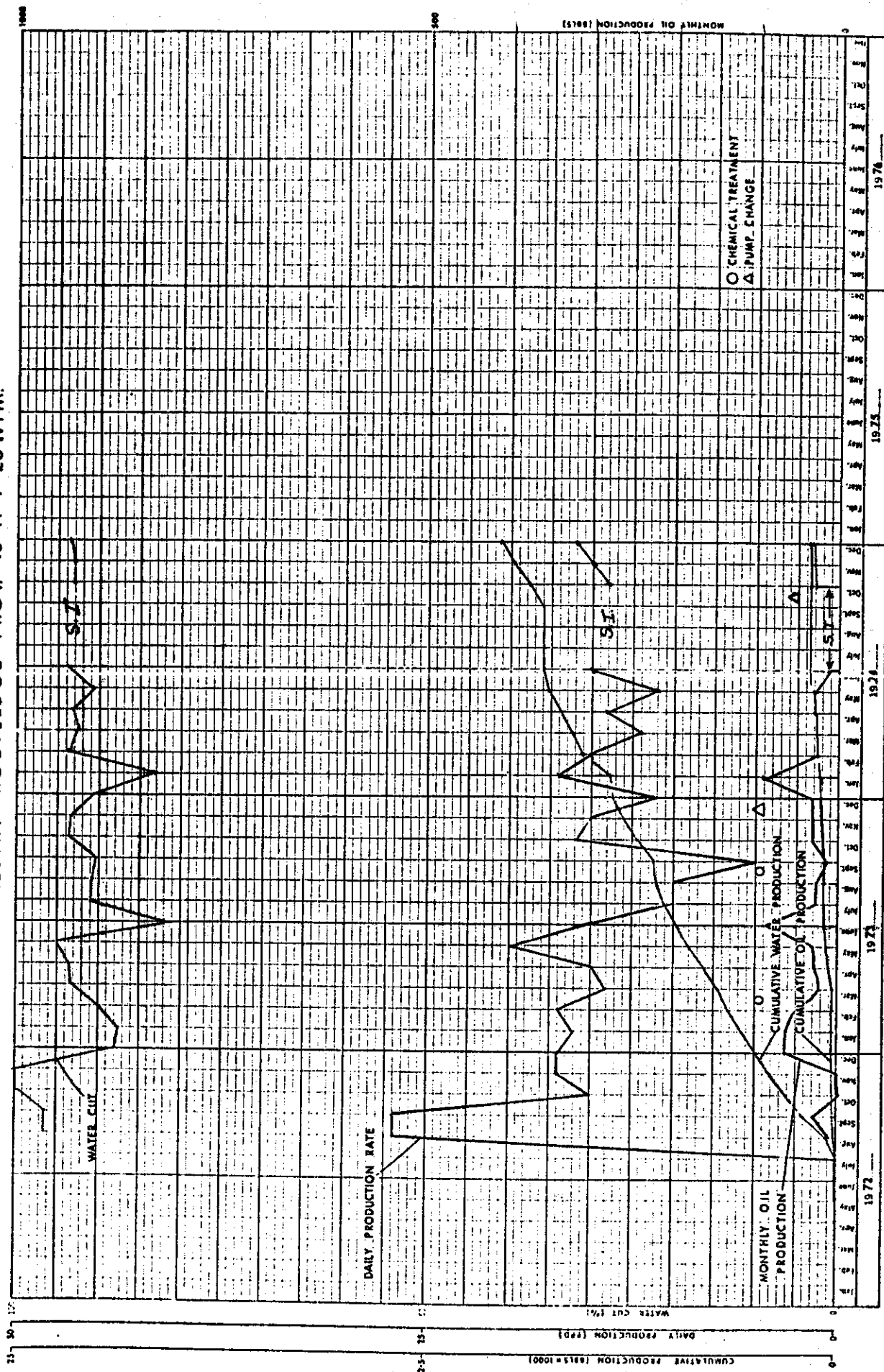


FIGURE 10

# SAMEDAN ROUTLEDGE PROV 15-11-9-25 WPM

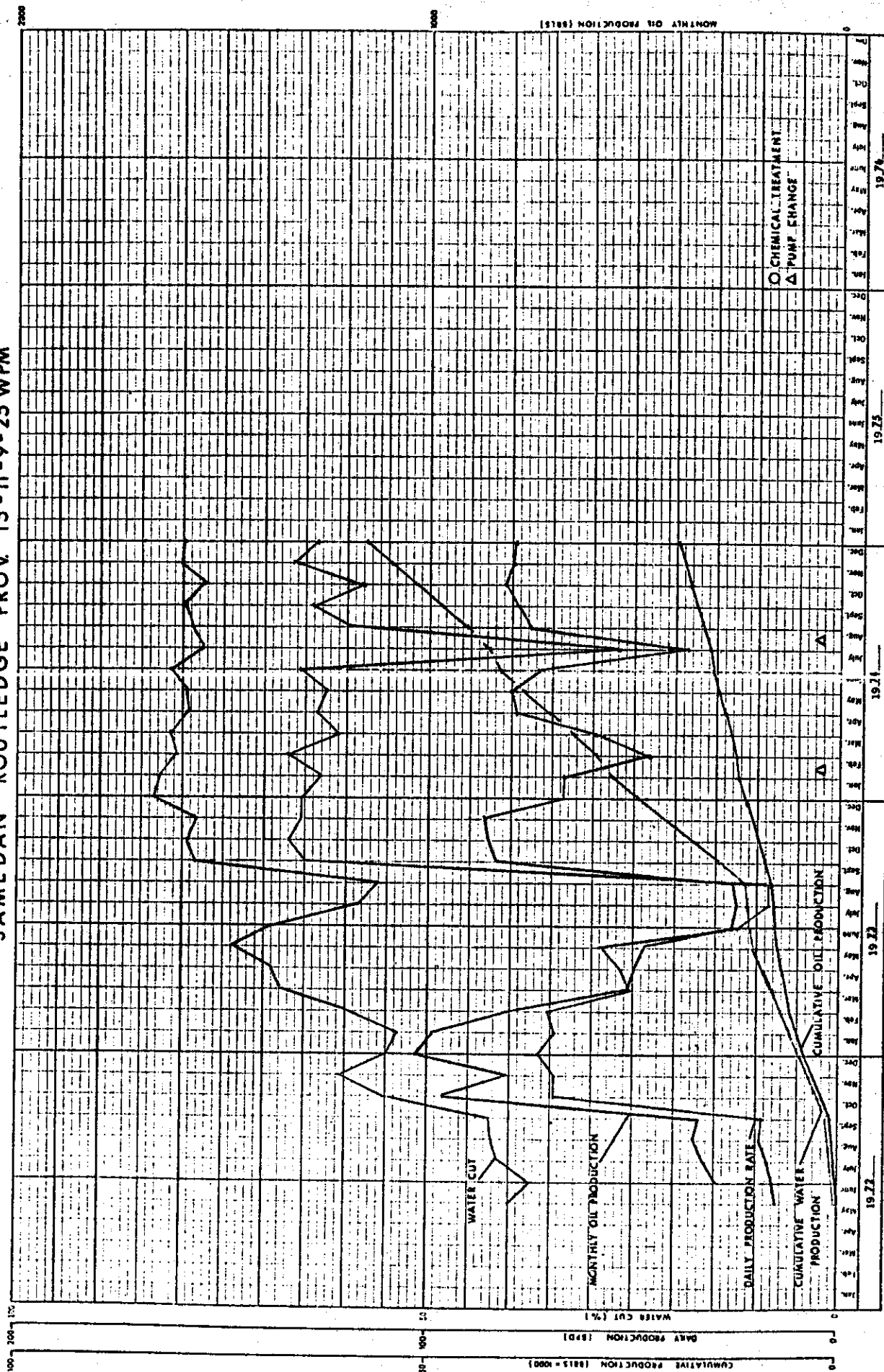


FIGURE 11

# SAMEDAN ROUTLEDGE PROV. 3-14-9-25WPM.

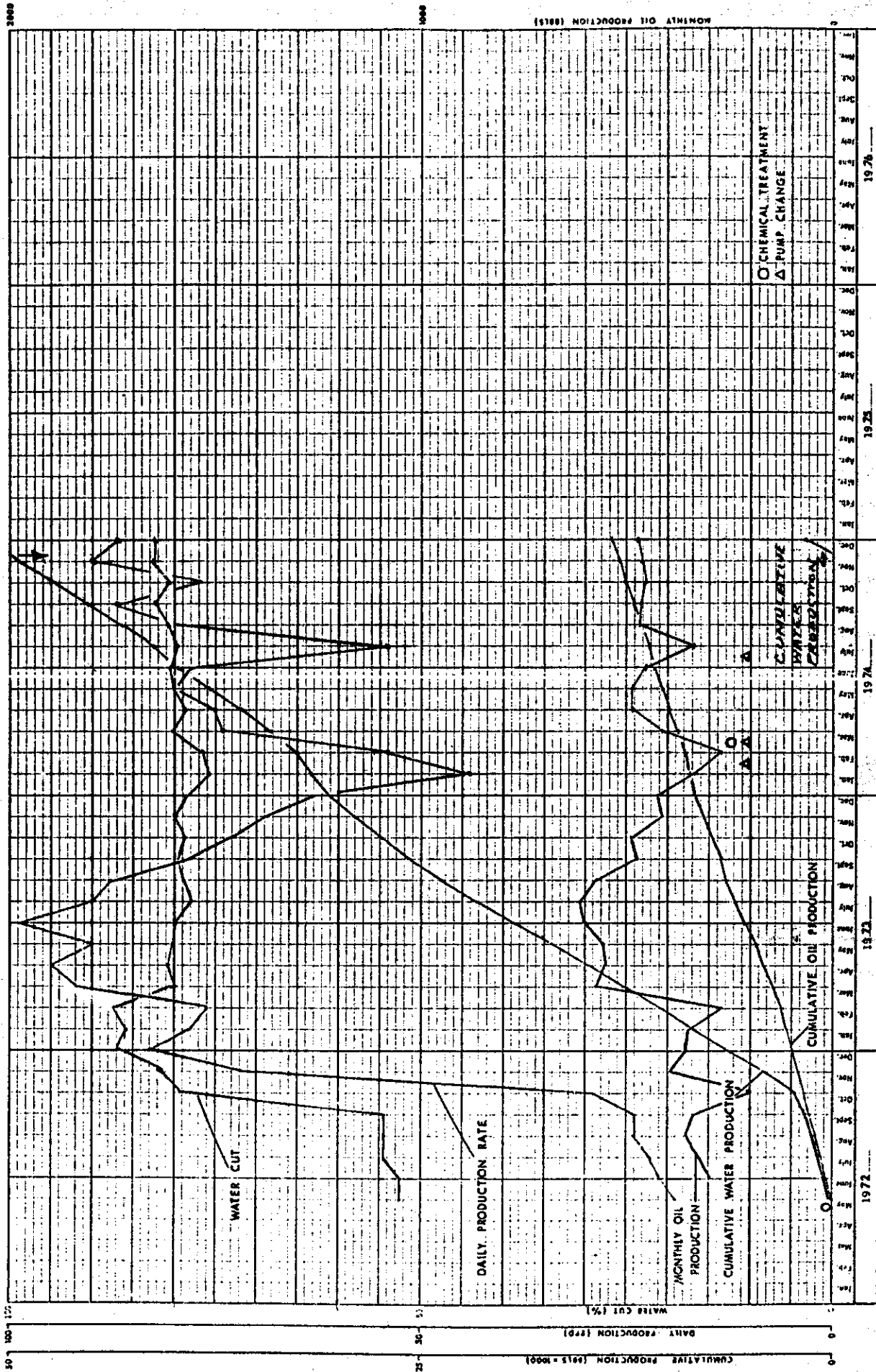


FIGURE 12

# SAMEDAN ROUTLEDGE 5-12-9-25WPM.

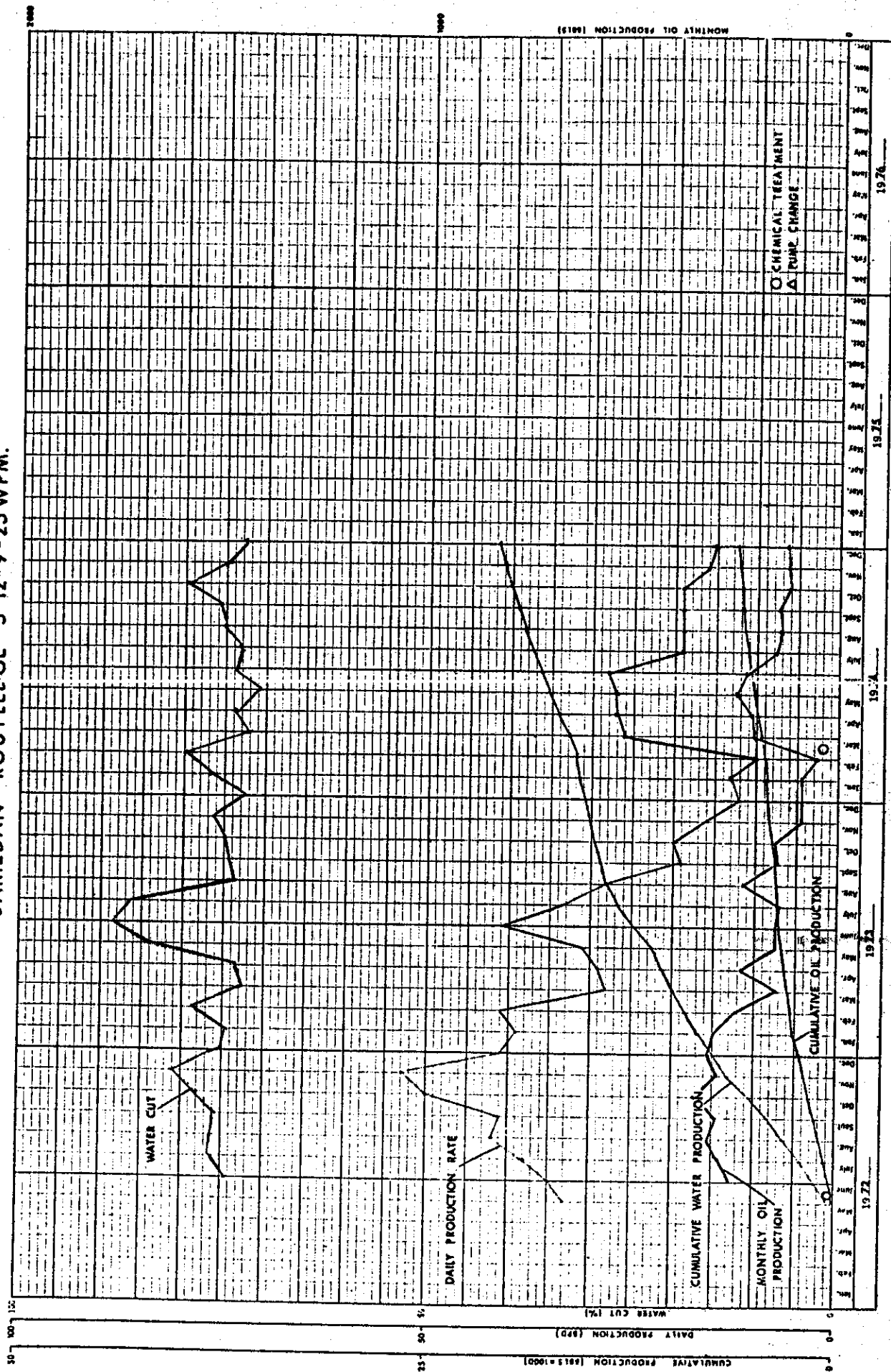


FIGURE 13

# SAMEDAN ROUTLEDGE 5-13-9-25WPM.

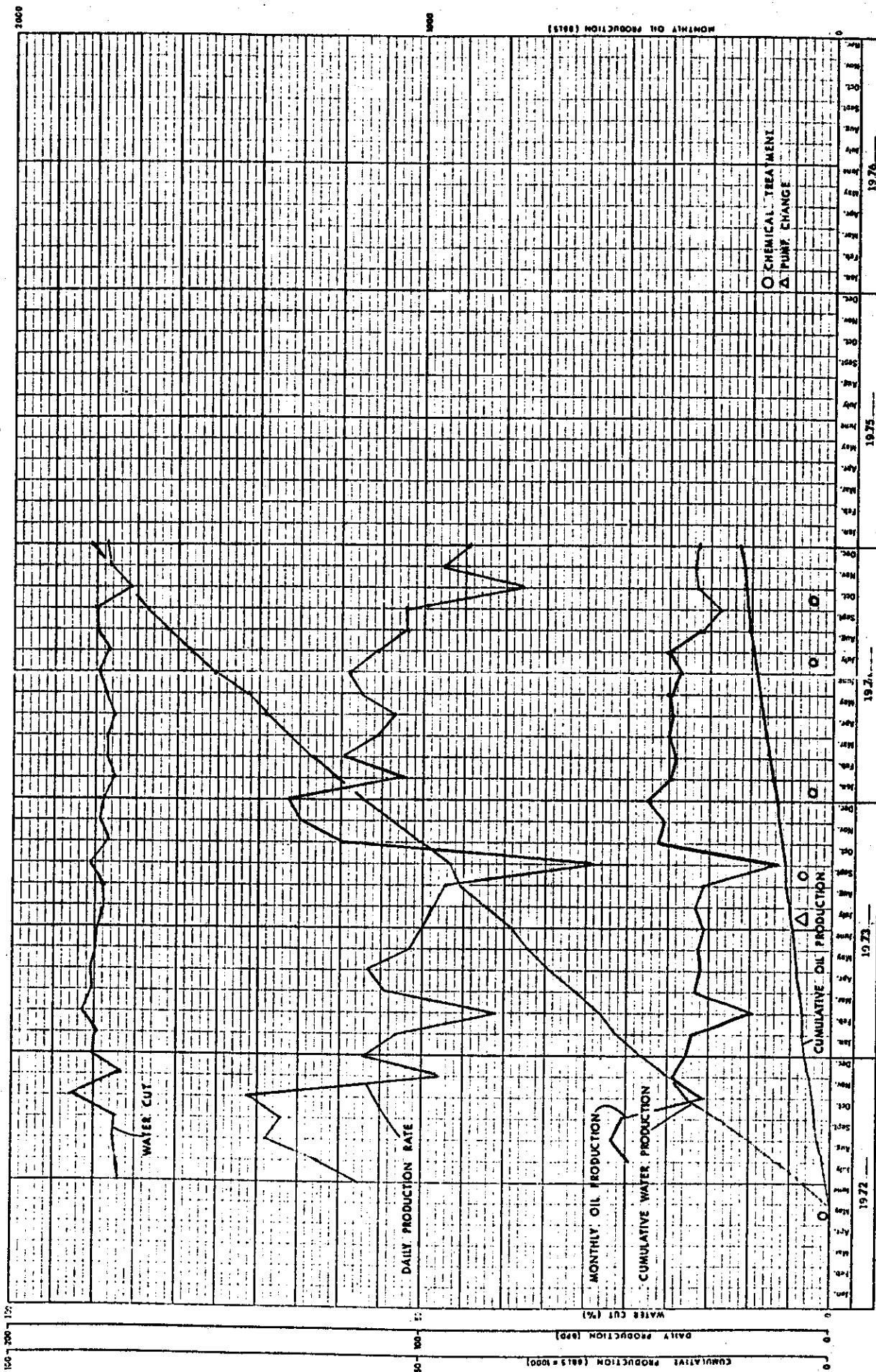


FIGURE 14

# SAMEDAN ROUTLEDGE 1-10-9-25WPM.

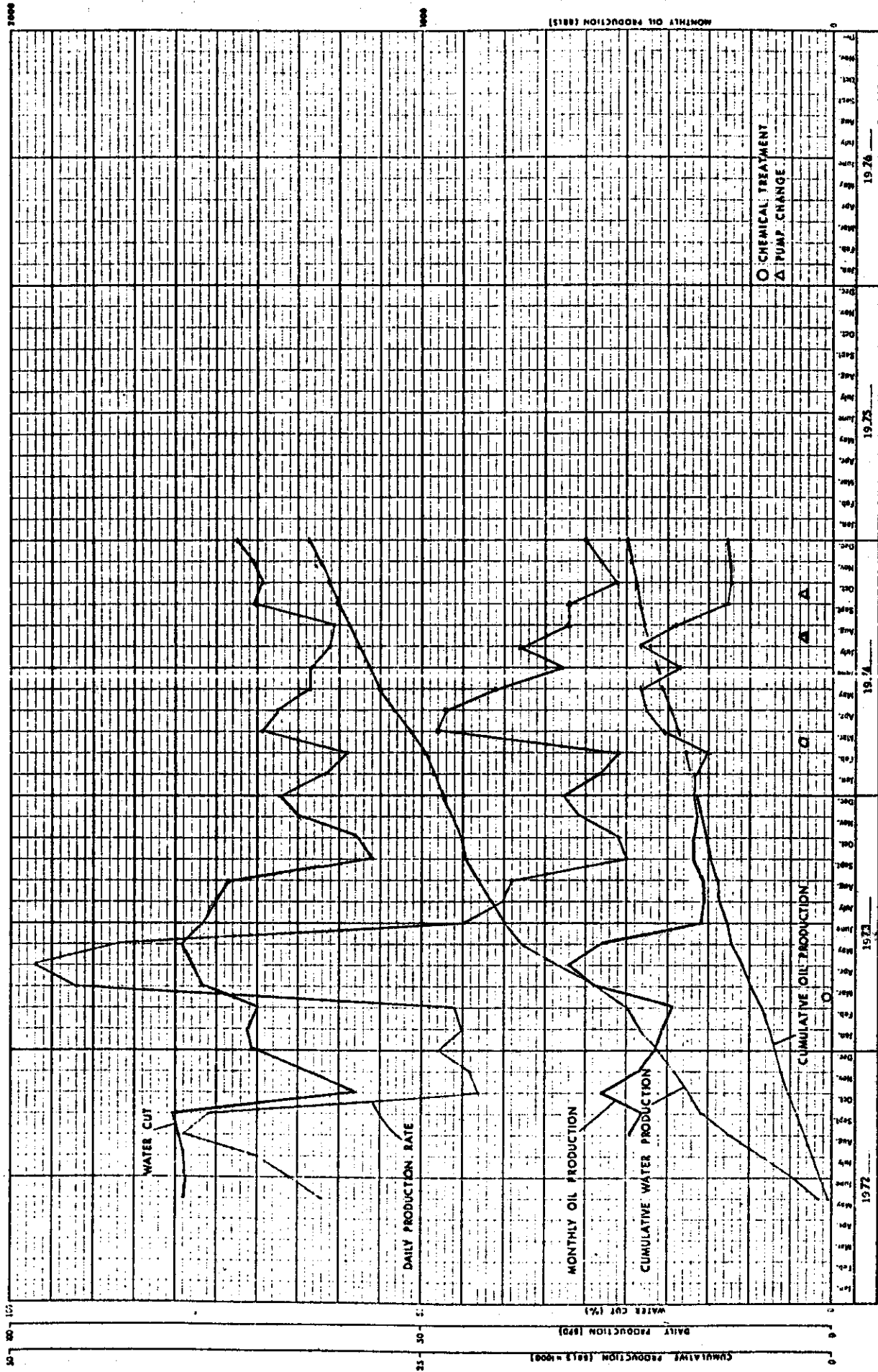


FIGURE 15

# SAMEDAN ROUTLEDGE 8-10-9-25WPM.

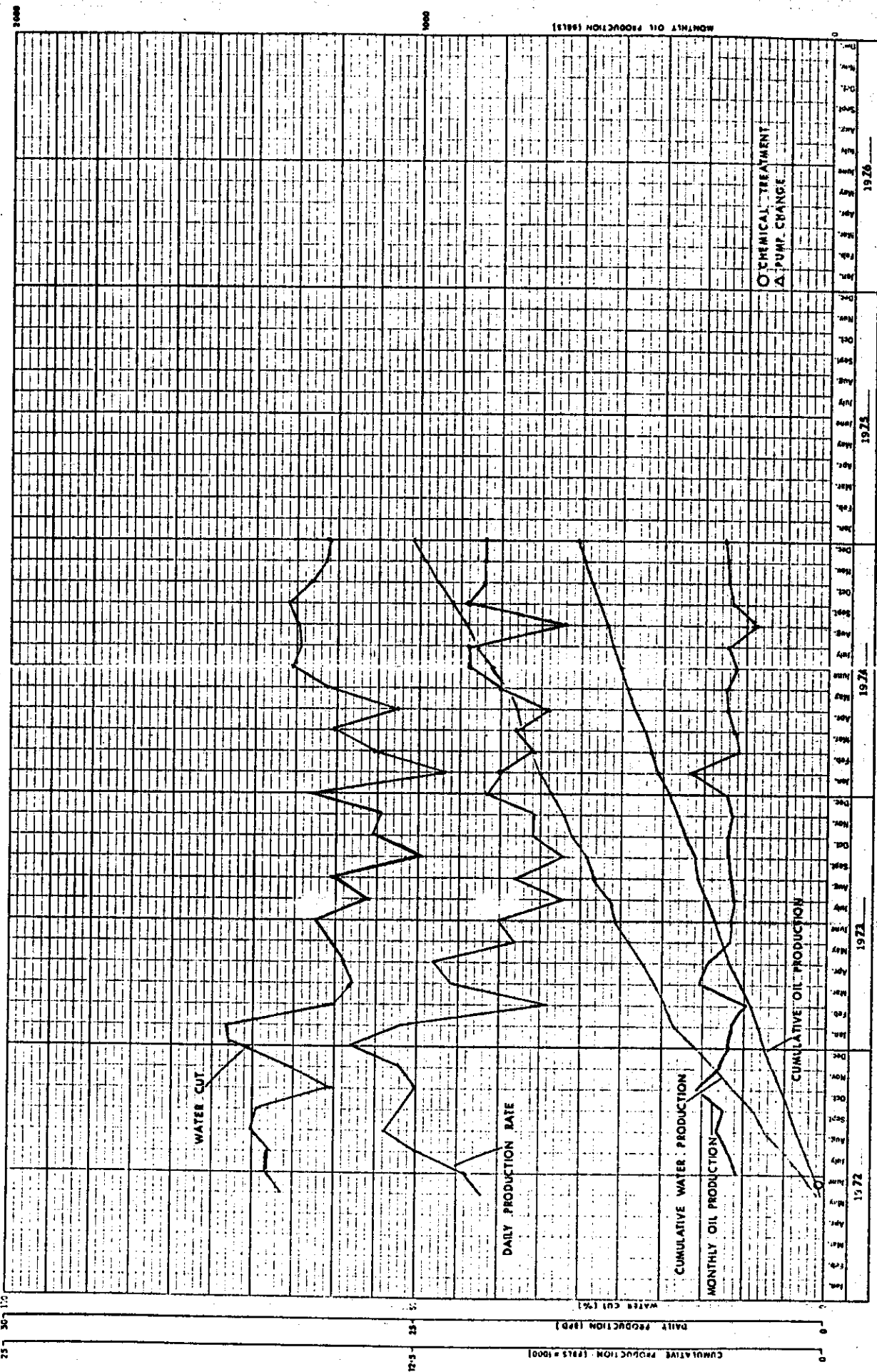


FIGURE 16

# SAMEDAN ROUTLEDGE 9-10-9-25WPM.

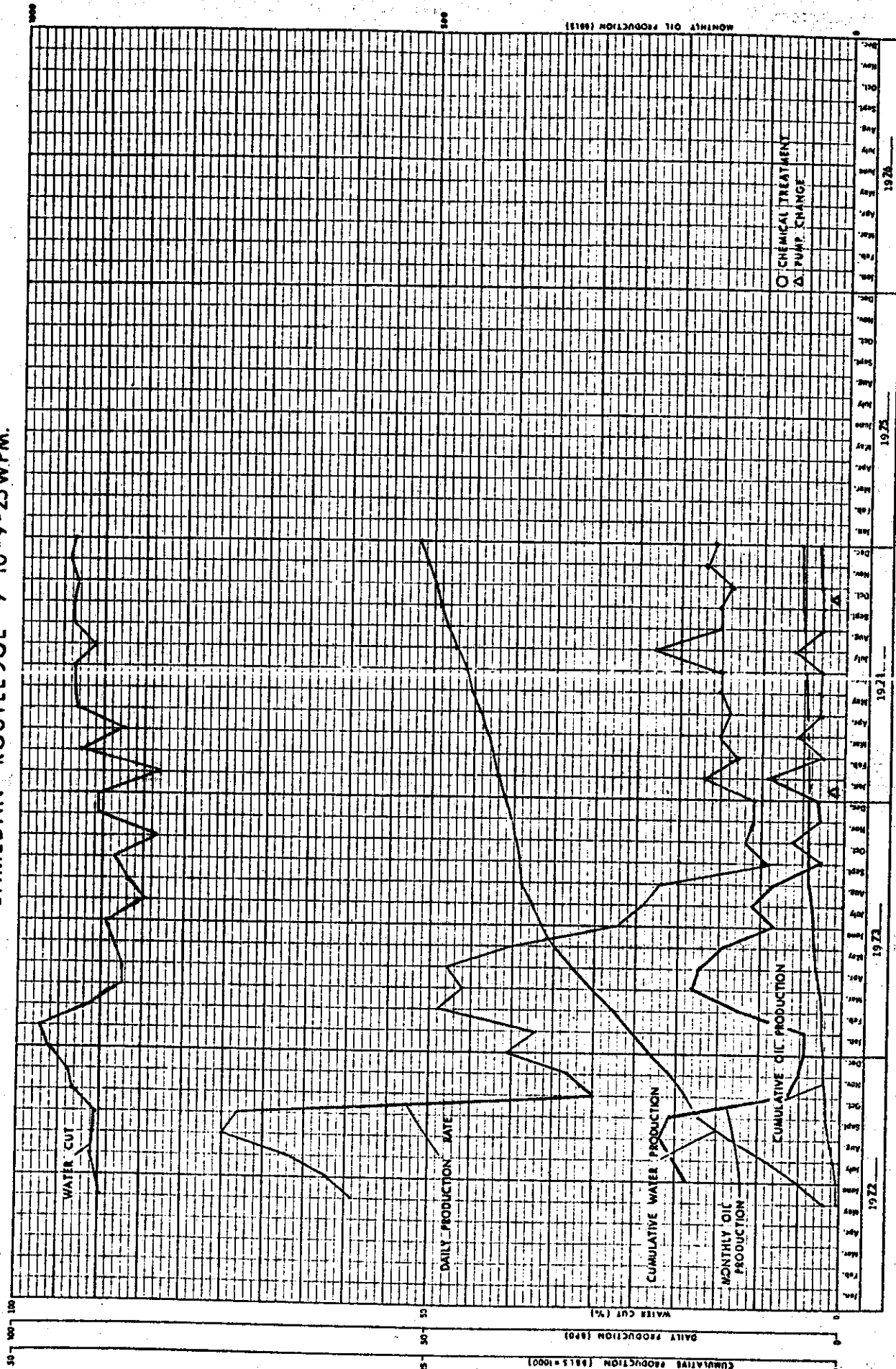


FIGURE 17

# SAMEDAN ROUTLEDGE 1-14-9-25WPM.

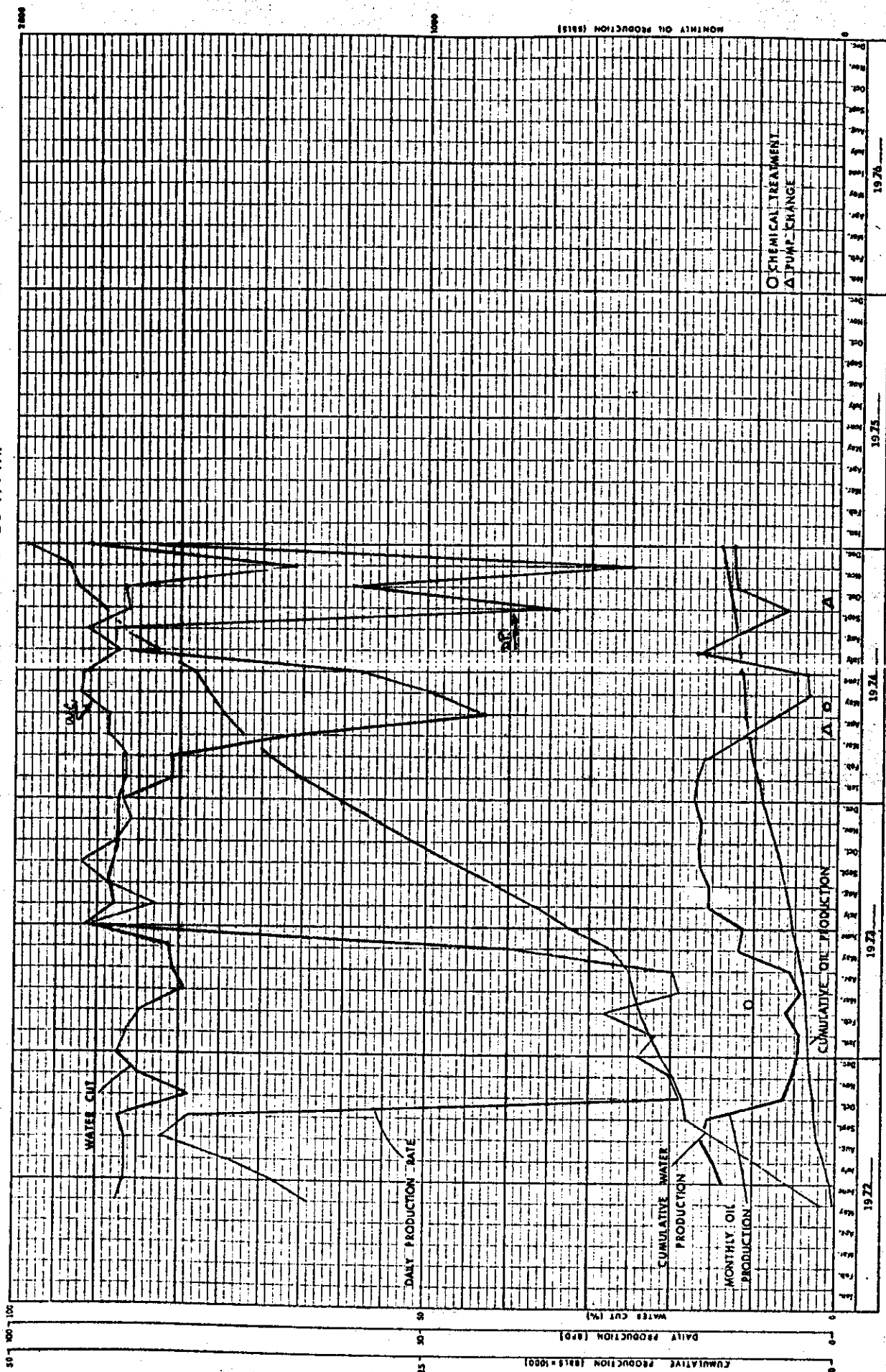


FIGURE 18

# SAMEDAN ROUTLEDGE 2-14-9-25 WPM.

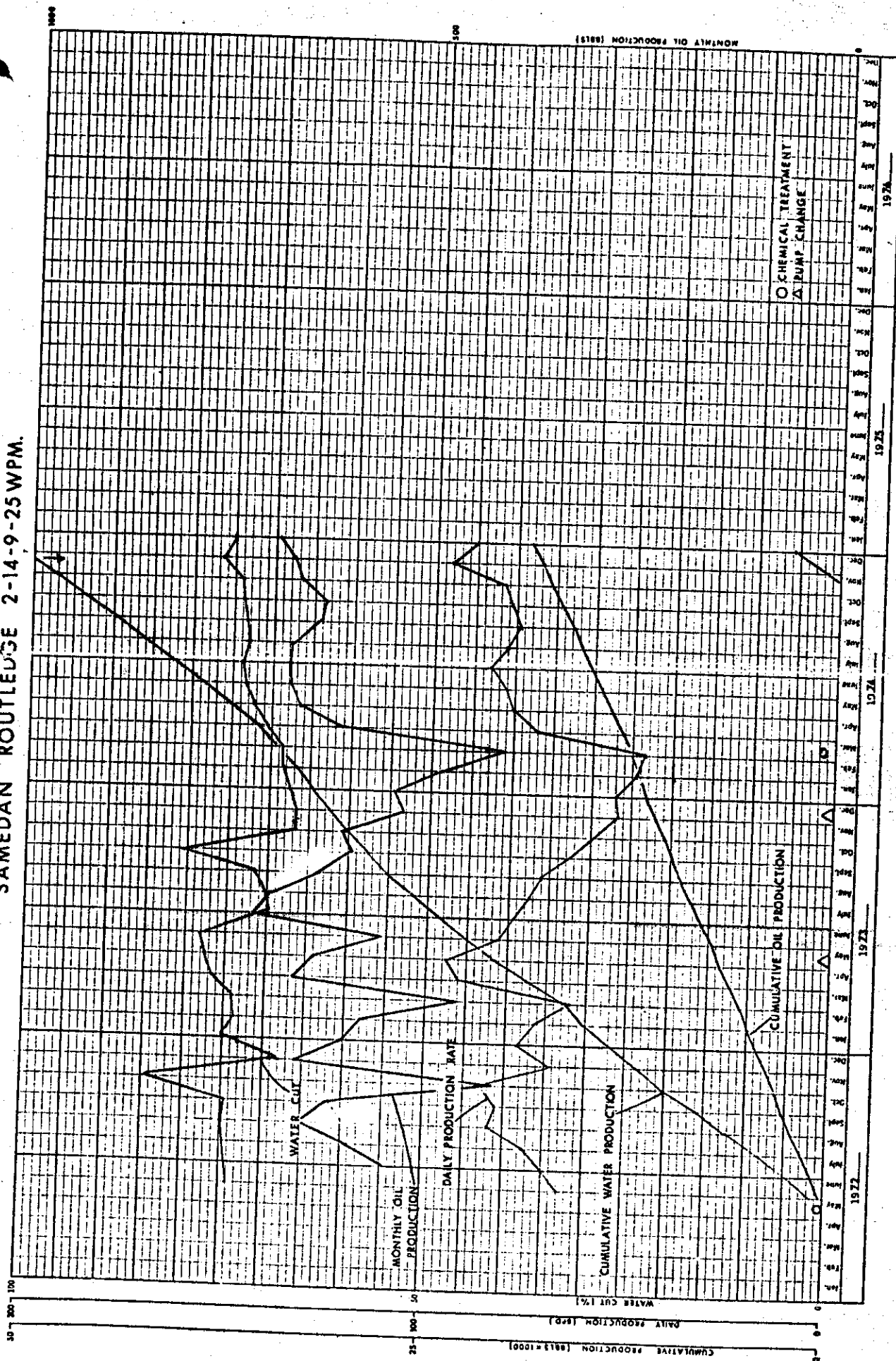


FIGURE 19

# SAMEDAN ROUTLEUGE 7-14-9-25WPM.

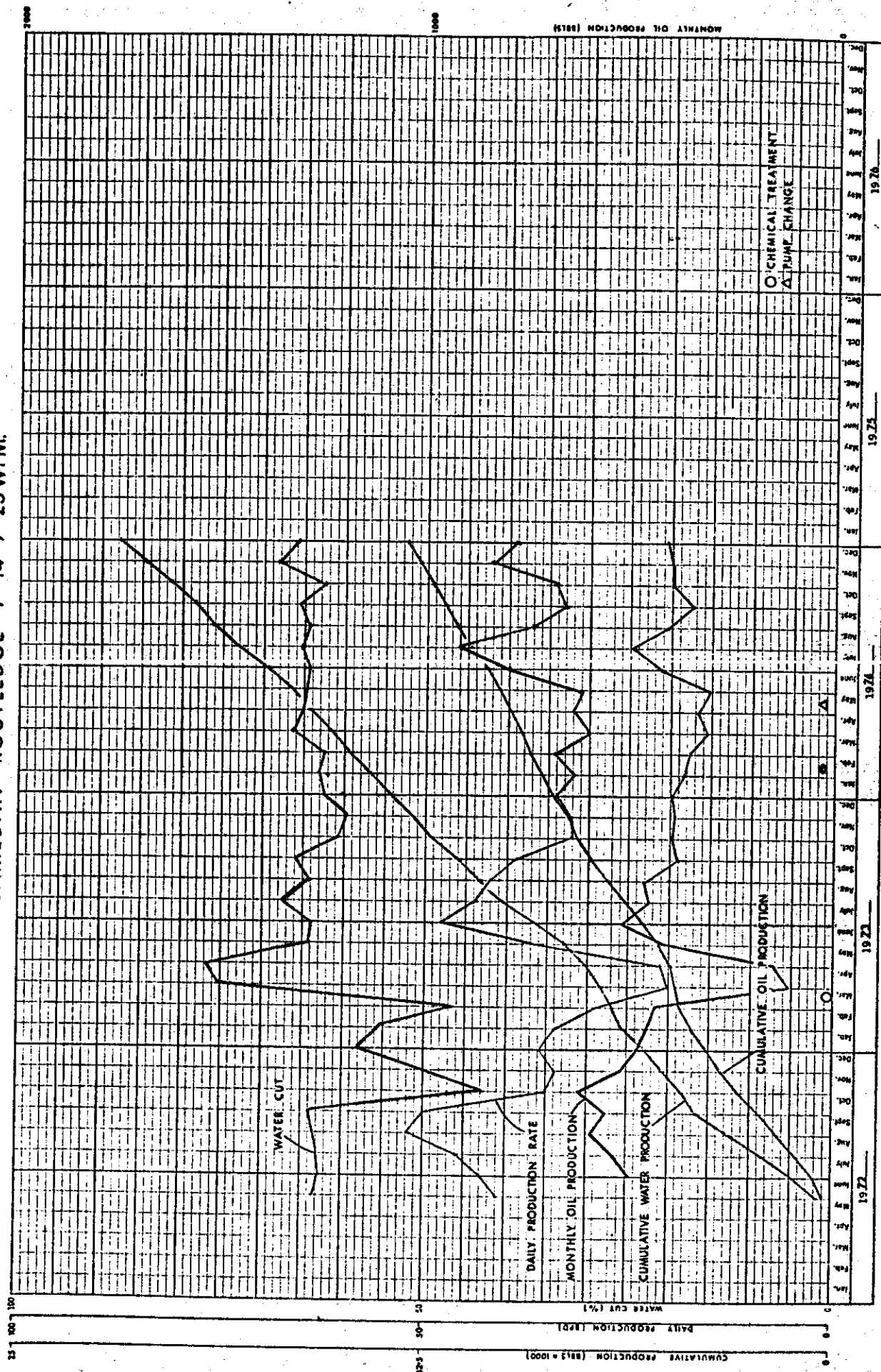


FIGURE 20

# SAMEDAN ROUTLEDGE 8-14-9-25WPM.

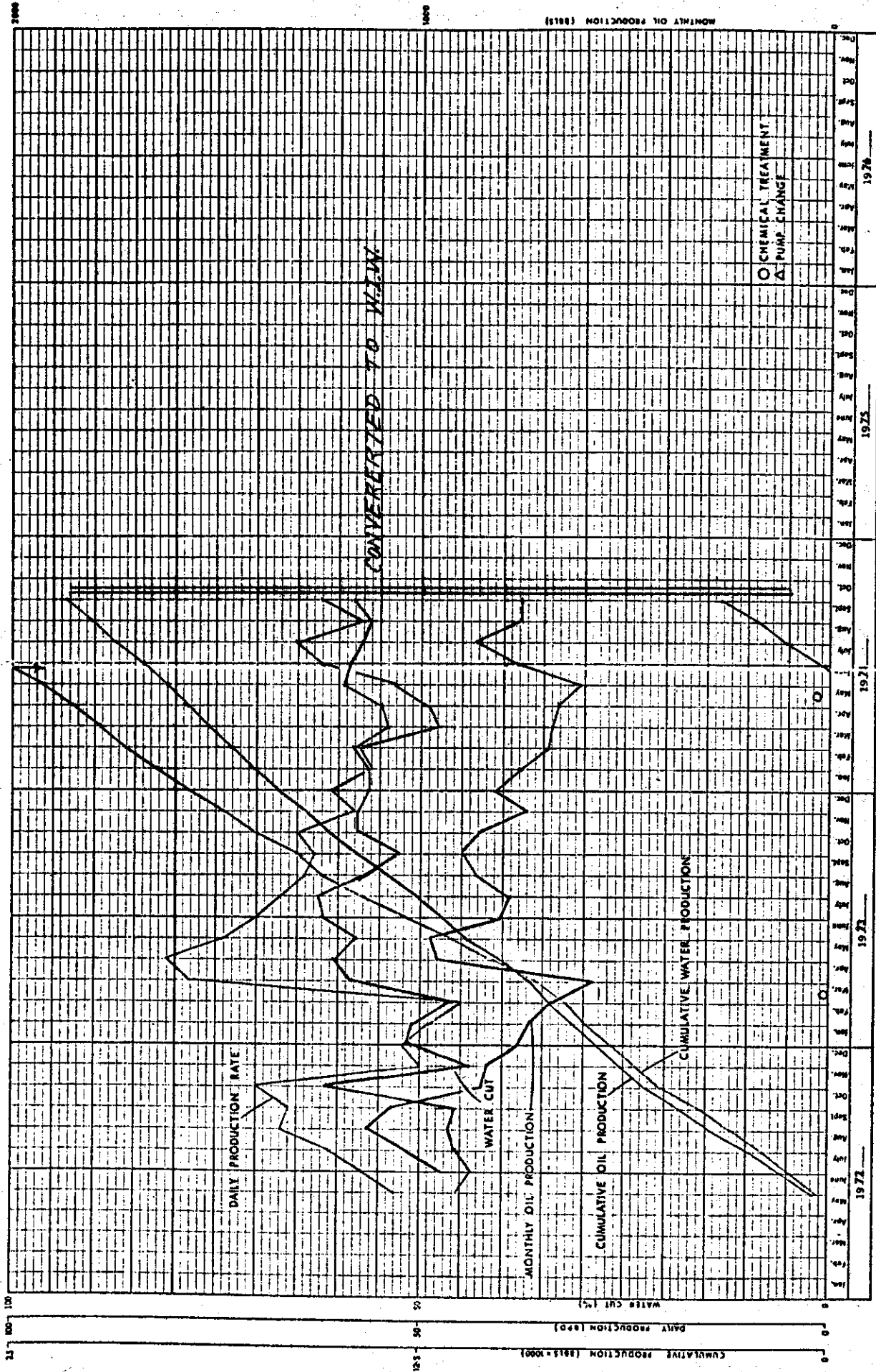


FIGURE 21

# SAMEDAN ROUTLEDGE 9-14-9-25WPM.

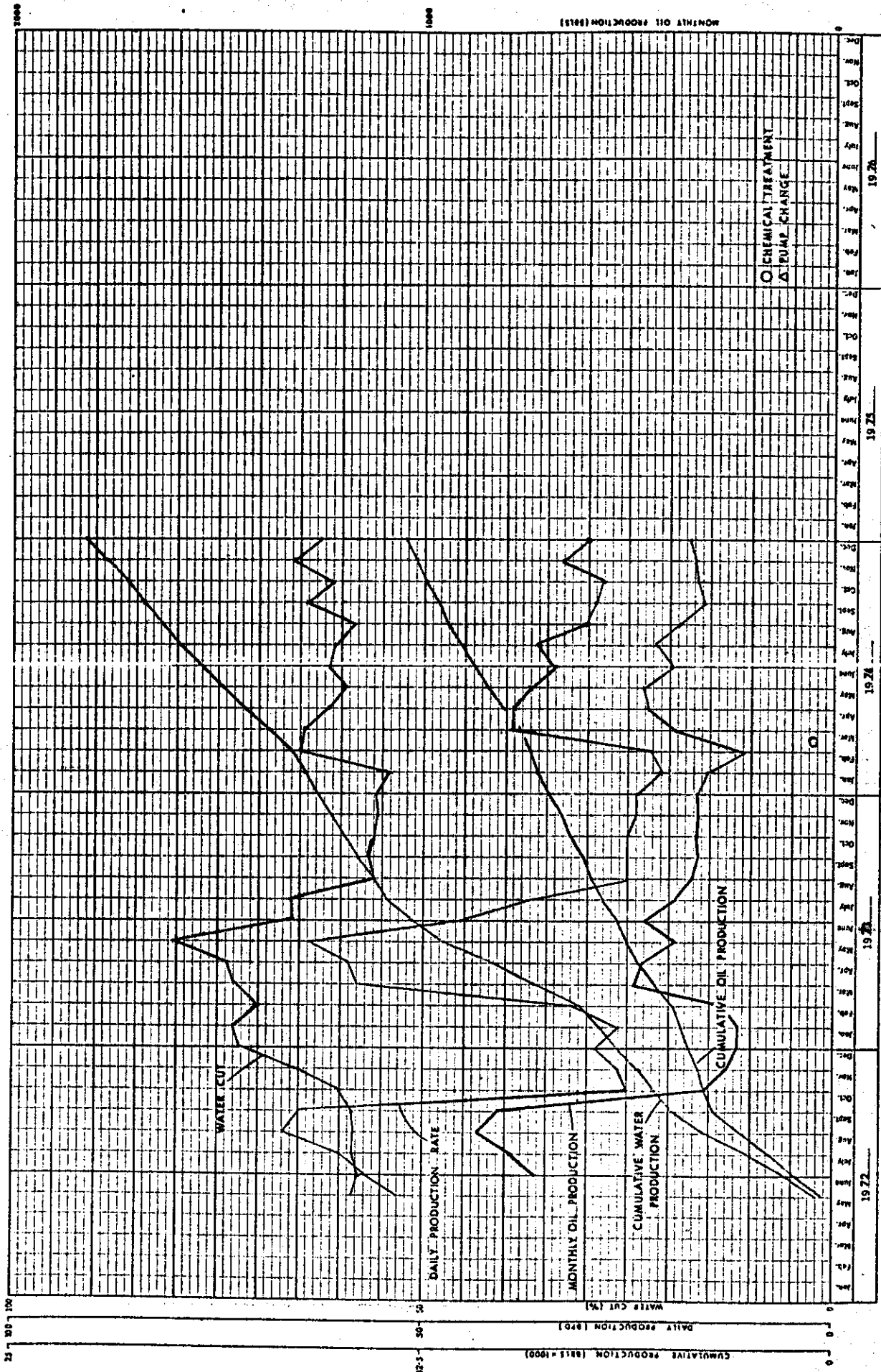


FIGURE 22

# SAMEDAN ROUTLEDGE 10-14-9-25WPM.

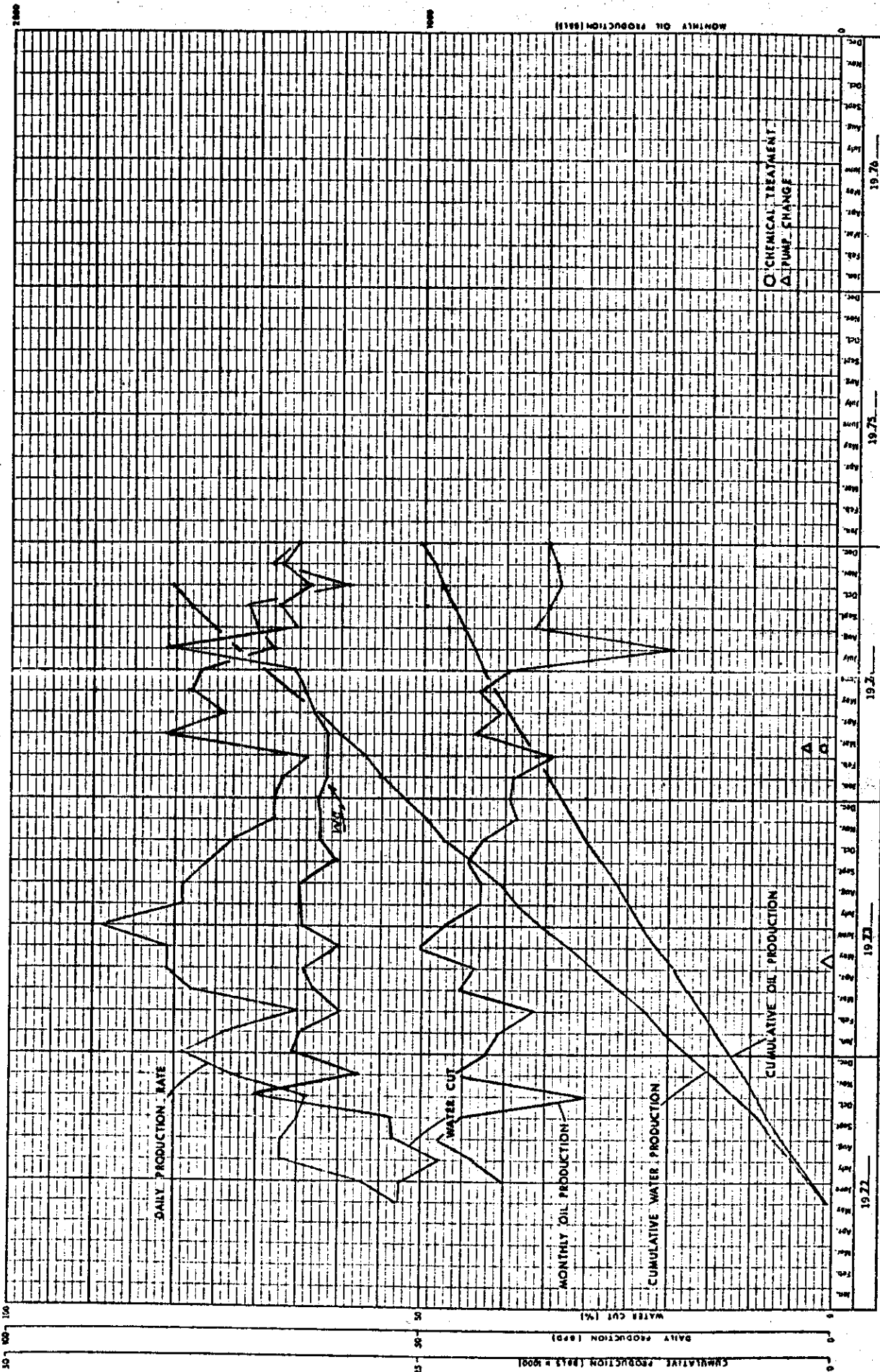


FIGURE 23

# SAMEDAN ROUTLEDGE 11-14-9-25WPM.

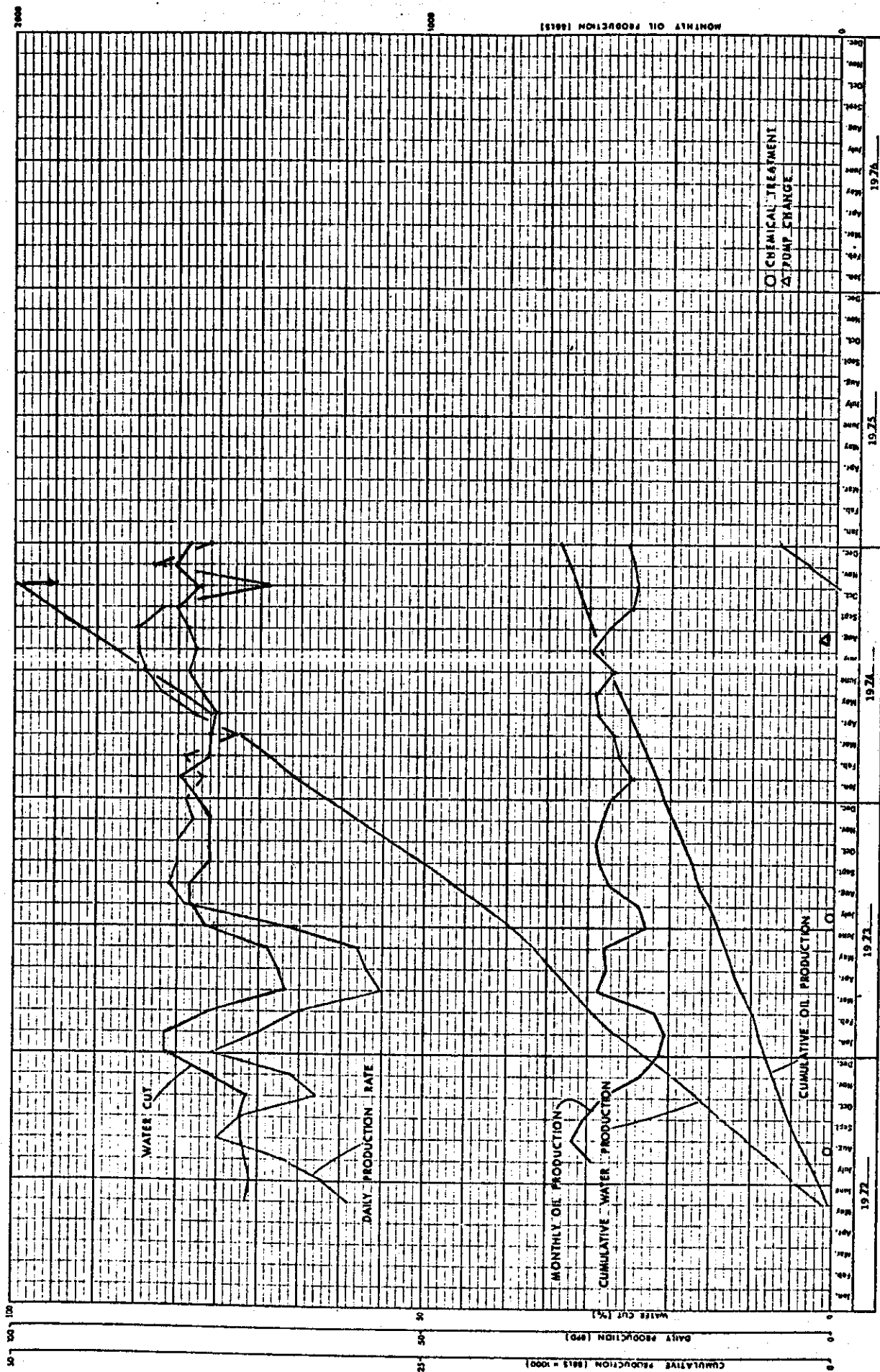
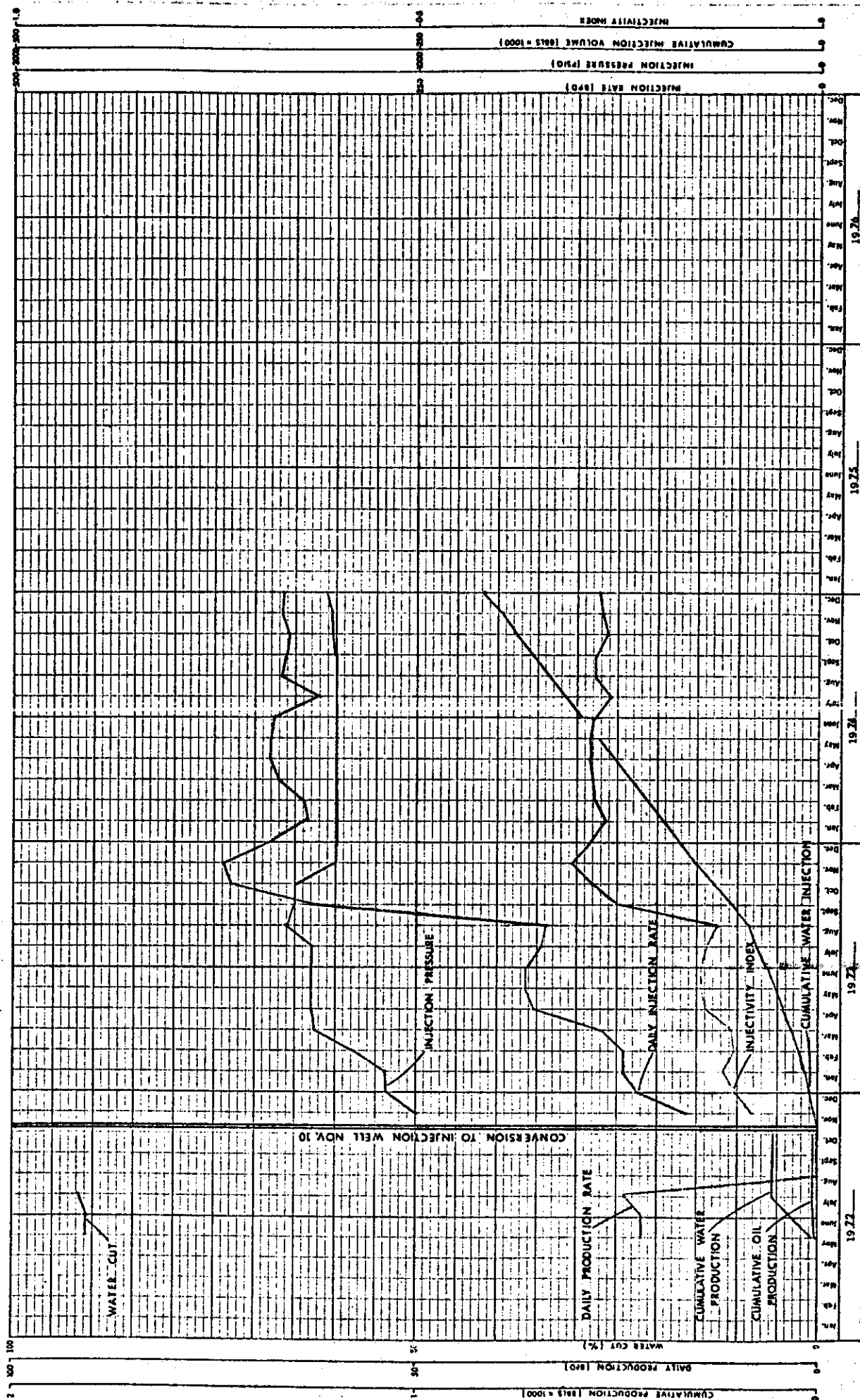


FIGURE 24

# SAMEDAN ROUTLEDGE PROV. 2-11-9-25 WPM.

FIGURE 25



# SAMEDAN ROUTLEDGE PROV. 10-11-9-25WPM.

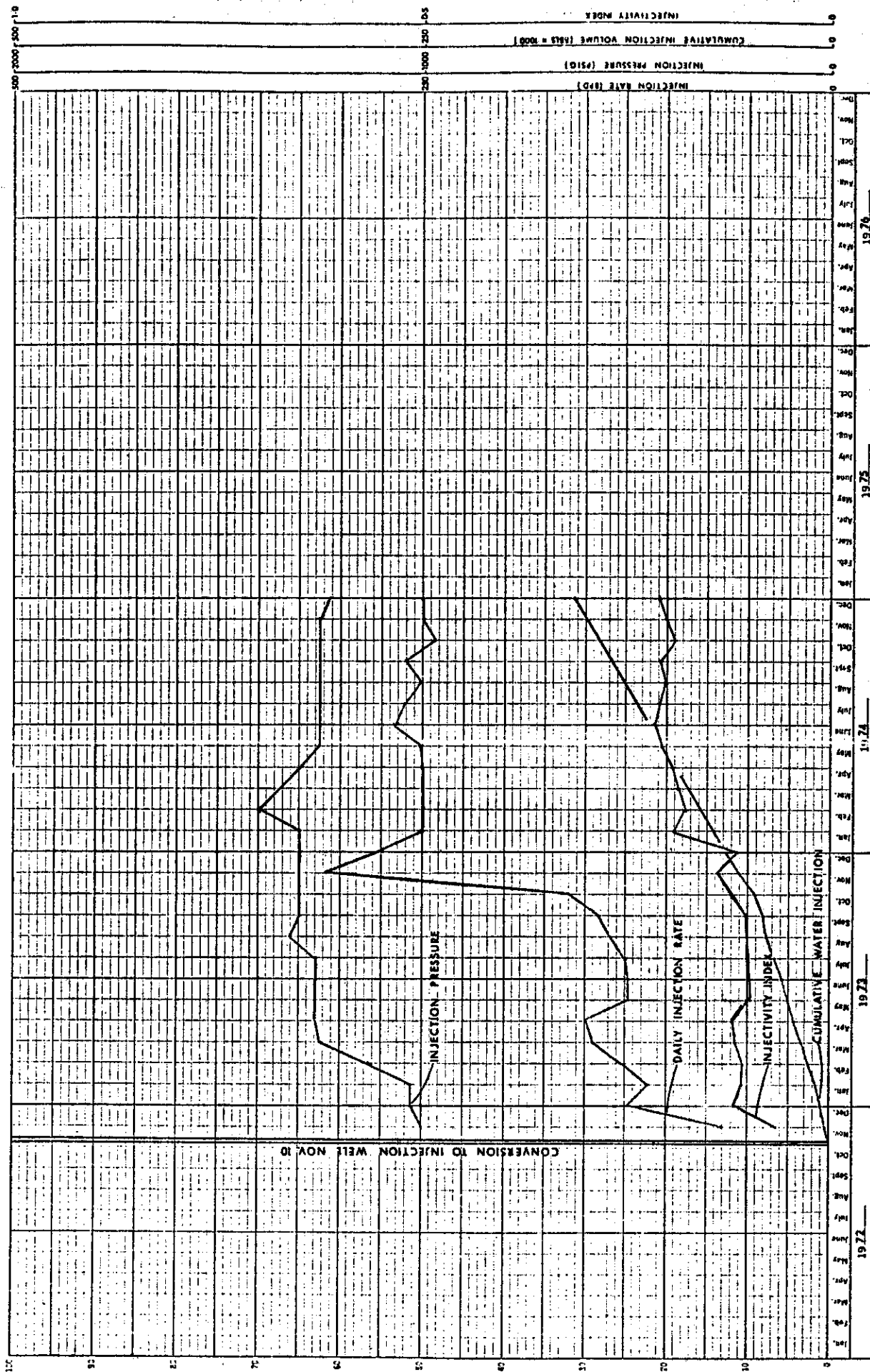


FIGURE 26

# SAMEDAN ROUTLEDGE PROV. 12-11-9-25WPM.

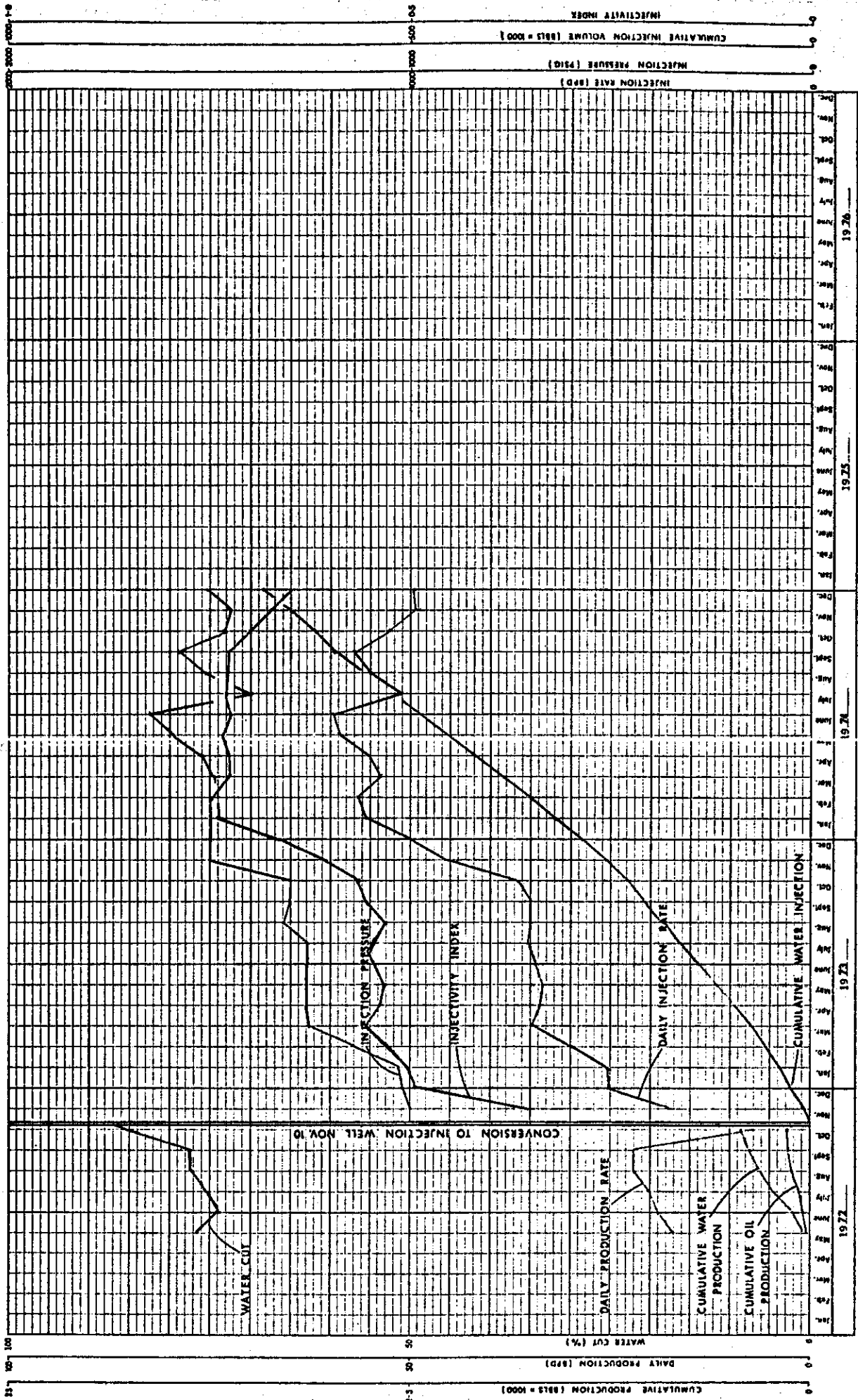
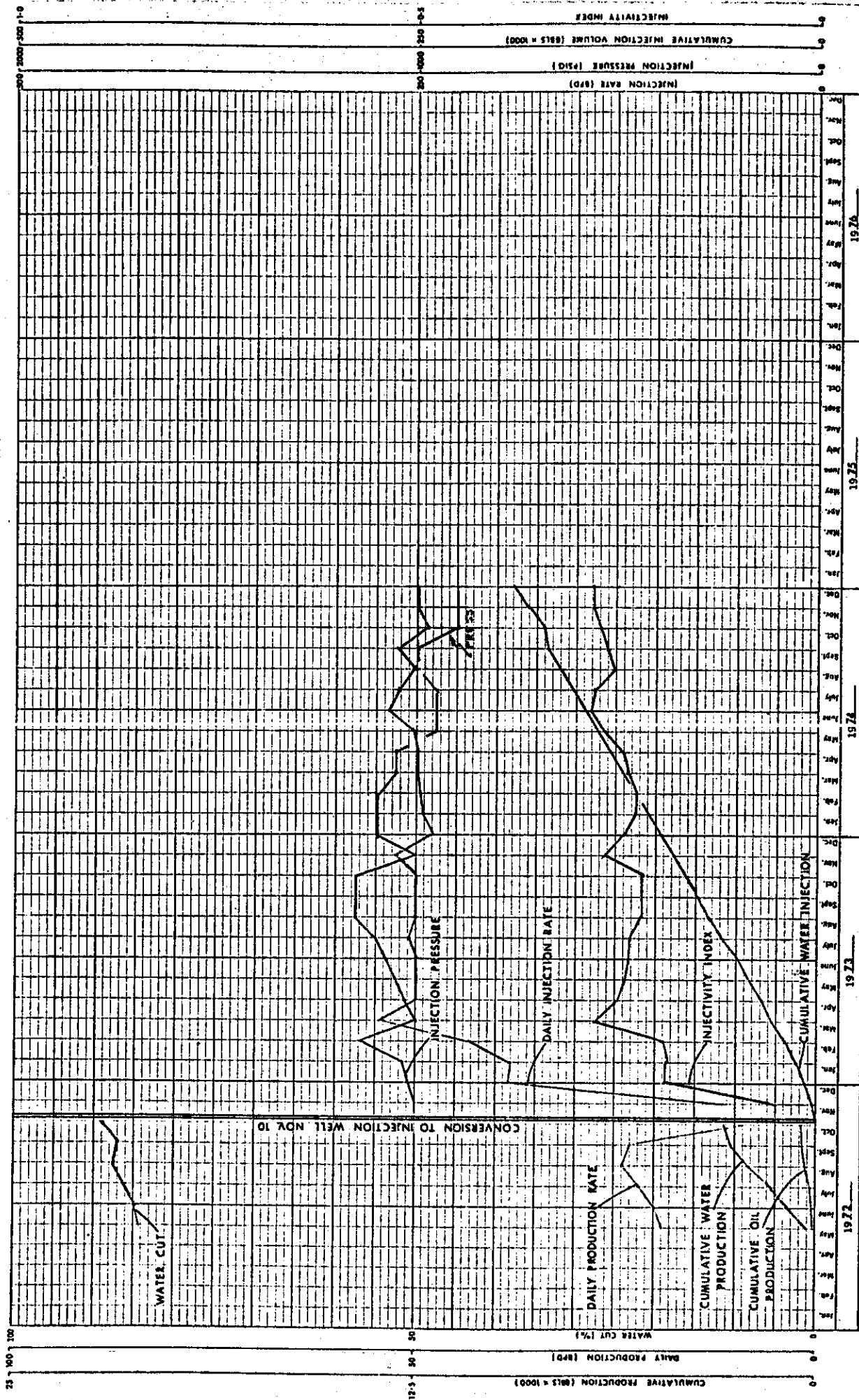


FIGURE 27

# SAMEDAN ROUTLEDGE PROV 14-11-9-25WPM.

FIGURE 28



# SAMEDAN ROUTLEDGE PROV. 6-14-9-25WPM.

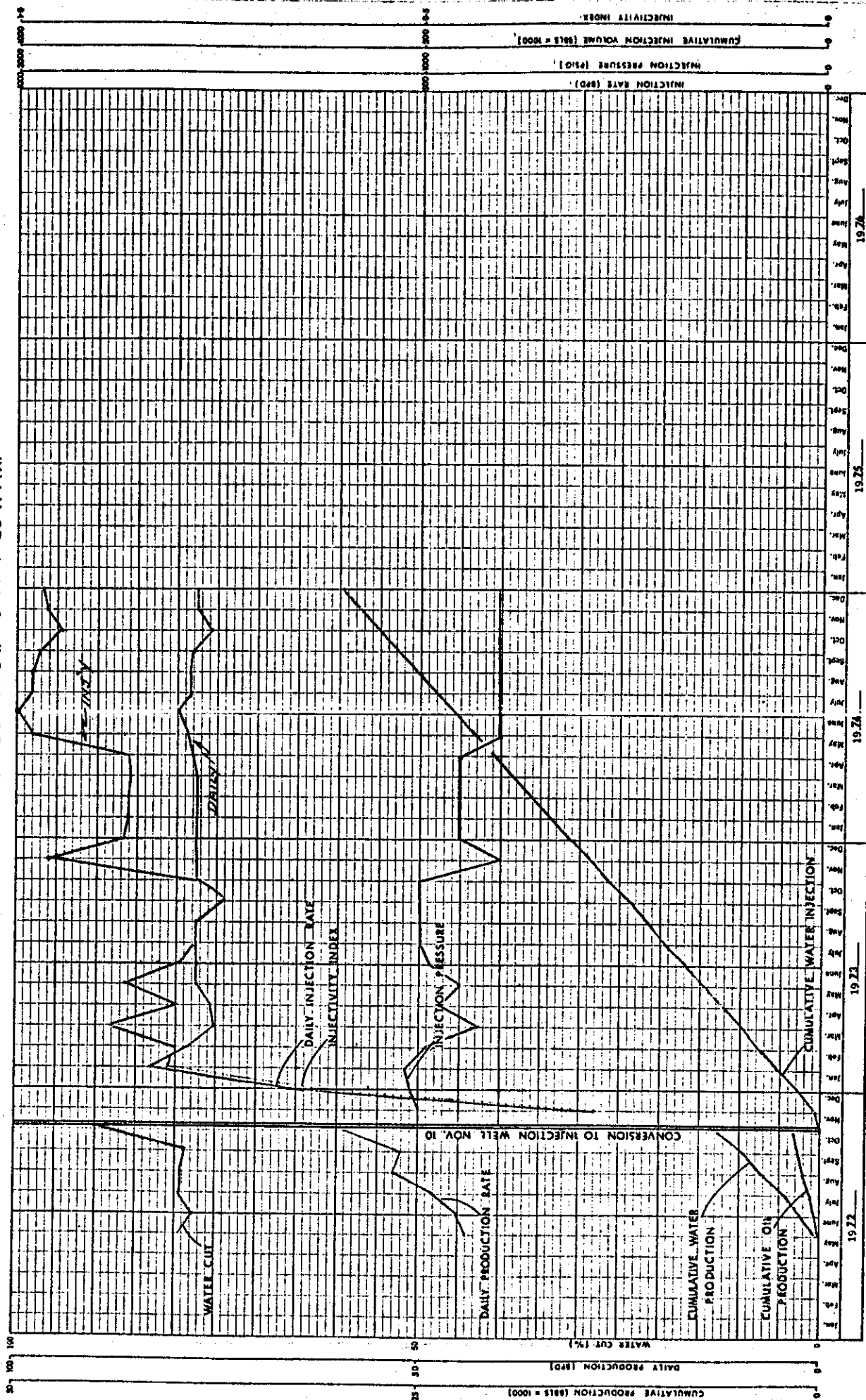


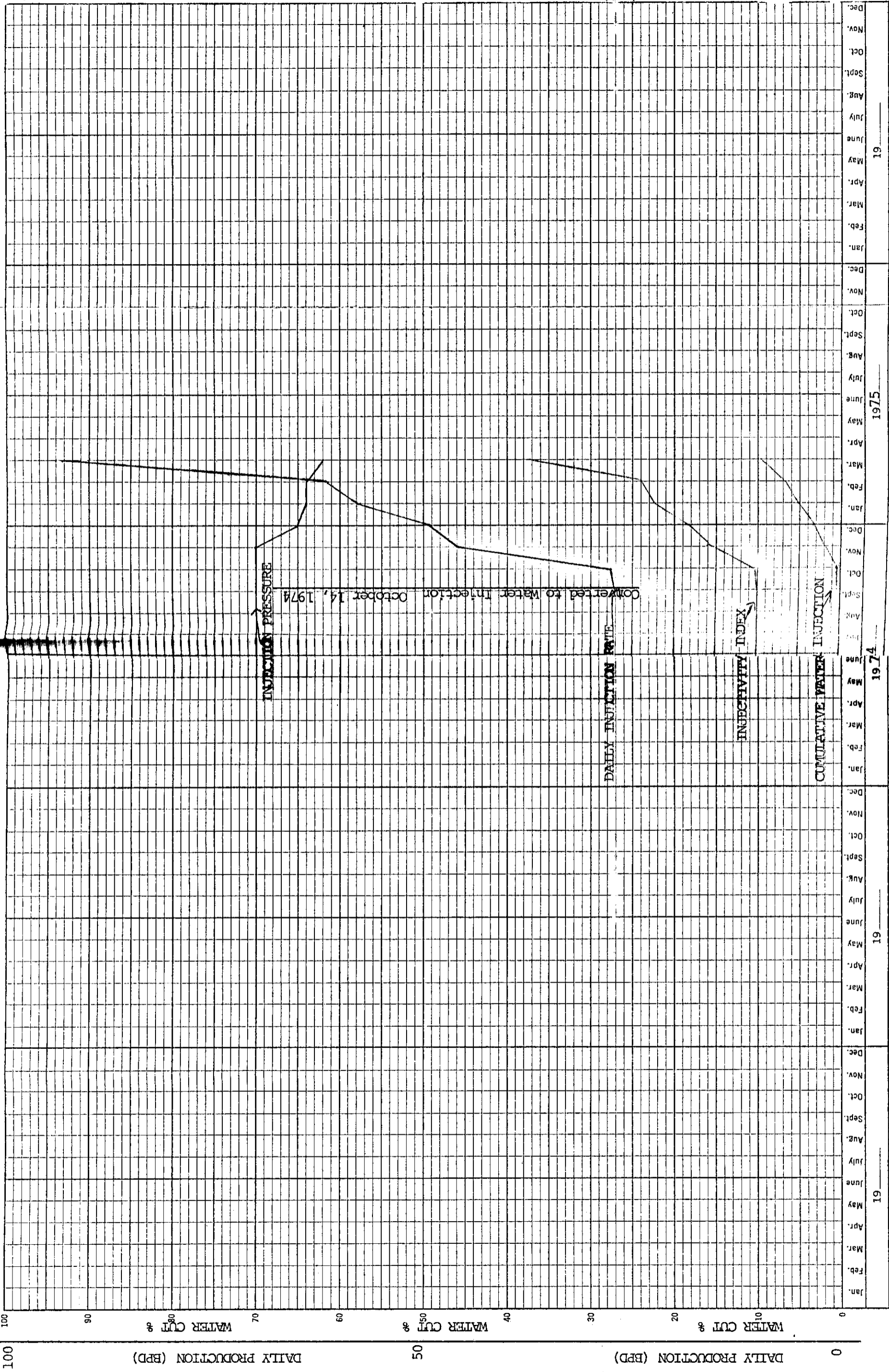
FIGURE 29

SAMEDAN ROUTLEDGE 14-9-25 WPM

1.0  
500  
2000  
500

0.5 INJECTIVITY INDEX  
250 CUMULATIVE INJECTION (BELS x 1000)  
1000 INJECTION PRESSURE (PSIG)  
250 INJECTION RATE (BPD)

0  
0  
0  
0



SAMEDAN ROUTLEDGE 4-11-9-25 WPM

K&E 5 YEARS BY MONTHS 47 3650  
MADE IN U.S.A.  
KEUFFEL & ESSER CO.

