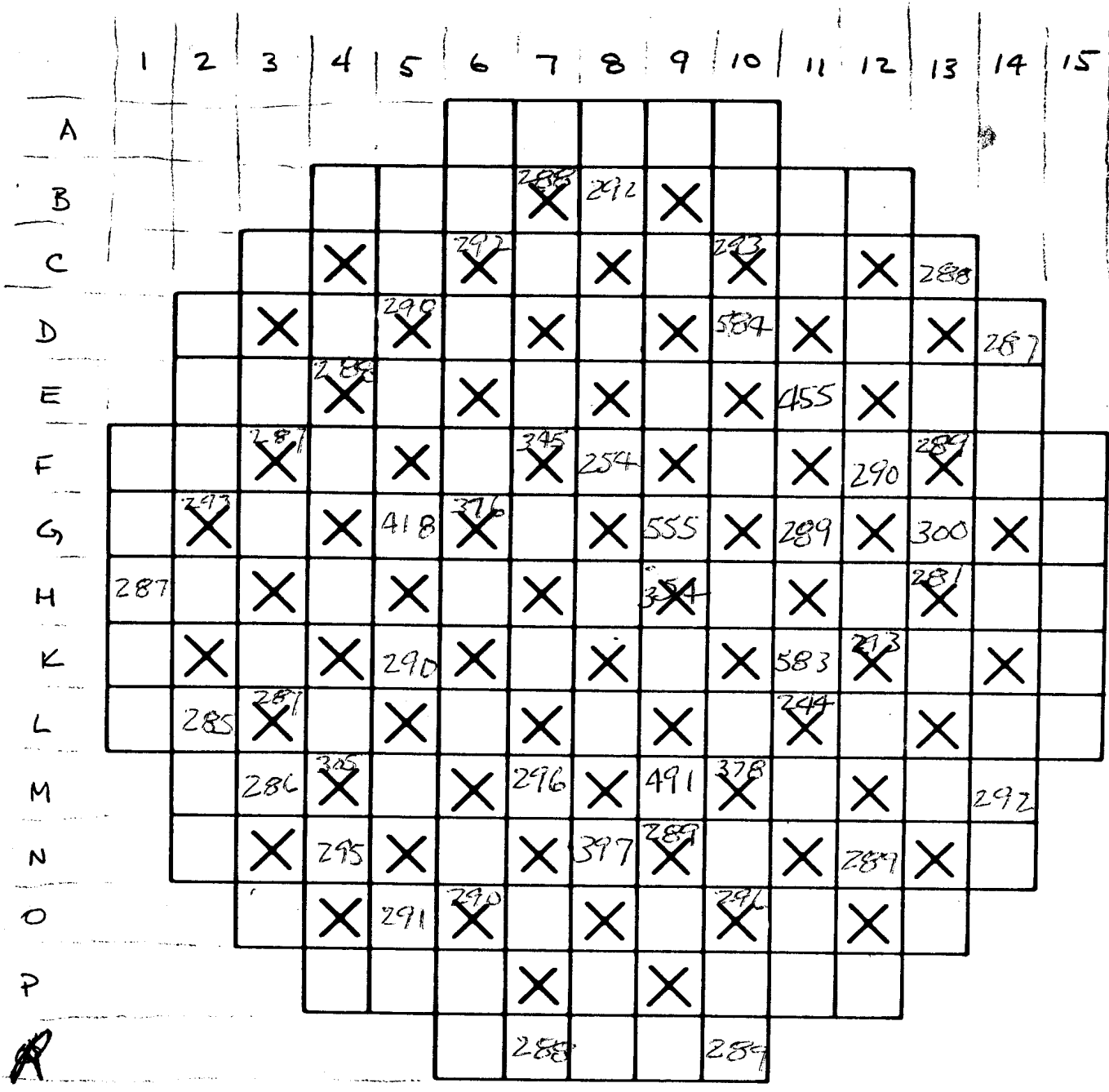


TMI-2 Thermocouple Readings Recorded at
the NRC Operations Center
(March 29 to April 7, 1979)



2:00 3/29/79

1200 HRS

High on US-Pressure

PZP= 838
 TA Inlet 280
 TB Inlet 280
 T PER 525
 L PZR 853
 P SGA 29
 P SGB 34
 LD Flow - Irradiate
 Coolant Rate - 0.2

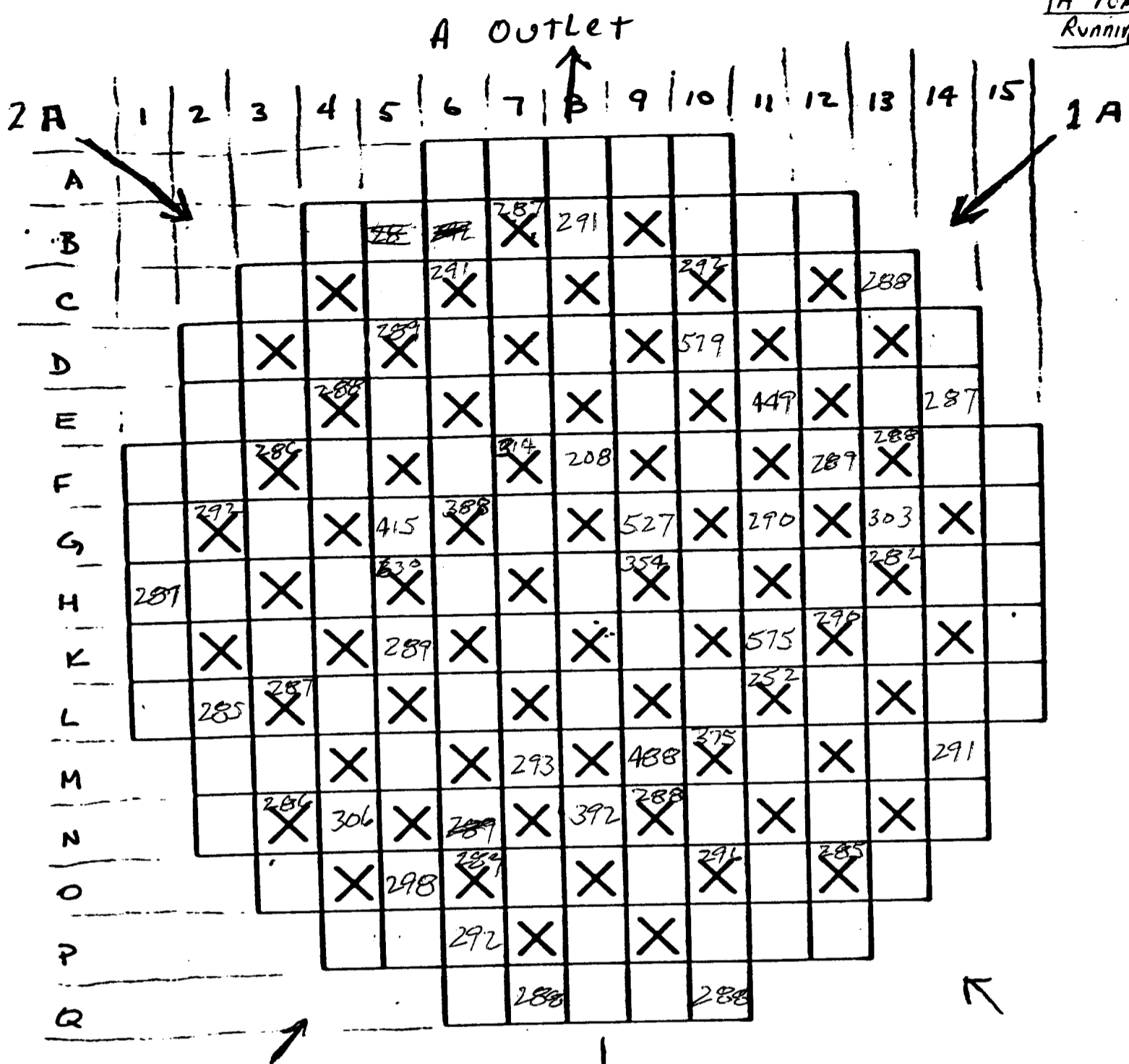
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2

1A PUM Running



3/29/79

Time 1:00 P

Pressurizer Pressure 826

T_A Inlet 279

T_B Inlet 279

T_{pressurizer} 524

L pressurizer 357

Press. S.G. 'A' 28

Press. S.G. 'B' 33

Letdown Flow 0

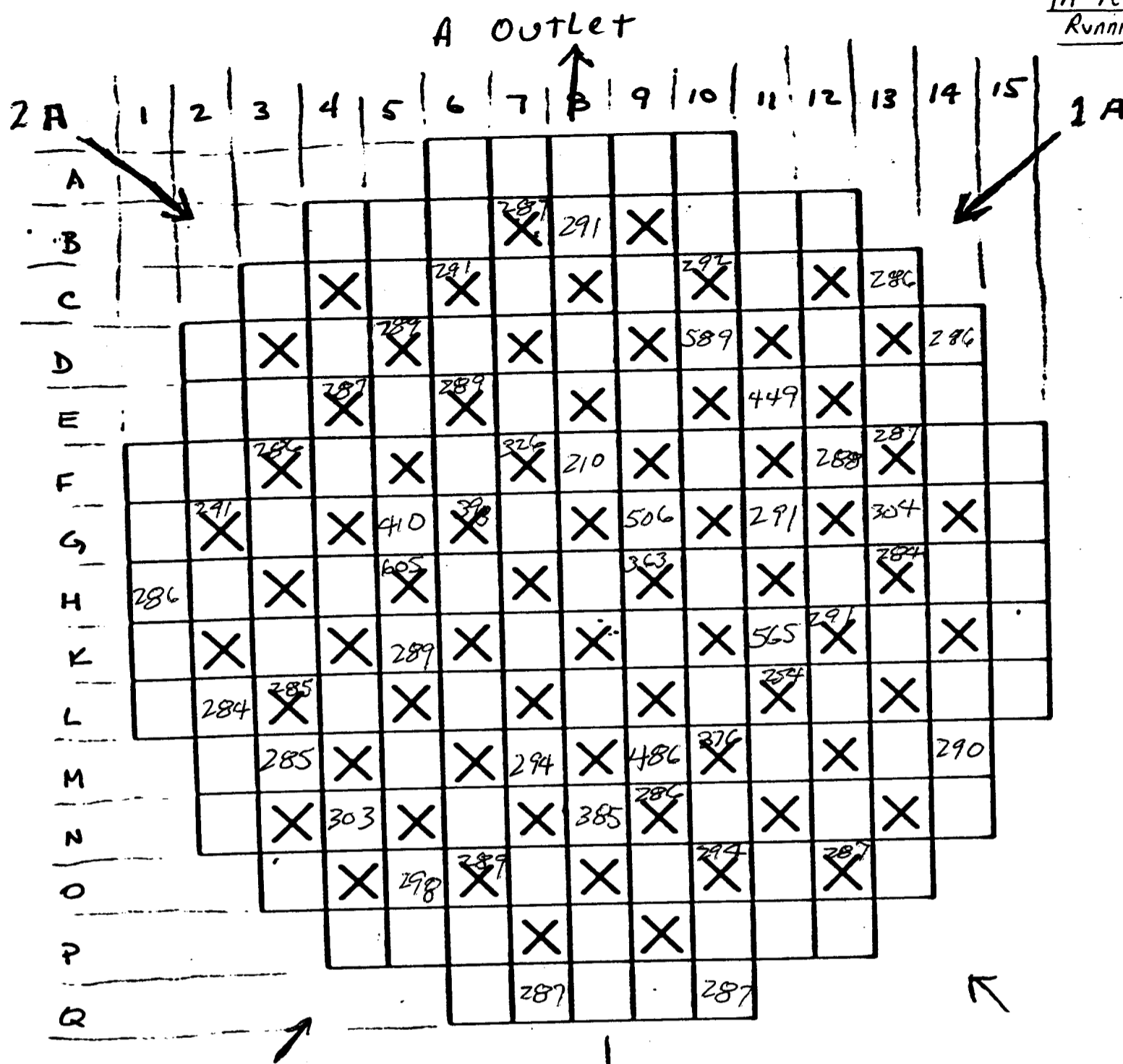
Letdown Rate 0

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



3/29/79

B Outlet

Time 2:10

Pressurizer Pressure 838

T_A inlet 278

T_B inlet 278

T_{pressurizer} 526

L_{pressurizer} 355

Press. S.G. A' 28

Press. S.G. B' 33

Letdown flow 0

cooldown Rate -2.2

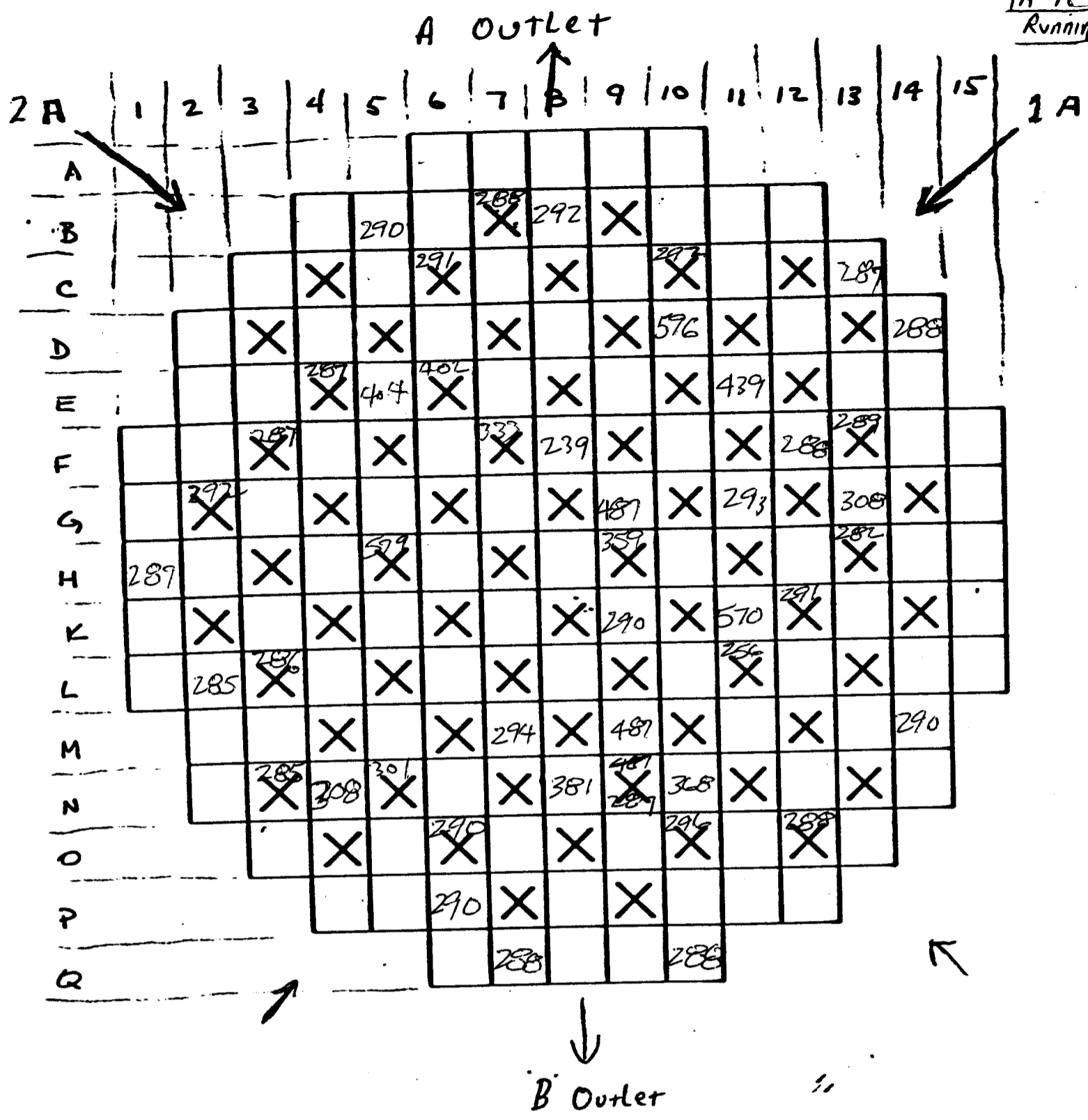
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2

1A A Running



Time 3:00

Pressurizer Pressure 906

T_A Inlet 279

T_B Inlet 279

T_{pressurizer} 537

L_{pressurizer} 323

Press. S.G. 'A' 28

Press. S.G. 'B' 33

Letdown Flow 0

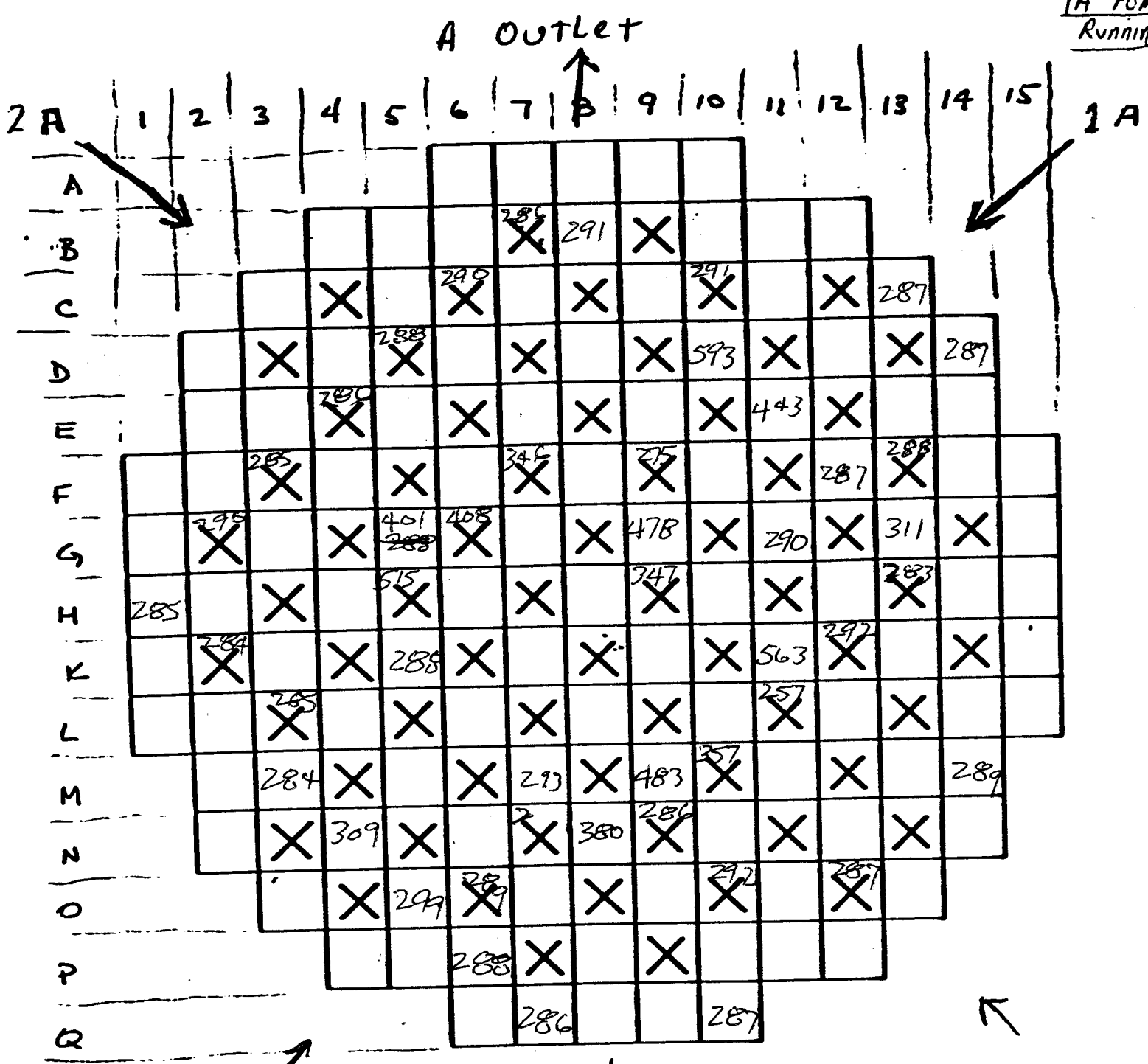
cooldown Rate -6

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2

1A Pom Running



3/29/79

Time 4:00

Pressurizer 904
Pressure

T_A inlet 278

T_B inlet 278

T_{pressurizer} 536

L_{pressurizer} 318

Press. S.G. 'A' 28

Press. S.G. 'B' 33

Letdown flow

cooldown Rate -0.9

Aut Feed Flow
Temp 105

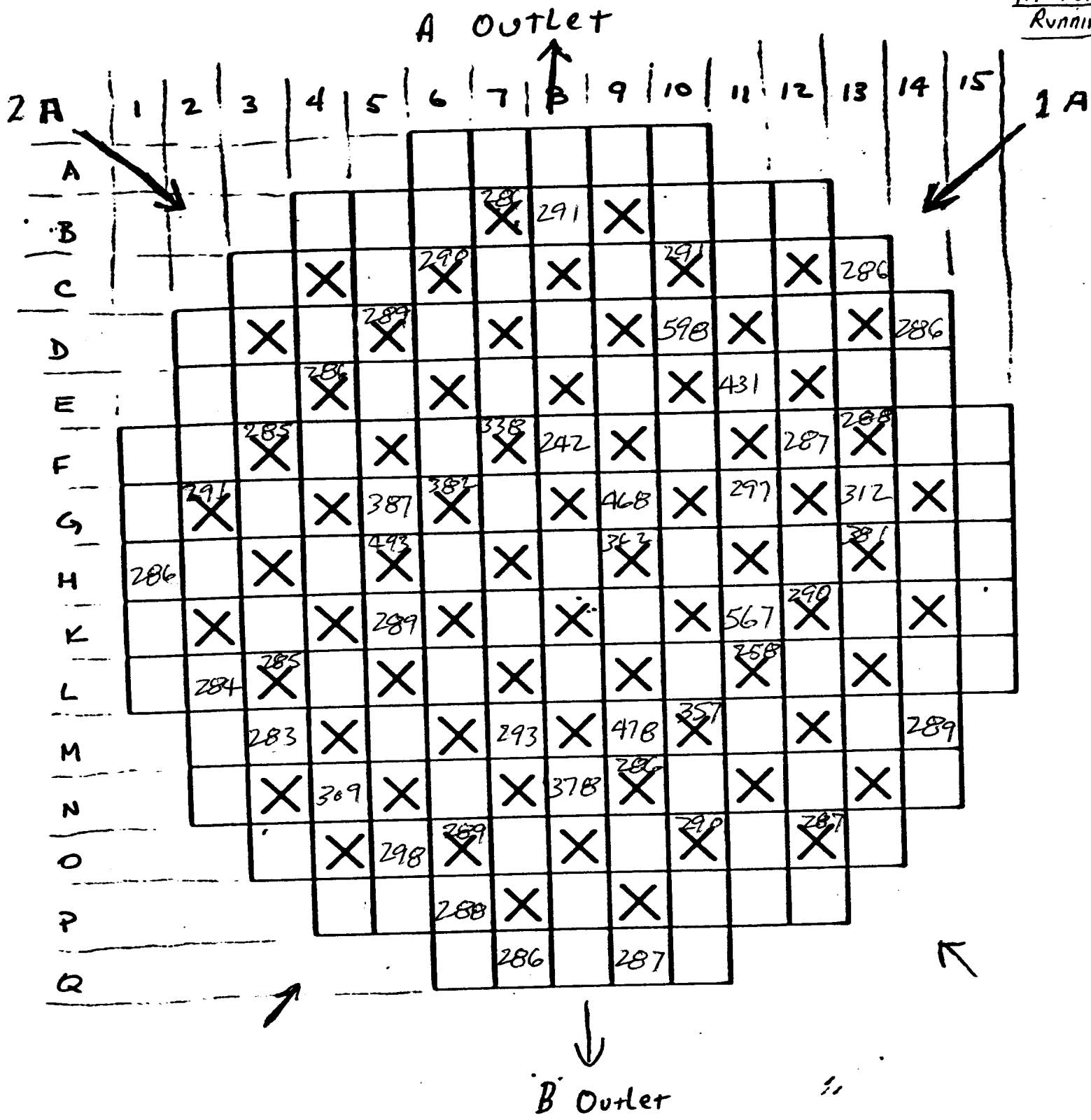
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

1A PUMP
Running



Time 5:00

Pressurizer Pressure 932

T_A inlet 278

T_B inlet 278

T_{pressurizer} 540

L_{pressurizer} 311

Press. S.G. 'A' 26

Press. S.G. 'B' 32

Letdown Flow Water

cooldown Rate -.6

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

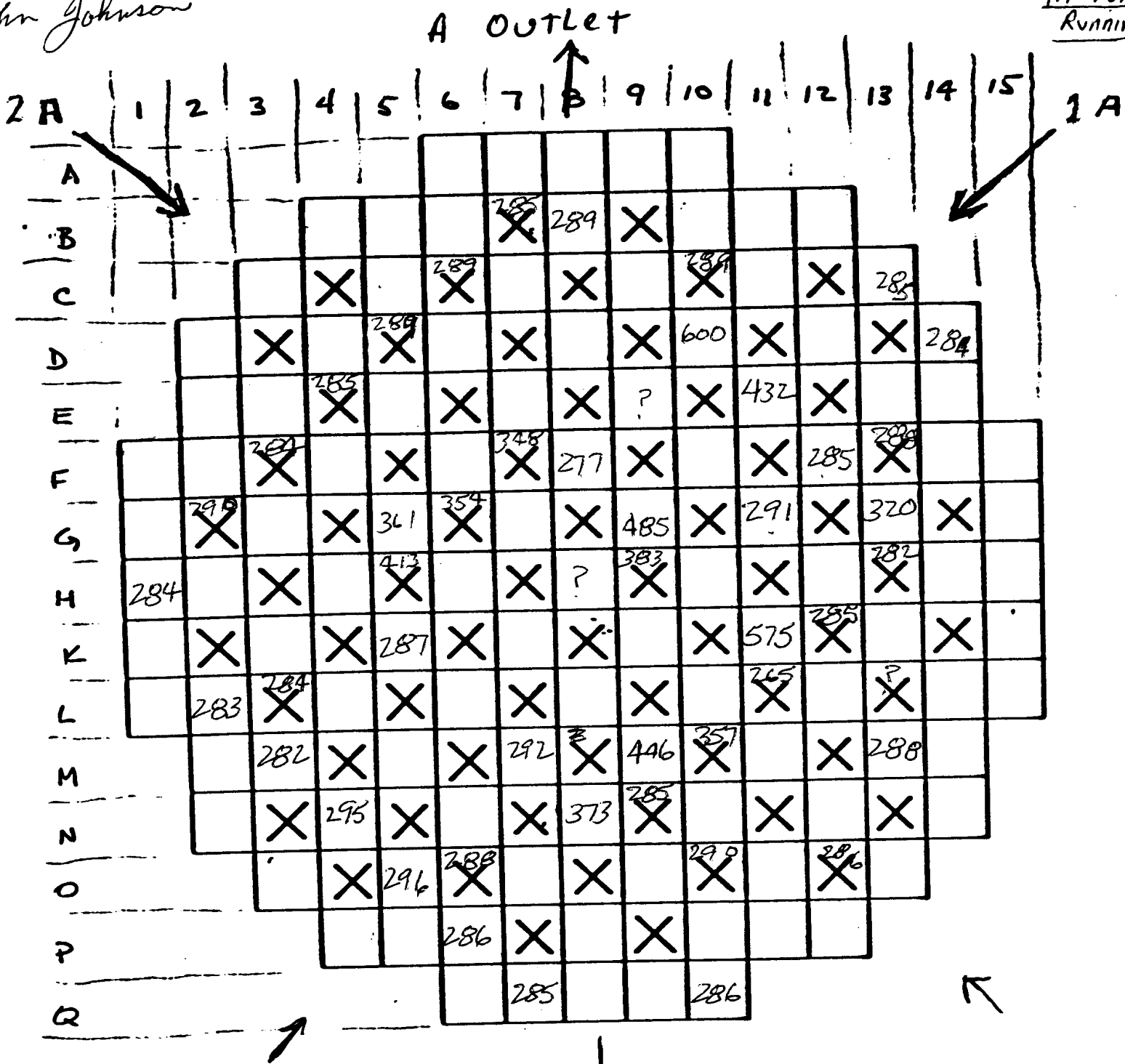
THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2

John Johnson

1A PGM Running



3/29/79

Time 7:00

Pressurizer Pressure 945

T_A inlet 277

T_B inlet 277

T_{pressurizer} 542

L pressurizer 321

Press. S.G. 'A' 26

Press. S.G. 'B' 31

Letdown flow -.4

Cool down Rate

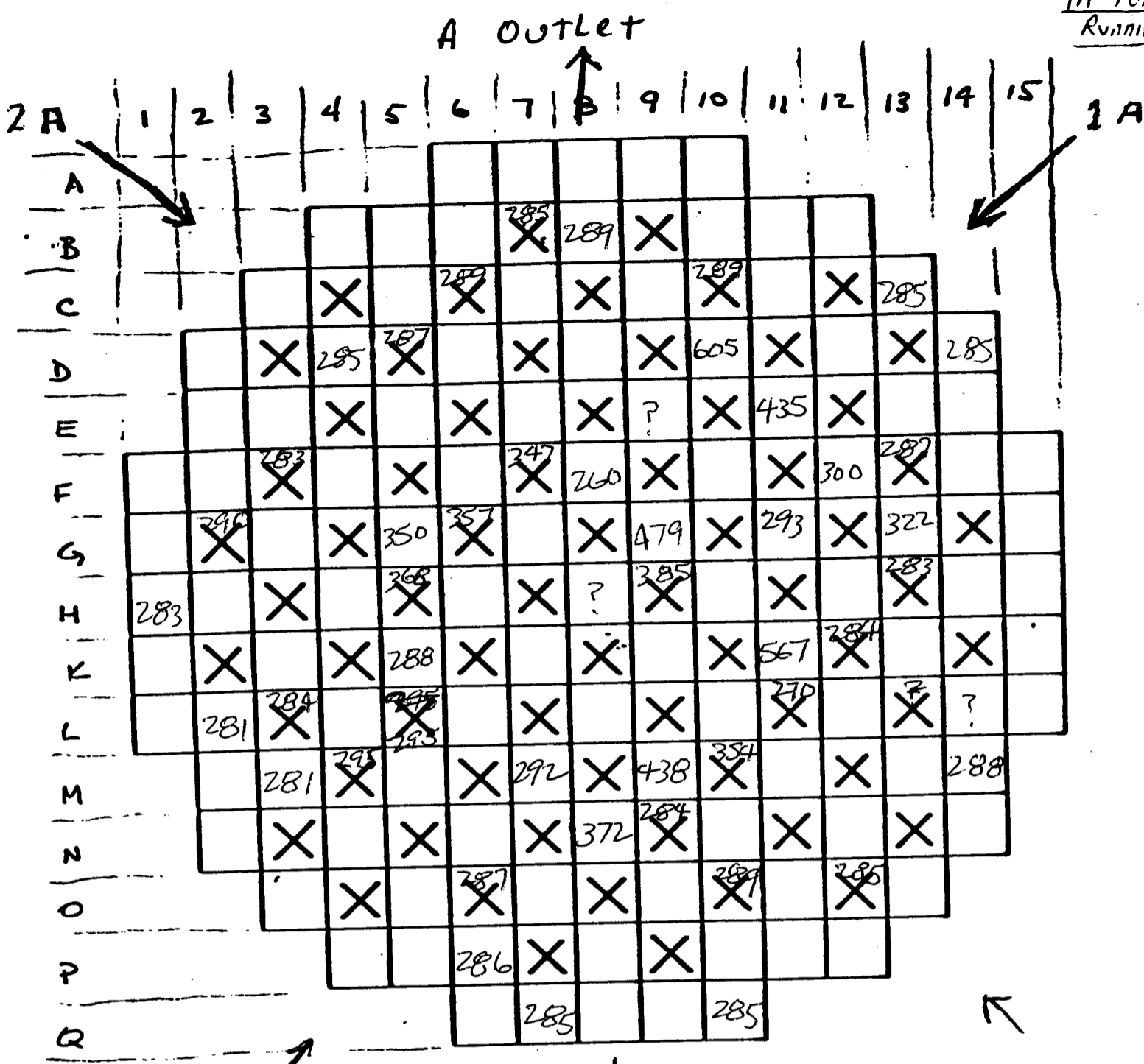
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

1A Pump Running



3
2/29/79

Time 8:00

Pressurizer Pressure 940

TA Inlet 276

TB Inlet 276

T Pressurizer 542

L Pressurizer 320

Press. S.G. 'A' 26

Press. S.G. 'B' 31

Letdown Flow

Cool down Rate -4

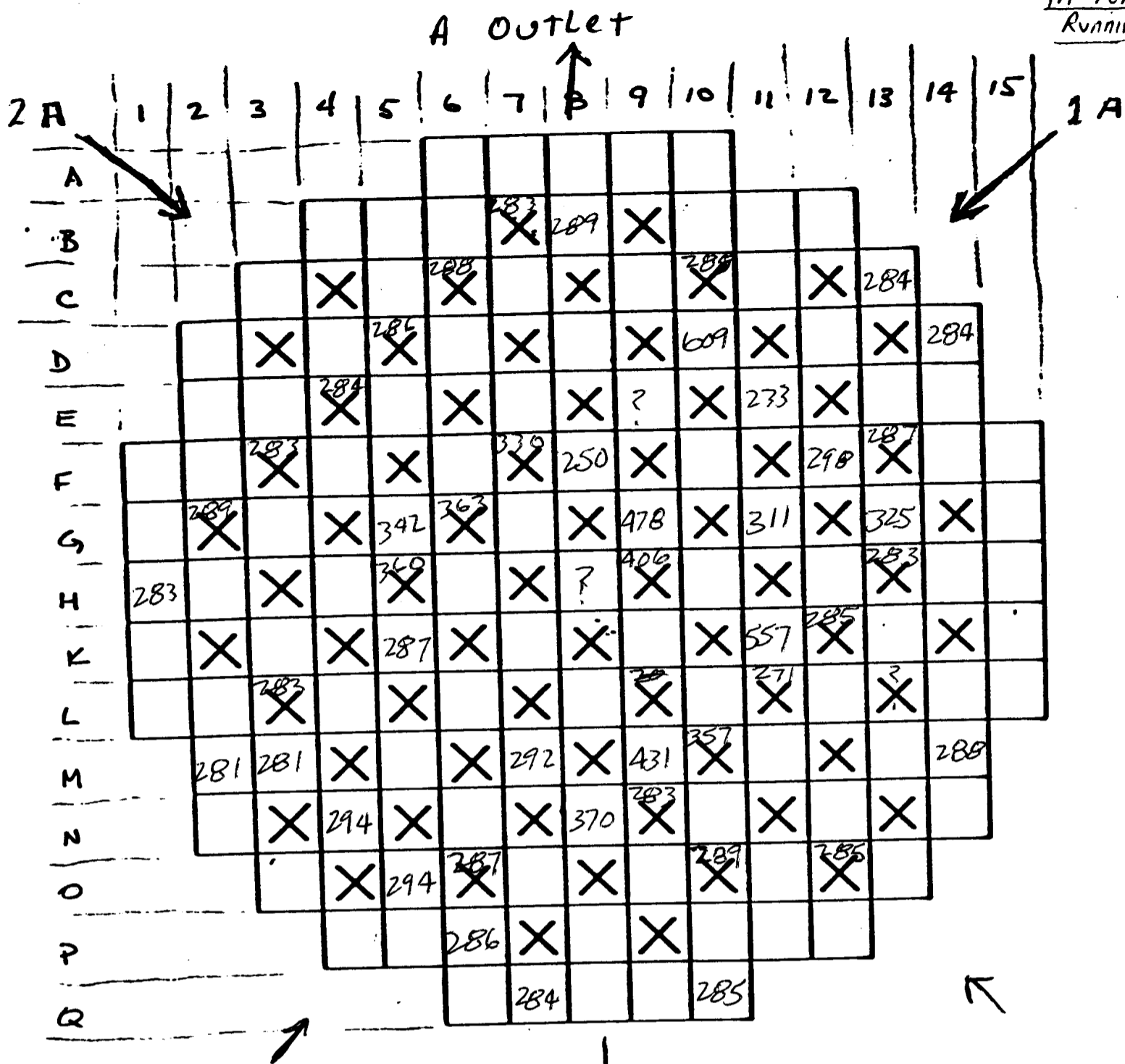
B Outlet

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2



3/29/79

Time 9:00

Pressurizer Pressure 954

T_A inlet 276

T_B inlet 276

T_{pressurizer} 543

L_{pressurizer} 321
231

Press. S.G. A 25

Press. S.G. B 30

Letdown Flow 20

cooldown Rate - .2

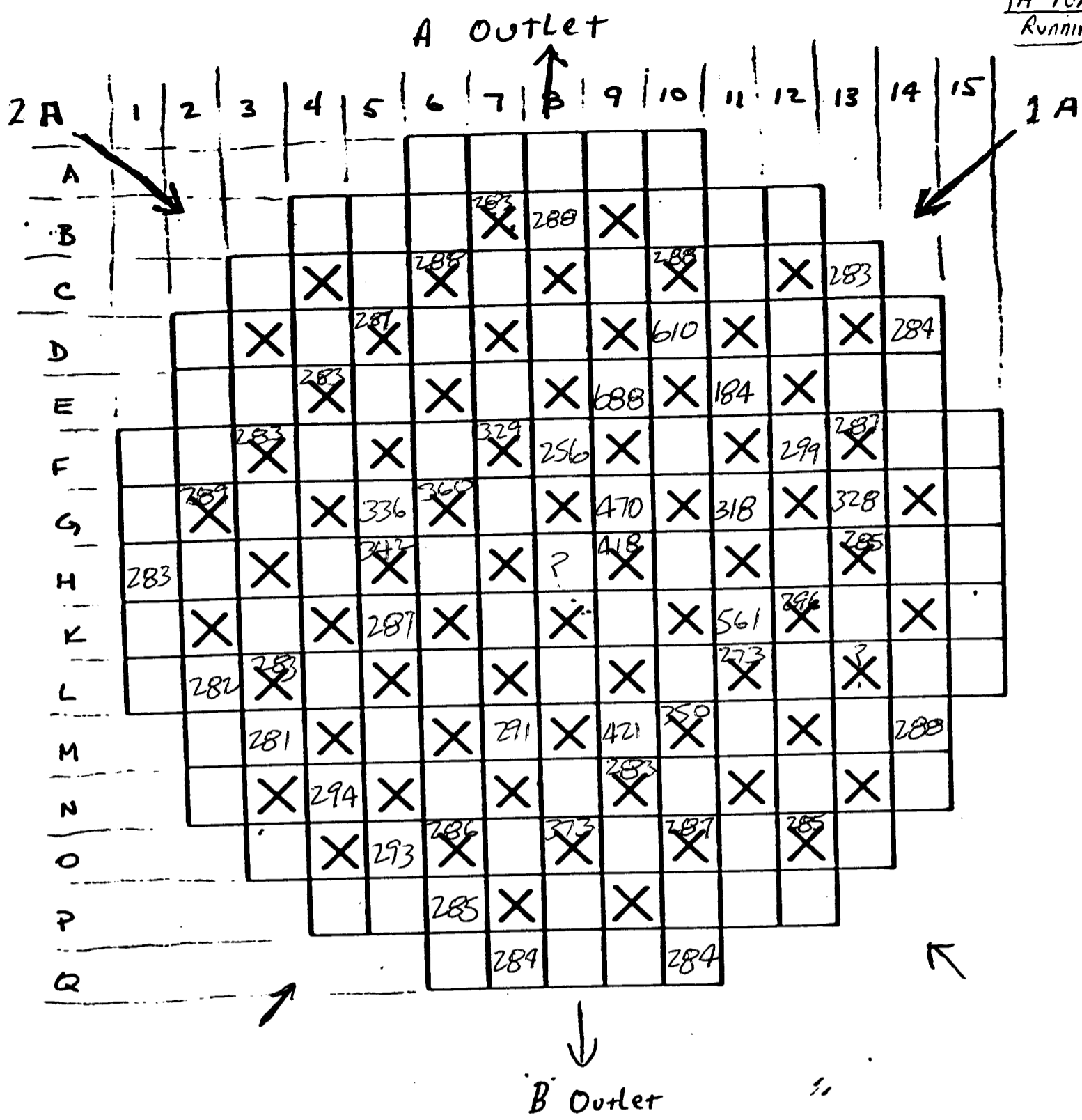
B Outlet

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2



Time 10:00

Pressurizer Pressure 976

T_A Inlet 276

T_B Inlet 276

T_{pressurizer} 546

L_{pressurizer} 323

Press. S.G. 'A' 30

Press. S.G. 'B' 25

Letdown Flow variable 0-30

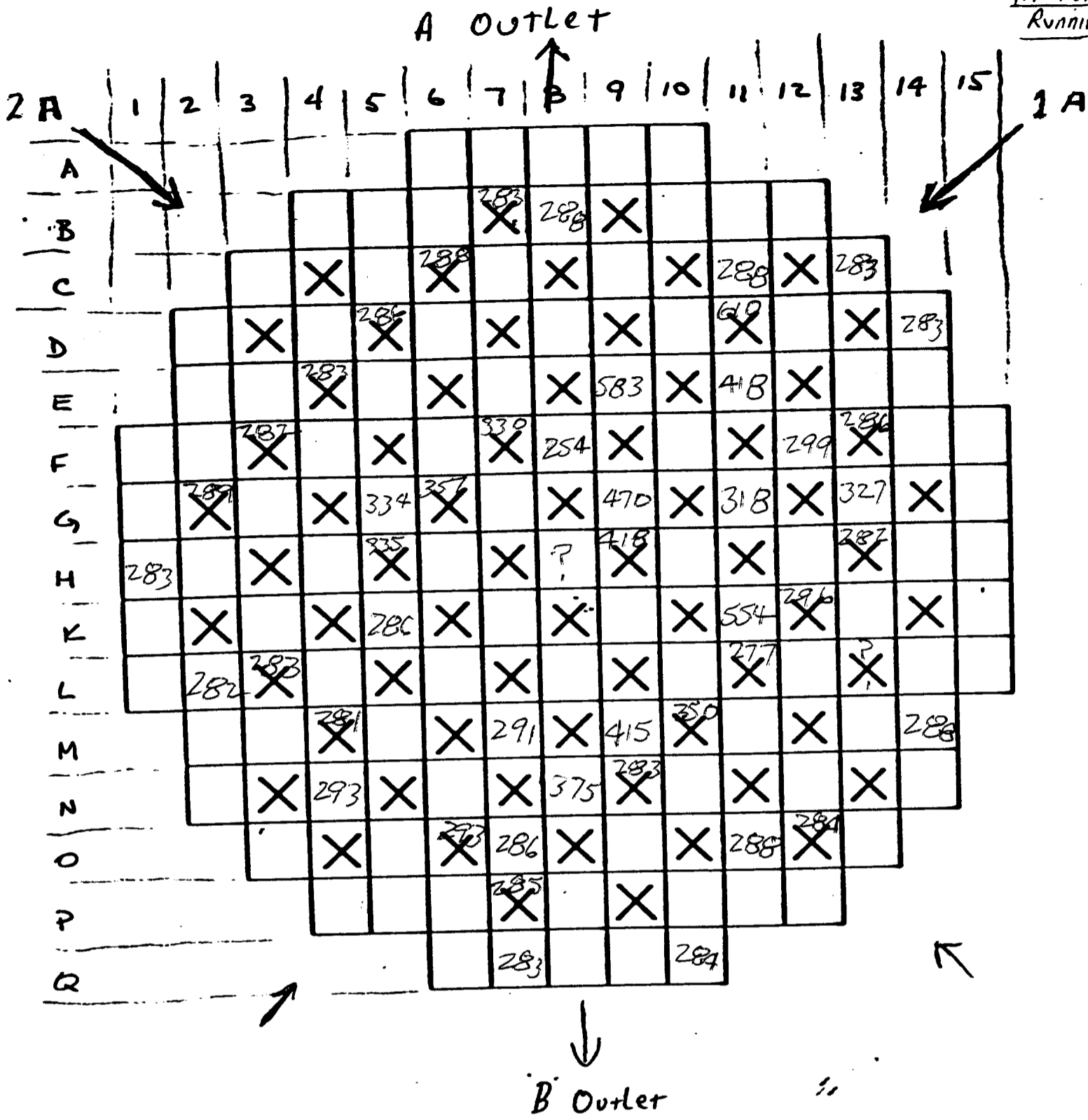
cool down Rate 1.2

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Time 11:00

Pressurizer Pressure 1004

T_A inlet 275

T_B inlet 275

T_{pressurizer} 549

L_{pressurizer} 326

Press. S.G. 'A' 30

Press. S.G. 'B' 25

Letdown Flow

Cooldown Rate -14

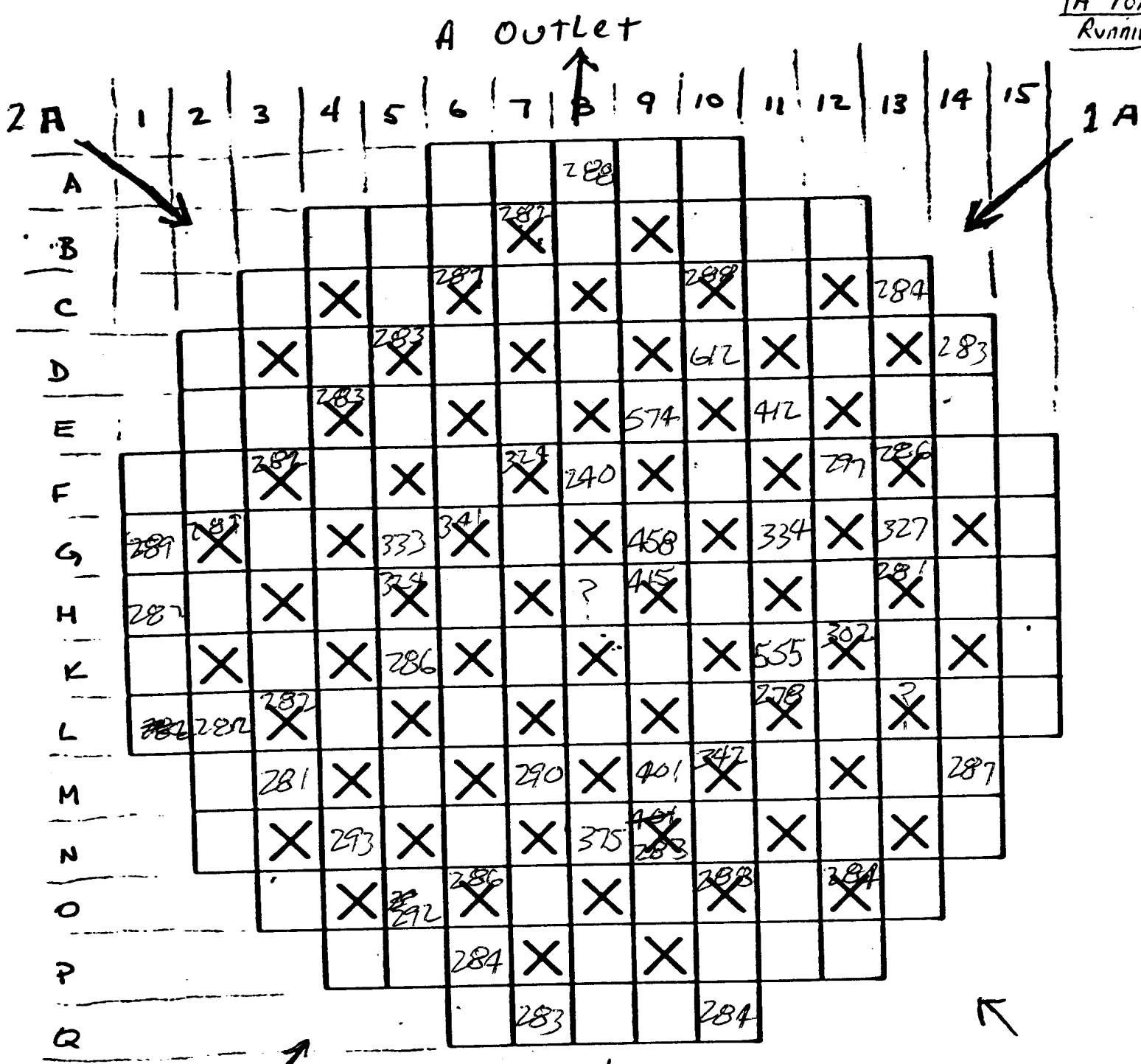
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

1A PUMP
Running



3/30
3/29/79

Time 12:01 AM

Pressurizer Pressure 1023

T_A Inlet 275

T_B Inlet 275

T_{pressurizer} 551

L_{pressurizer} 326

Press. S.G. A 30

Press. S.G. B 24

Letdown Flow Direct

cool down Rate = 12

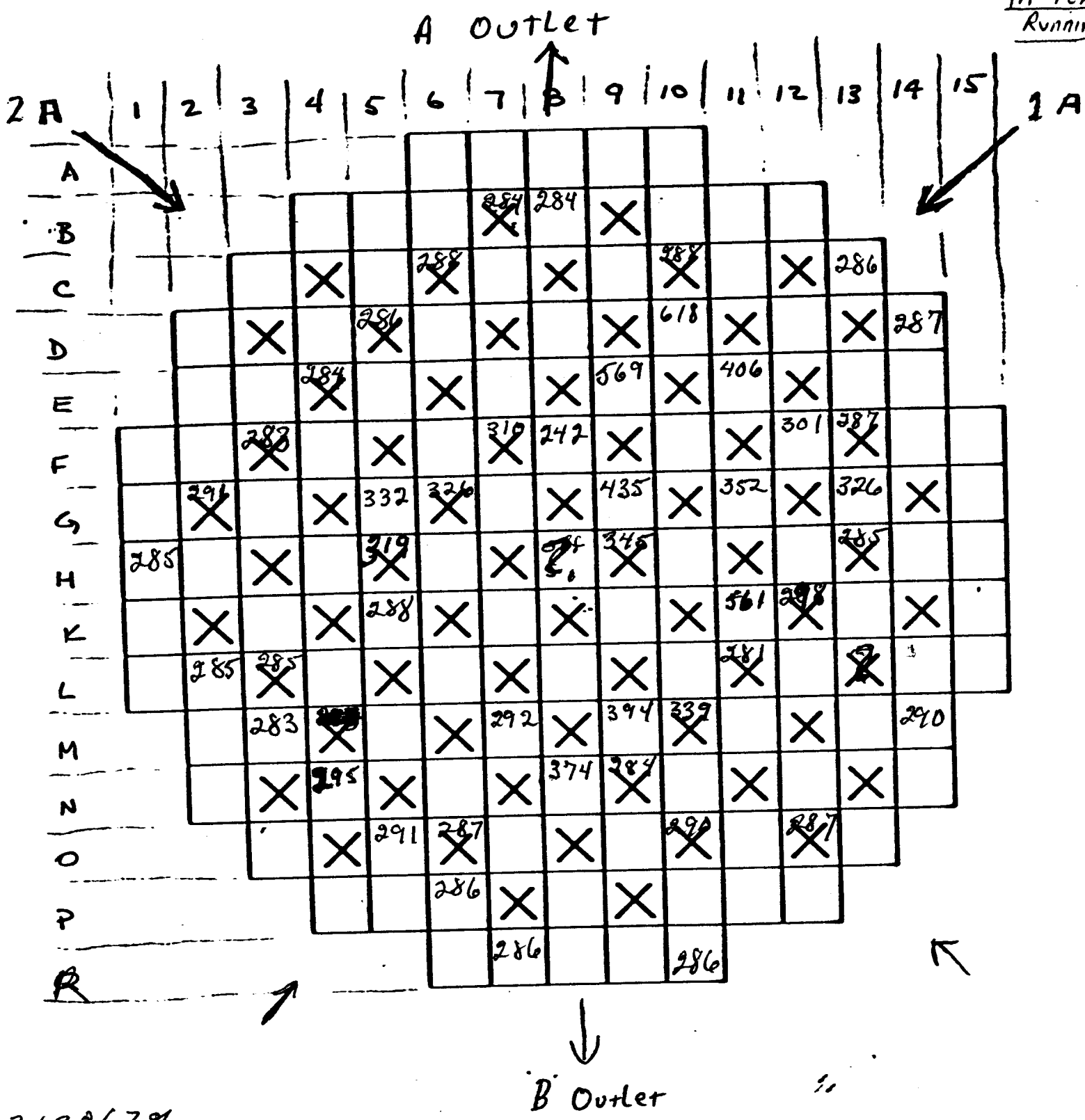
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

1A PUMP
Running



3/30/79

Time 1:28 AM

Pressurizer Pressure 1043

TA Inlet 275

TB Inlet 275

T_{pressurizer} 554

L_{pressurizer} 326

Press. S.G. 'A' 30

Press. S.G. 'B' 24

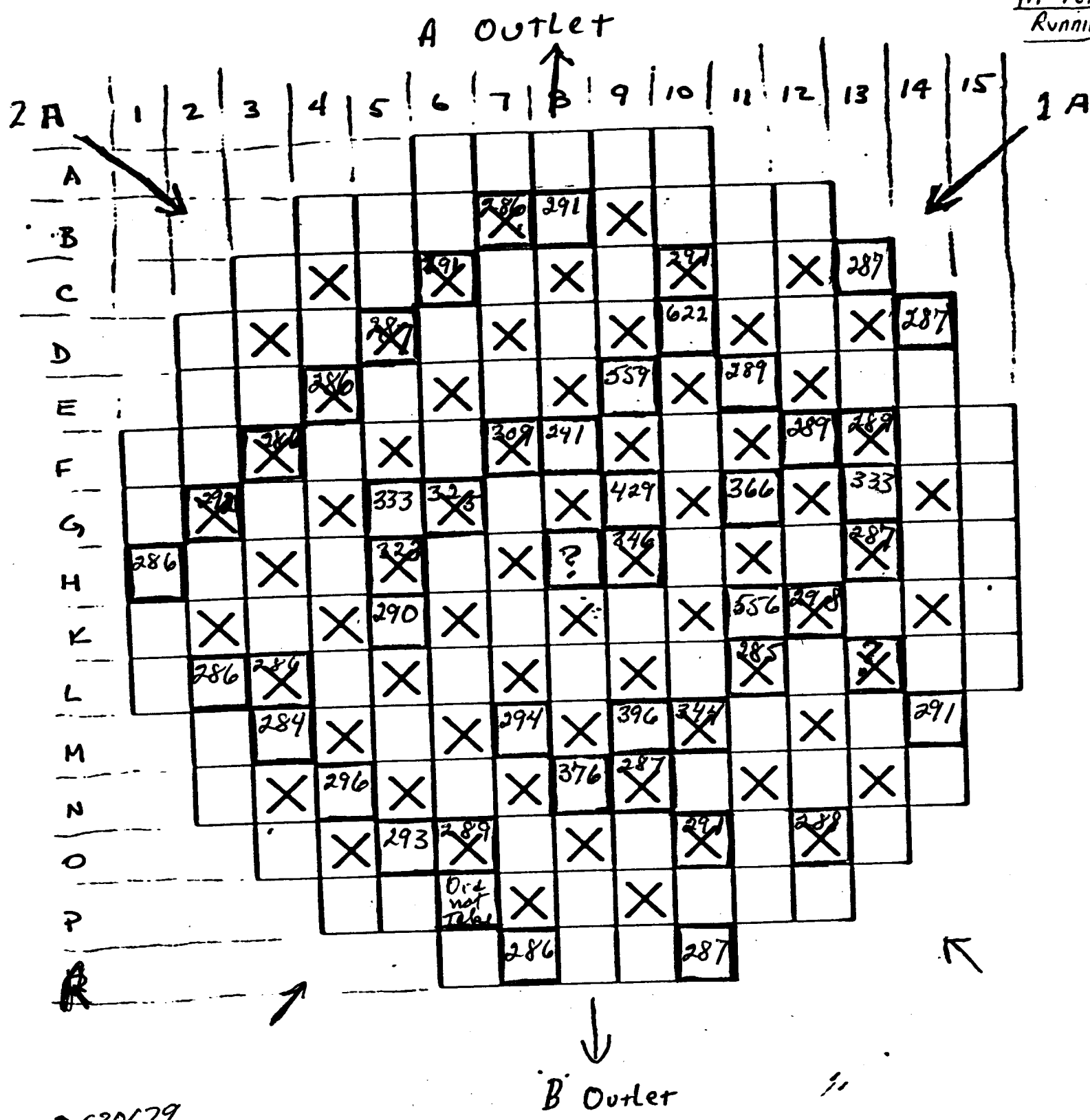
Letdown Flow 0-30

Cool down Rate -0.2

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2



3/30/79

Time 0200

Pressurizer Pressure 1049

T_A inlet 278

T_B inlet 278

T_{pressurizer} 555

L_{pressurizer} 336

Press. S.G. 'A' 32

Press. S.G. 'B' 26

Letdown flow 0-30 gpm

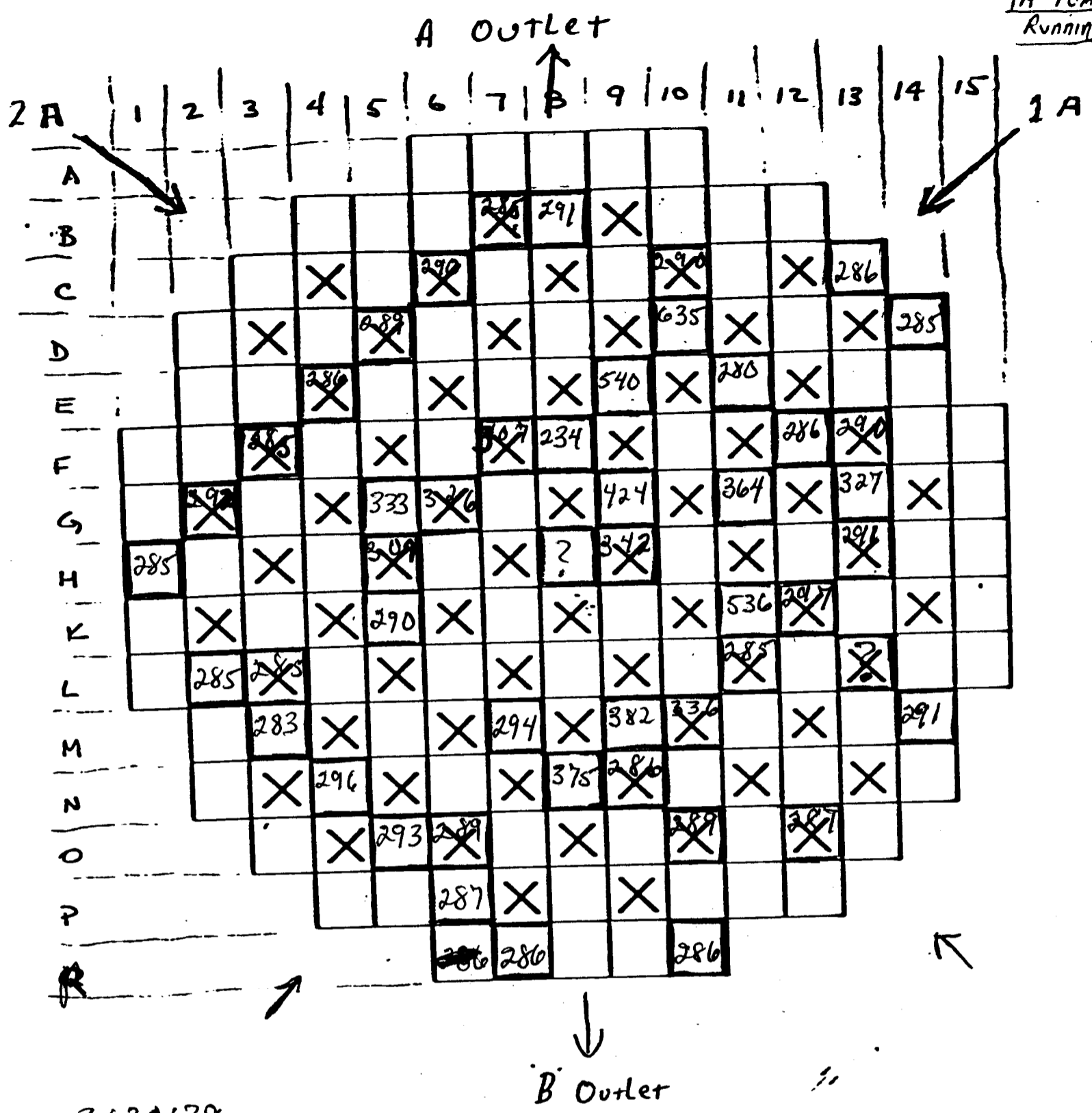
cooldown rate -1.5

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



3/30/79

Time 0807

Pressurizer Pressure 1055

T_A inlet 278

T_B inlet 278

T_{pressurizer} 556

L_{pressurizer} 342

Press. S.G. A 31

Press. S.G. B 26

Letdown flow 0-30

cool down Rate +0.2

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2

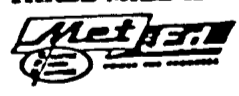
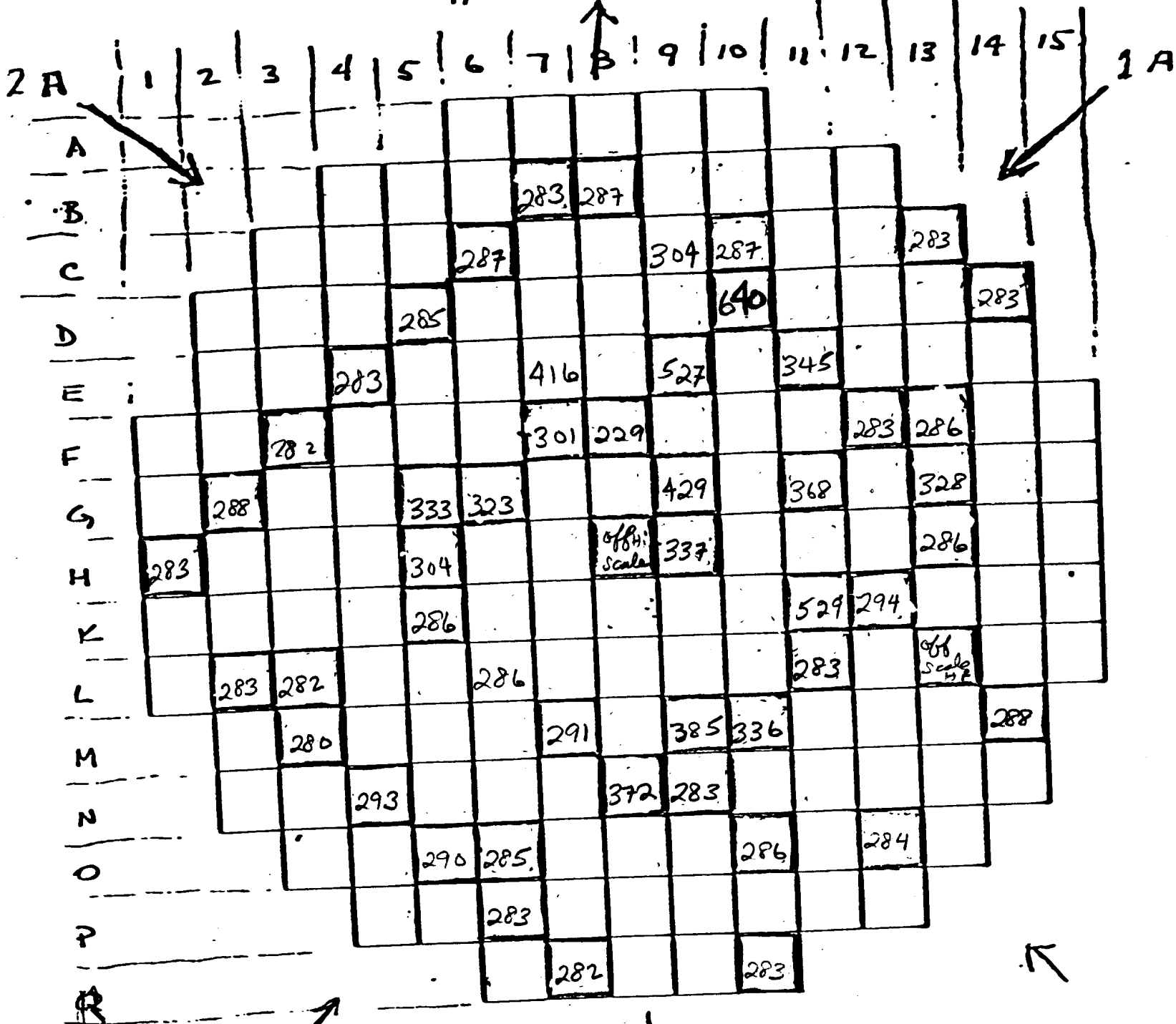


FIGURE 43-2

A Outlet



3/30 0400 rdg
 3/30/79 0404

B Outlet

Time 0404

Containment vacuum -1.

Pressurizer Pressure 105.9 psig

T_A inlet 275 F

T_B inlet 275 F

T_{pressurizer} ~~349 F~~ 556 F

L_{pressurizer} 349"

Press. S.G. A 29.

Press. S.G. B 24

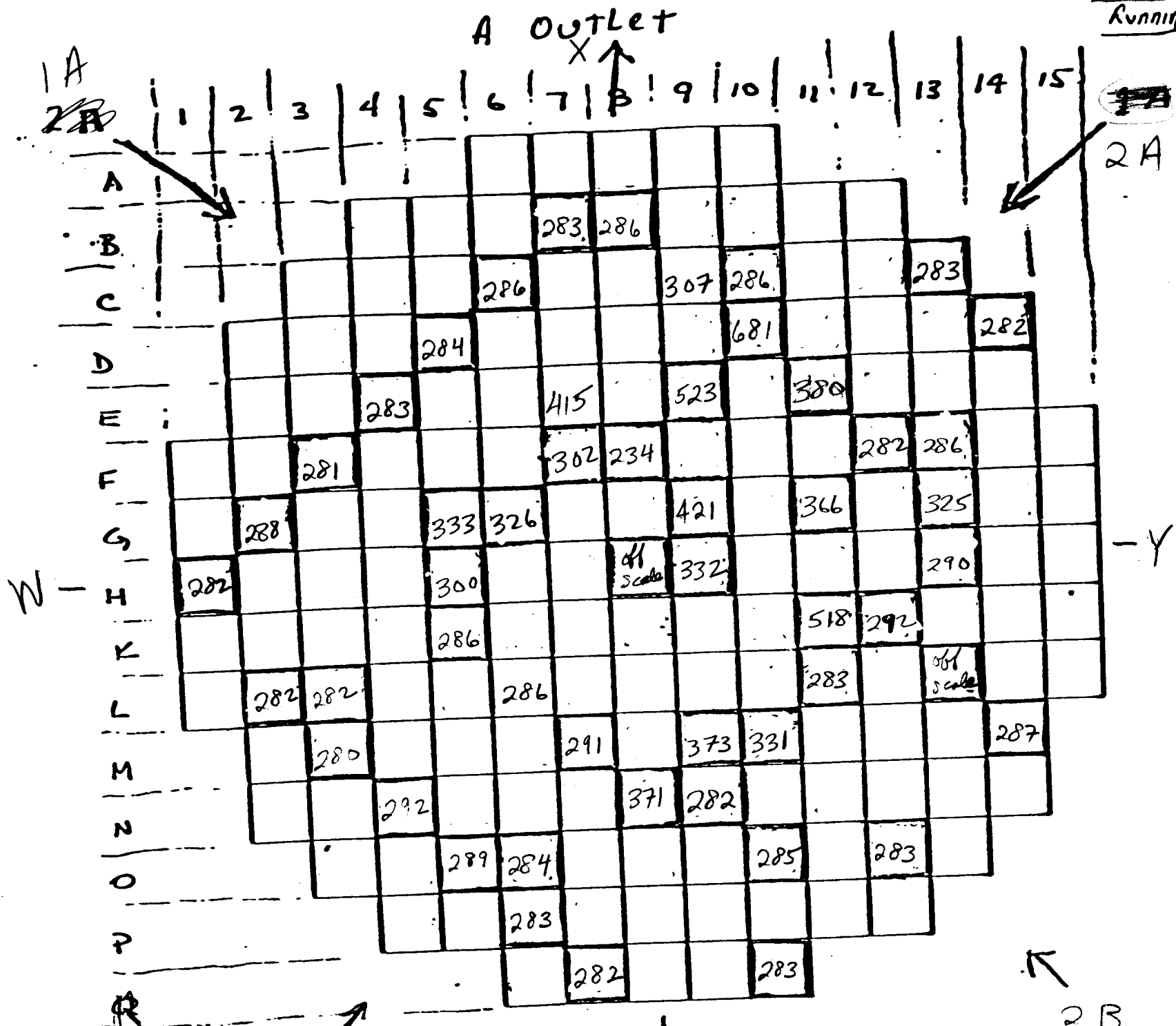
Letdown flow ~ 0-20 gpm

Press. Rate -1.3 °F/hr

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



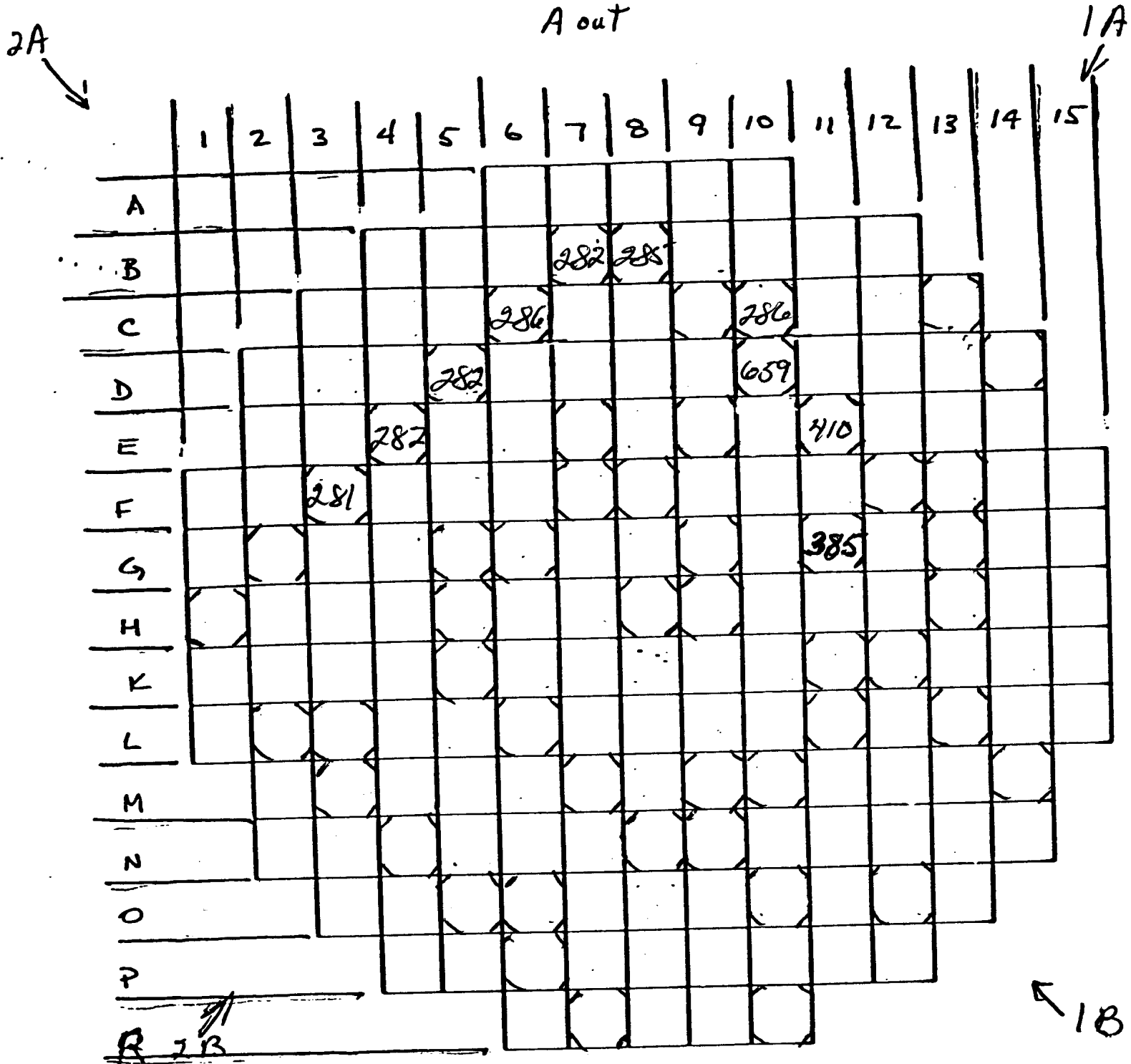
OSDB
 3/30/79
 Time 0500
 Pressurizer Pressure 106.3 psig
 T_A inlet 274 F
 T_B inlet 274 F
 T_{pressurizer} 557 F
 L_{pressurizer} 354"
 Press. S.G. A' 2.2
 Press. S.G. B' 2.3
 Letdown flow 0-1.6 gpm
 Coolant flow 0.2 F/hr

B Outlet
 Z

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Date 3/30/79
 Time 0720

Press. Pressure 1084

TA inlet 274

TB inlet 274

T pressure 559

L pressurizer 356

Press SGA 28

Press SGB 23

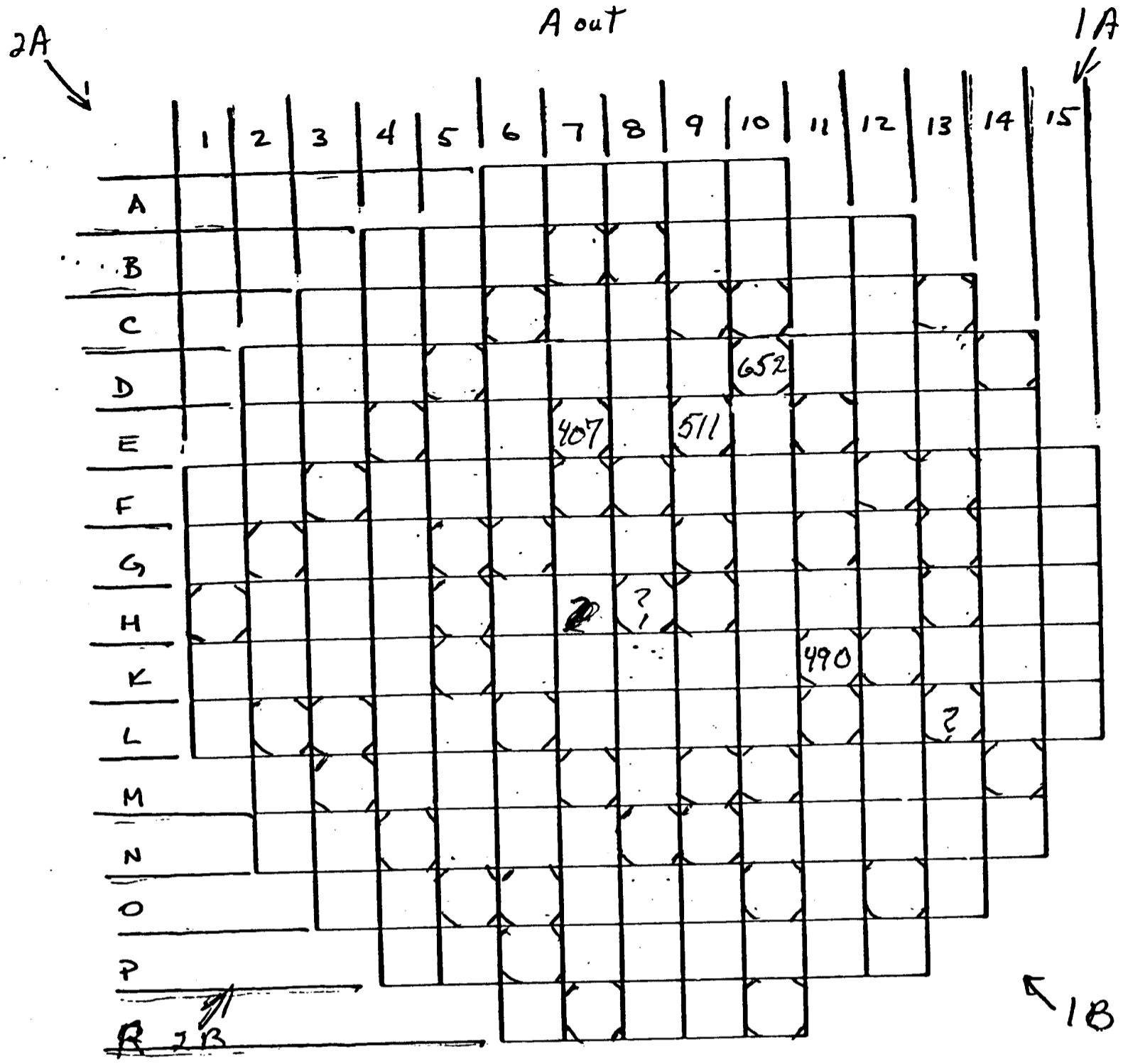
Letdown Flow ~~2.0~~ 0

Cooldown rate -2.0 F/hr

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Date 3/30/
 Time 0827
 Press. Pressure 1037
 TA inlet 274
 TB inlet 273
 T pressure ~~28~~ 554
 L pressurizer 366
 Press SGA 28
 Press SGB 22
 Letdown Flow 0 letdown
Heatup +5.1

B out

PZ R is solid per Higgins

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2

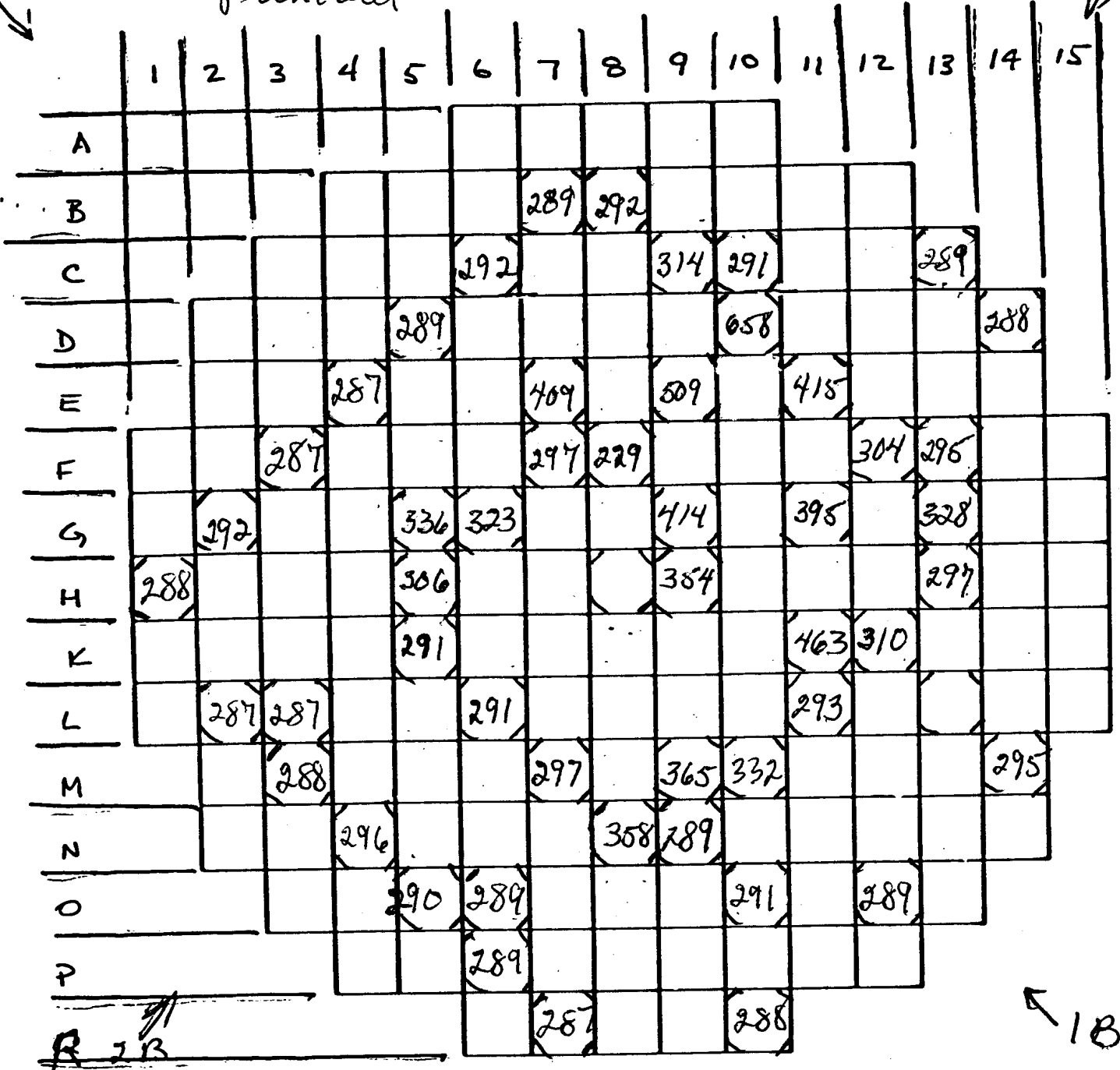


FIGURE 43-2

2A ↘

(1205-1212) A out
printout

1A ↙



↙ 1B

Date 3/30

B out

Time 1220

Press. Pressure 1055

TA inlet 281

TB inlet 280

T pressure 557

L Pressurizer 255"

Press SGA 28

Press SGB 33

Letdown Flow

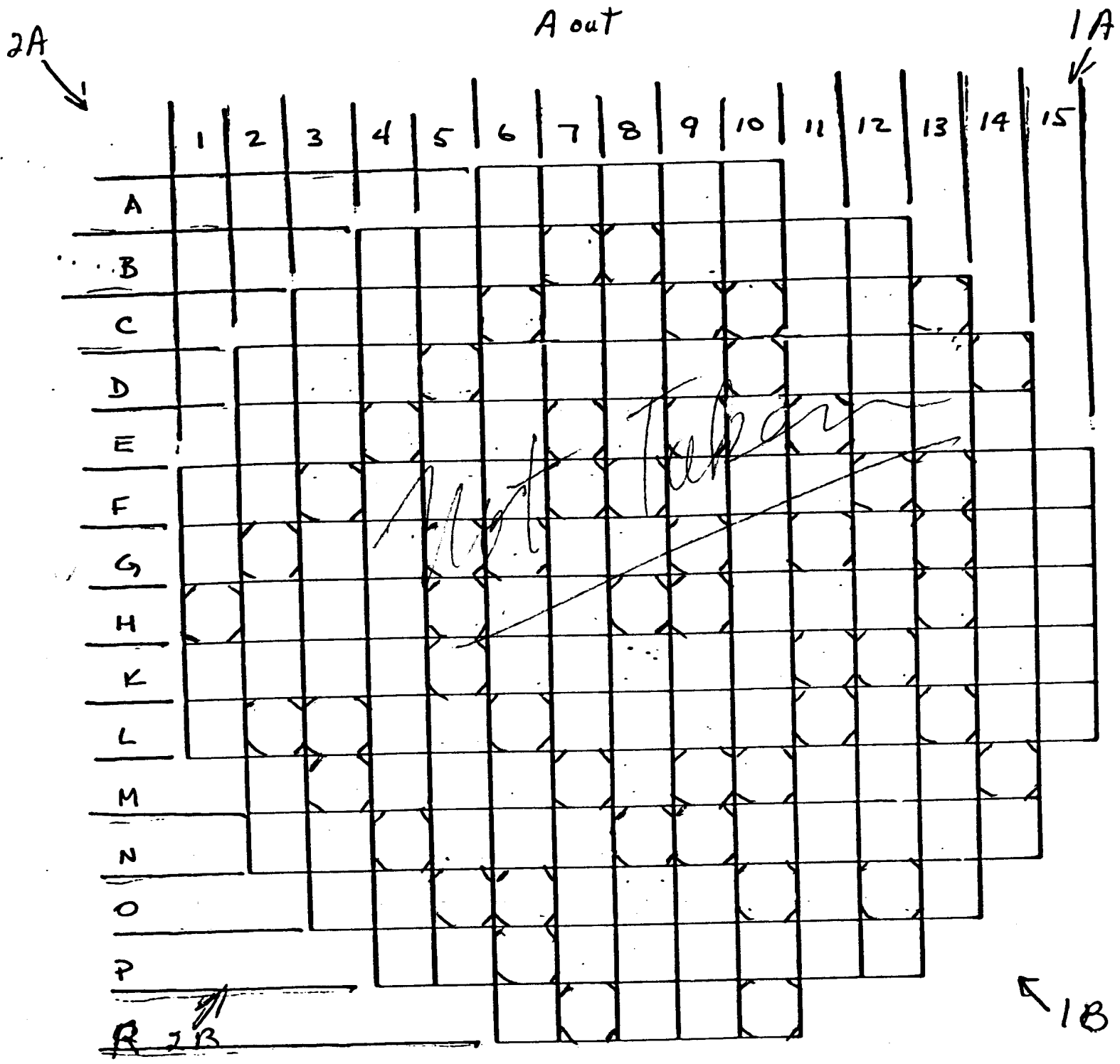
C, R +1.3

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Date 3/30/79

Time 1315

Press. Pressure 1030

TA inlet 280

TB inlet 280

T pressure 554

L pressurizer 236

Press SGA 33

Press SGB 27

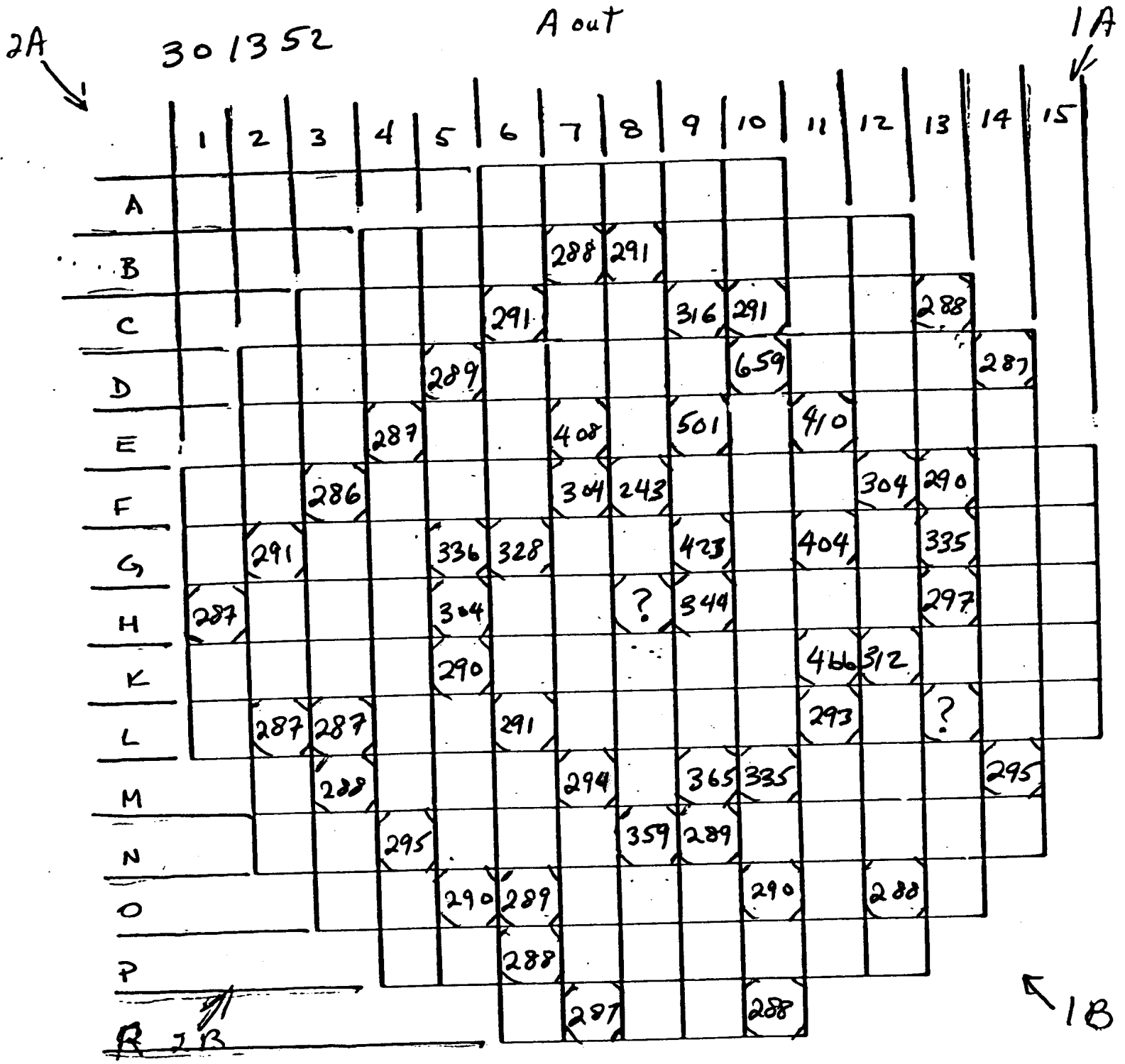
Letdown Flow

CPR = 0.6

LOCATION OF FUEL ASSEMBLIES CONTAINING
BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2



Date 3/30/79
 Time 1420 Khr

B out

Press. Pressure 1009 psi

ORIGINAL COPY

TA inlet 279

TB inlet 278

T pressure 551

L pressurizer 213"

Press SGA 32

Press SGB 26

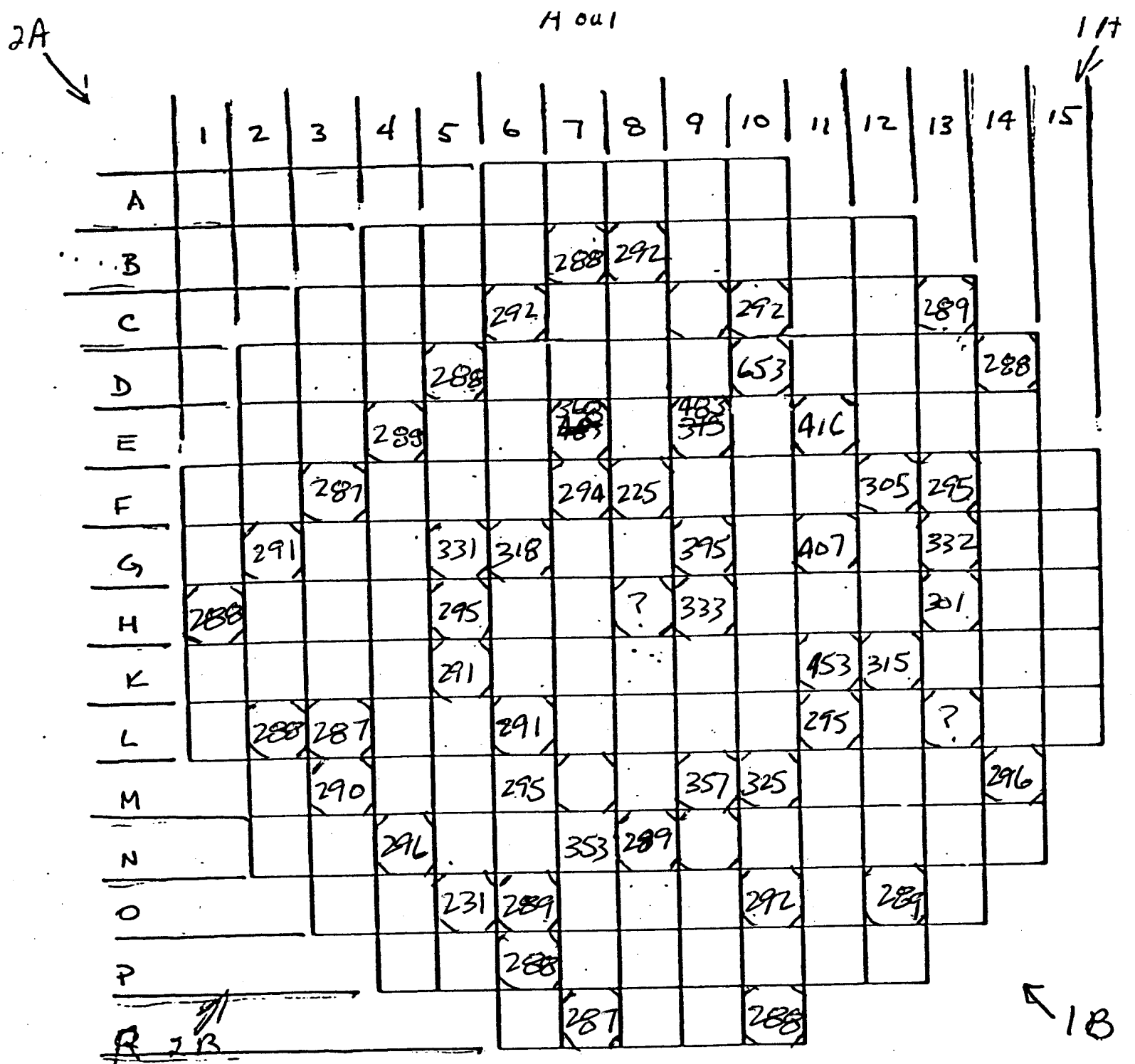
Letdown Flow adequate

CDR -.6/hr

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2



Date 3/30/79
 Time 5:00 1700

B out

Press. Pressure 1051

A inlet 281
 B inlet 280

Pressure 556

Pressurizer 215

Press SGA 33

Press SGB 28

Shutdown Flow Water

Heat Up = .6

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

2A ↘

A out

1A ↙

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A															
B							287	291							
C						291			315	291			288		
D					288					639				287	
E				287			364	176		412					
F			288				289	274		410	303				
G	287	291			332	316			390				329		
H	287				293			?	321				302		
K											450	315			
L		287	286			290					293		?		
M			283				293		309	320					296
N				296				351	288			288			
O					289	282				291		288			
P						287									
R							287			288					

↖ 1B

Date 3/30/79

B out

Time 6:25 1876

Press. Pressure 1021

TA inlet 280

TB inlet 279

T pressure 553

L pressurizer 216

Press SGA 32

Press SGB 27

Letdown Flow 12

LOCATION OF FUEL ASSEMBLIES CONTAINING
BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2

2A ↘

A out

1A ↘

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A								290							
B							287								
C						290			315	290			288		
D					287					591				287	
E				280			361		467		408				
F			285				290	213				301	283		
G		289			330	314			385	289	413		2331 531		
H	286				293			?	318				299		
K					289						453	319			
L		287	286								294		?		
M			291				293		349	321					283
N				295				347	288						
O					292	287 289				290		287			
P						286									
R 1B							286			287					

↖ 1B

Date 3-30-79

B out

Time 8:30 *1230 hours*

Press. Pressure 1040

TA inlet 279

TB inlet 279

T pressure 556

L Pressurizer 216

Press SGA 31

Press SGB 26

Letdown Flow meter

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2

2A ↘

A out

1A ↙

Time - 0156

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A															
B							288	291							
C						292			312	292					
D					290					541					287
E				288			367		484		?				
F			287				295	341				301	298		
G					334	328			398		420		329		
H	288				296			837	328				307		
K					291						447	326			
L		290	288			291					300		2		
M			294				294		351	323					295
N				298				346	291						
O					292	289				292		289			
P						287									
R								288			289				

1B ↙

Date 3/31/79

B out

Time 010030

Press. Pressure 1020

TA inlet 281

TB inlet 281

T pressure 554
287

L Pressurizer 215

Press SGA 33

Press SGB 28

Letdown Flow 0

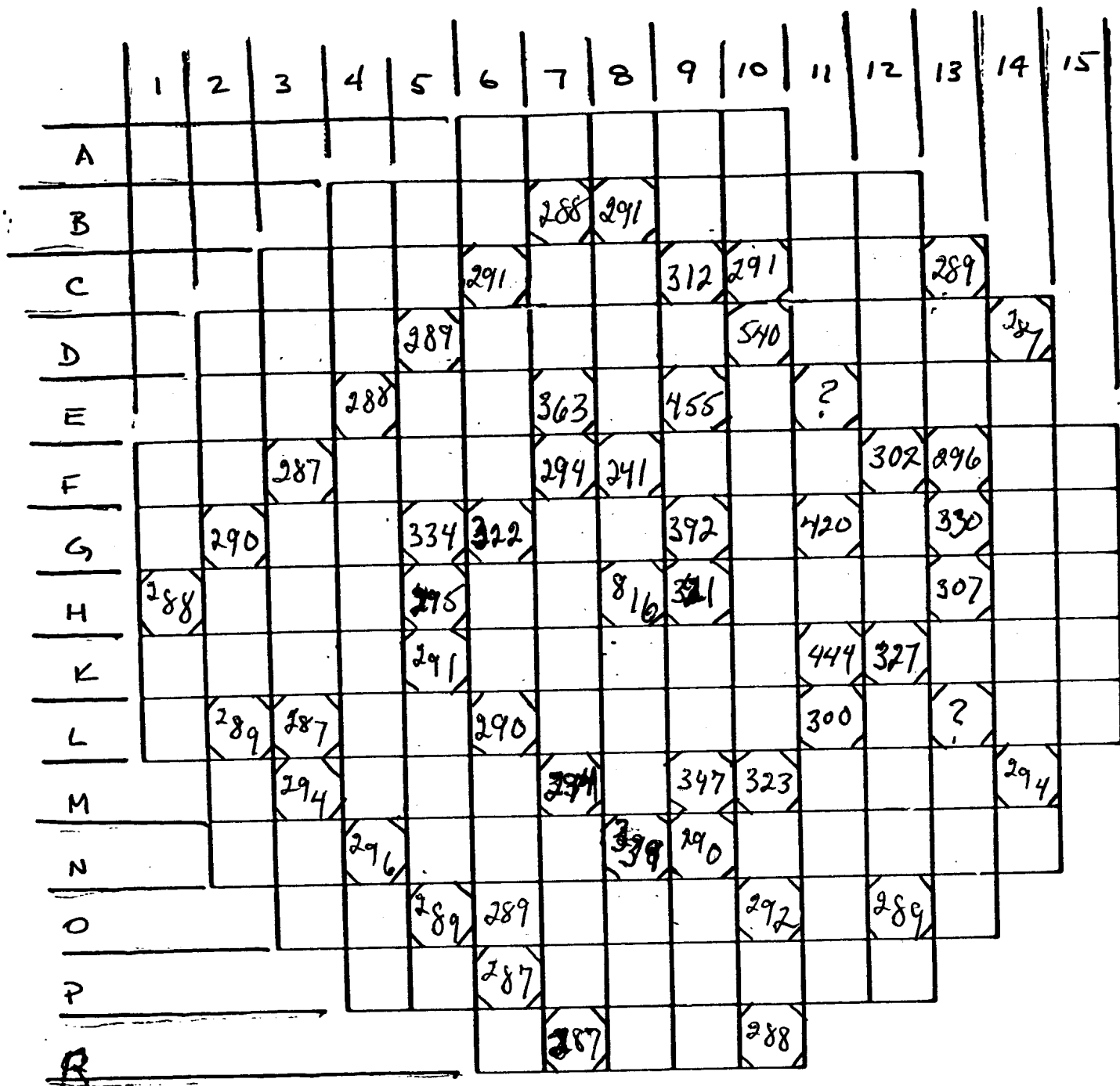
CDR-02 Positive reactivity (actually cooling)

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Date 3/31/79
 Time 0250
 Press. Pressure 1017
 T_A inlet 281
 T_B inlet 280
 T pressure 554
 L pressurizer 217
 Press SGA 32
 Press SGB 28
 Letdown Flow 0
 Cooldown Rate 0.6

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 4.3

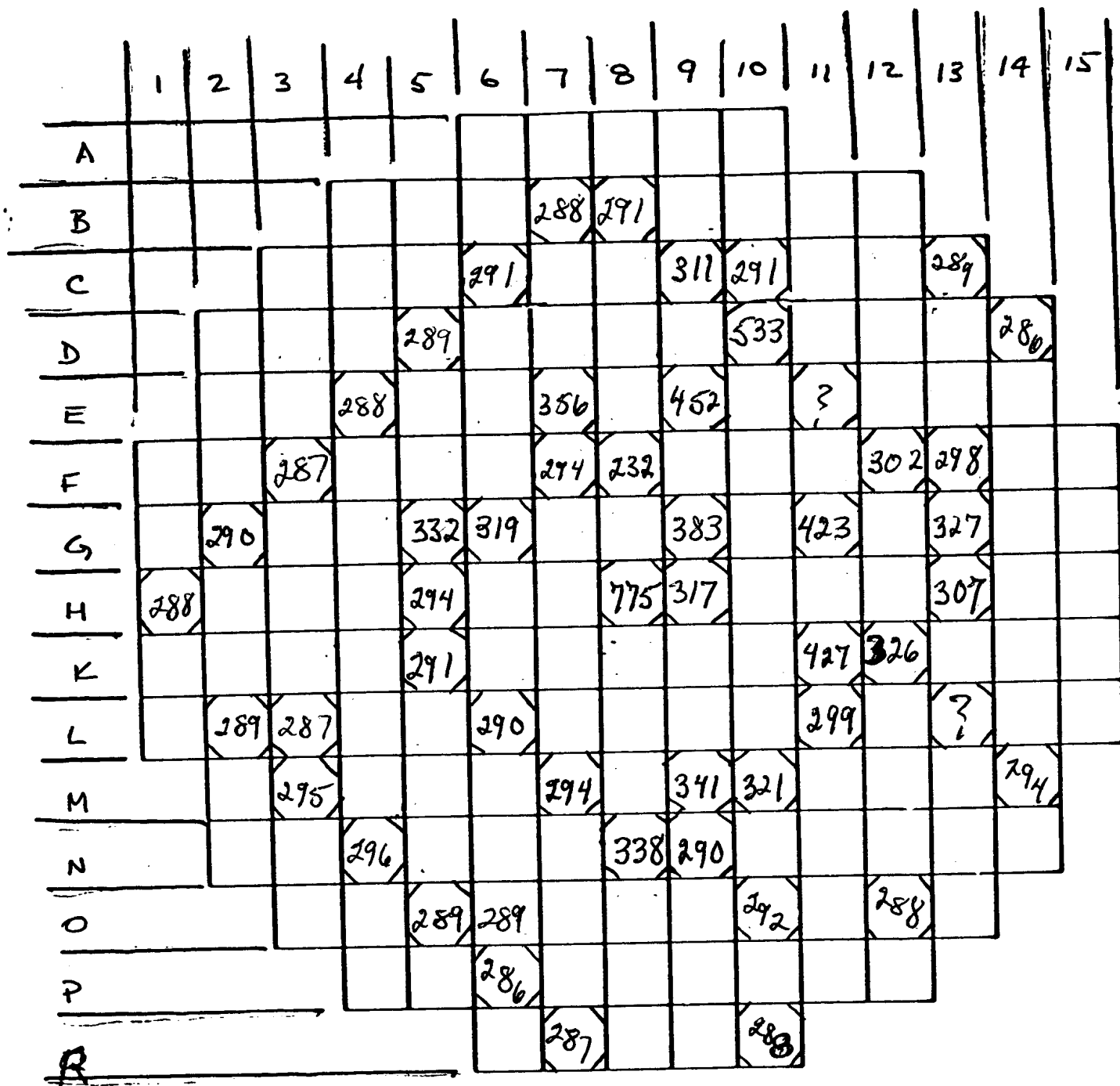
Time 0346

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A															
B							289	292							
C						292			311	292			290		
D					289					533					287
E				288			366		460		?				
F			287				295	290				304	297		
G		291			334	321			395		422		329		
H	289				295			798	321					310	
K					291						441	328			
L		290	288			291					301		?		
M			297				294		343	323					296
N				296				339	290						
O					290	289				293		289			
P						287									
R							288			289					

Date 3/31/79
 Time 0336
 Press. Pressure 1018
 TA inlet 281
 TB inlet 281
 T pressure 554
 L Pressurizer 216
 Press SGA 33
 Press SGB 28
 Letdown Flow 0
 Cooldown Rate 0.2

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT

 FIGURE 4.3



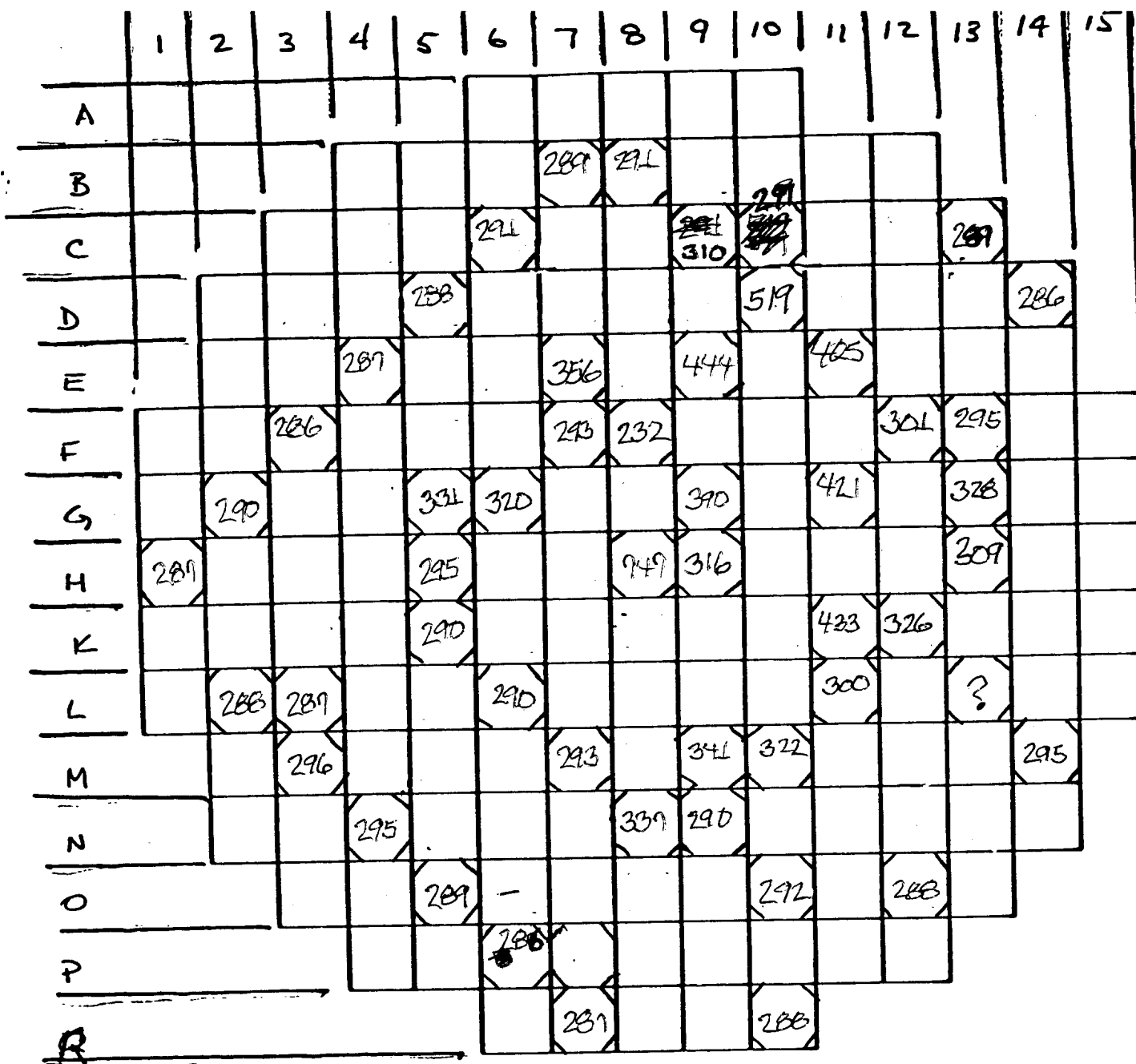
Date 3/31/79
 Time 0435
 Press. Pressure 1081
 TA inlet 280
 TB inlet 281
 T pressure ~~216~~ 554
 L Pressurizer 216
 Press SGA 32
 Press SGB 28
 Letdown Flow 0
 Cooldown Rate 0.0

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 4.3



Date 3/31/79

Time 0533

Press. Pressure 1020

TA inlet 280

TB inlet 280 554

T pressure 554

L pressurizer 216

Press SGA 31

Press SGB 29

Letdown Flow 0

Cooldown Rate -0.6

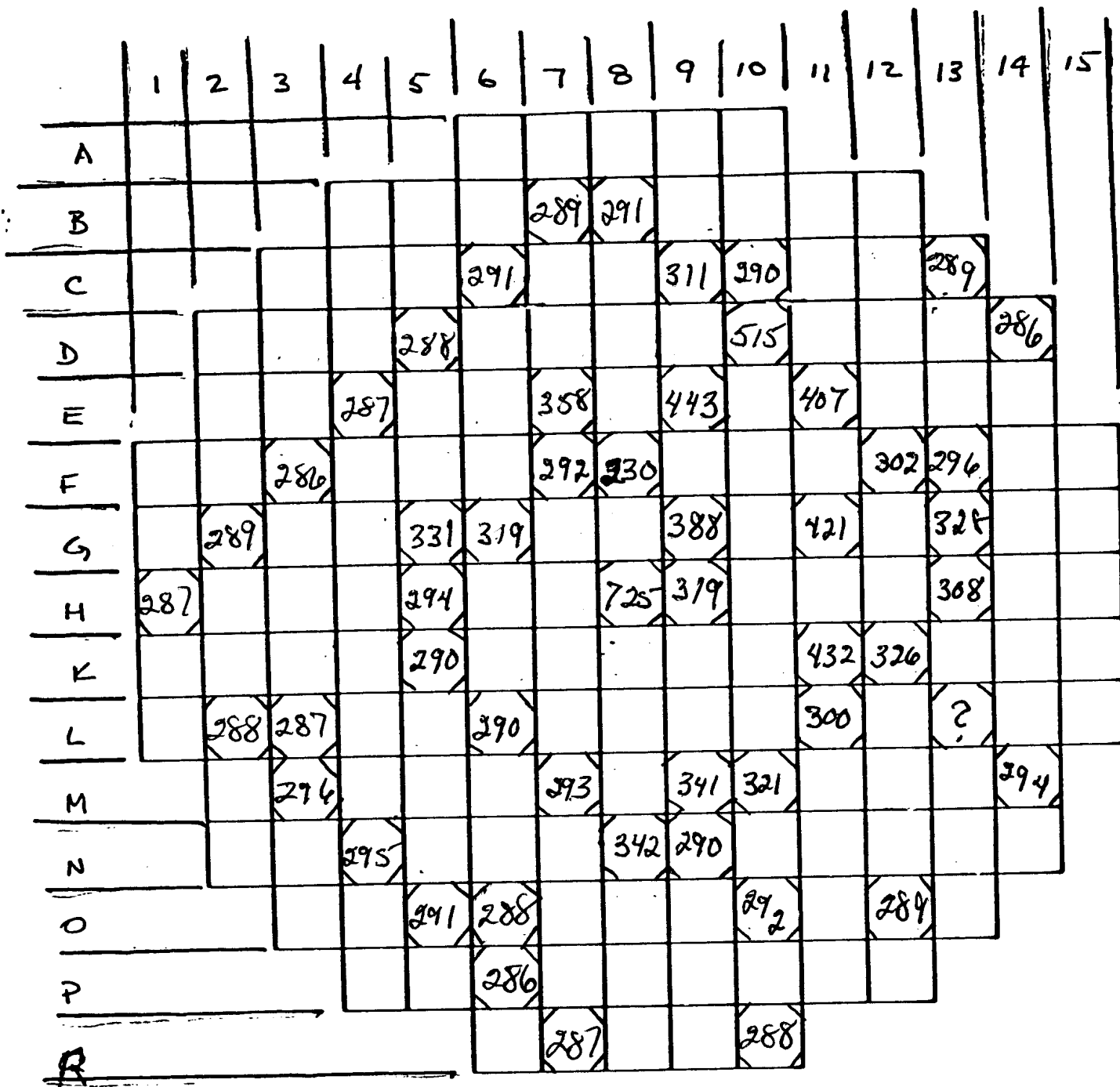
Mu Tank Press 34

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43-



Date 3/31/79

Time 0630

Press. Pressure 1013

TA inlet 280

TB inlet 280

T pressure 553

L pressurizer 217

Press SGA 32

Press SGB 27

Letdown Flow 0

Cooldown Rate 4.5

- Makeup Tank Pressure 28

Decay Tank A " _____ } every 4 hrs
 " B " _____ }

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

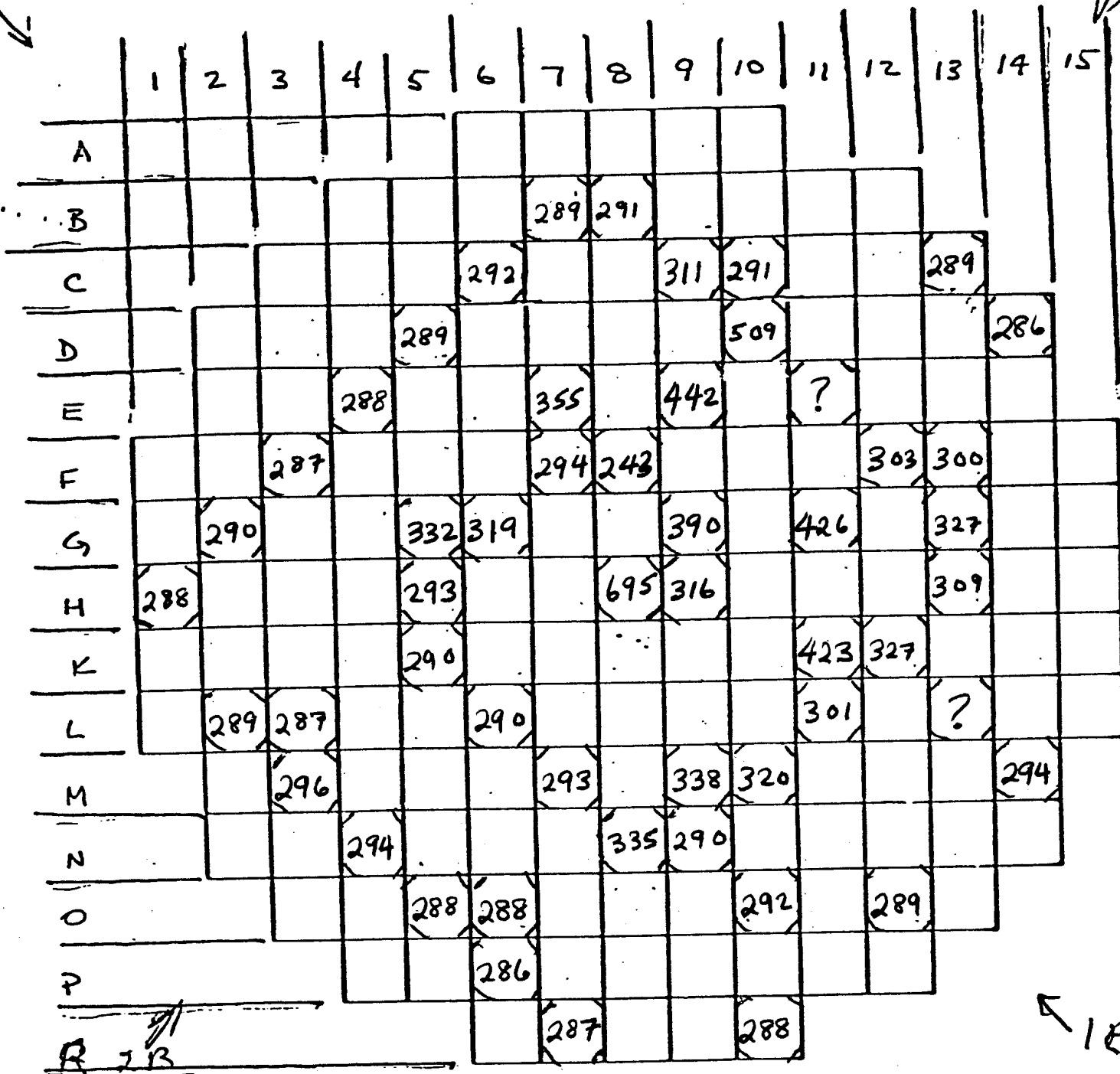
THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43-

A out

117



Date 3/31/79

B out

Time 0730

Press. Pressure 1023 psig

A inlet 280 F

B inlet 280 F

Pressure 554 F

Pressurizer 216"

Press SGA 31

Press SGB 27

Letdown Flow 0

CDR - 0.2 F/hr

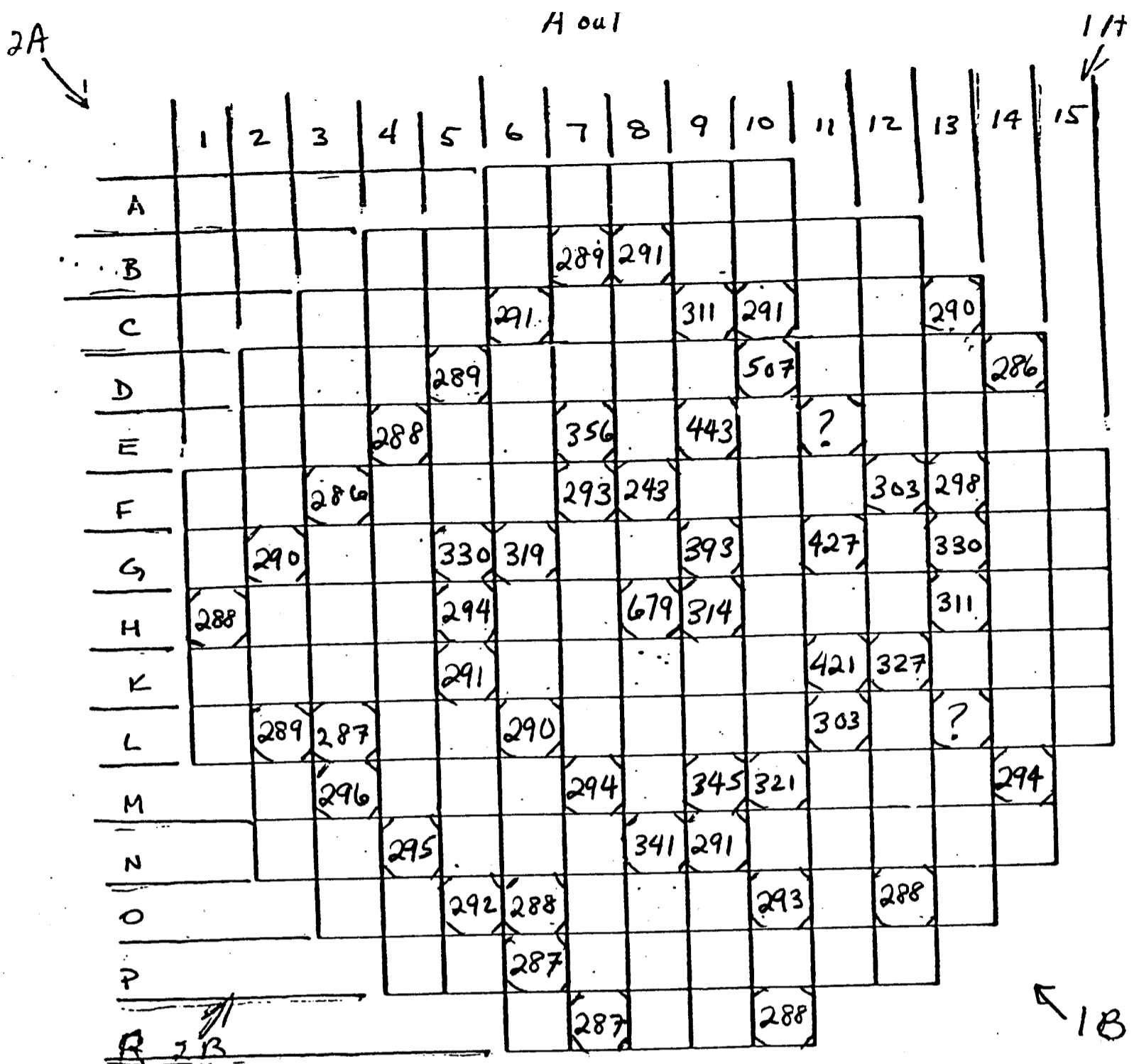
MUTK pres 22 psig

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Date 3/31/79

Time 0835

Press. 986 psig

A inlet 280

B inlet 280

Pressure 549 F

Pressurizer 120 "Should be v 215" @ 0920

Press SGA 32

Press SGB 27

Leakdown Flow 15 gpm all night of 3/30-31 indicator read zero.

B out

caution ⌋ T/C readings suspect
due to low resistance to ground

1 K Ω measured 3/30/79
normal previous reading 10¹⁰ K Ω

LOCATION OF FUEL ASSEMBLIES CONTAINING
BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



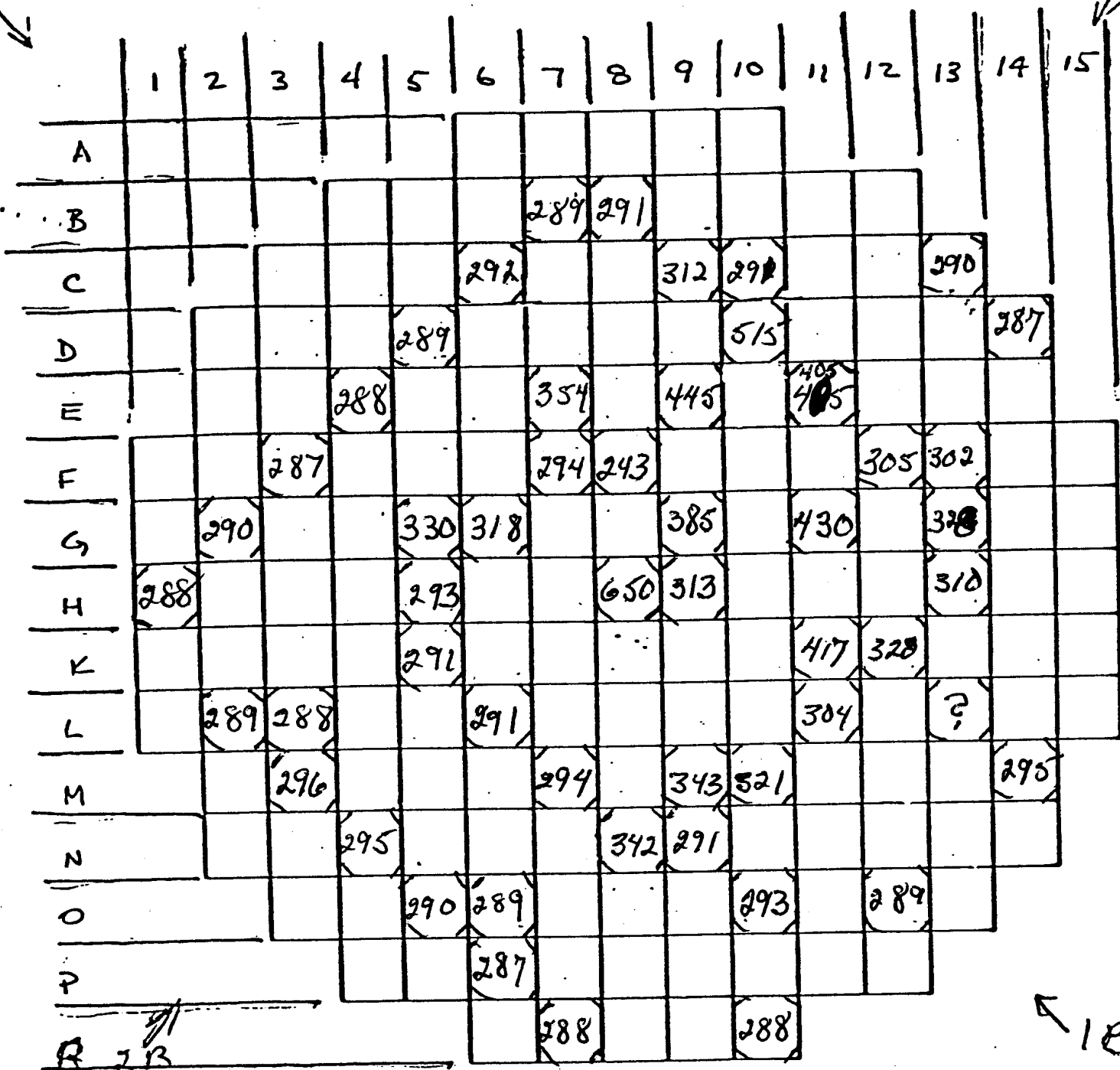
FIGURE 43-2

CDR - 1.3 F/hr

MUTIC pres 19 psig

A out

117



Date 3/31/79

B out

Time 0942

Press. Pressure 975

A inlet 281

B inlet 280

Pressure 548

Pressurizer 206

Press SGA 32

Press SGB 27

Letdown Flow 10-15 gpm Indicated '0'

calculated by operating staff

COR +0.4

MU Tank P -16 psi

Decay Press -80 psi

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

2A

111

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A															
B							289	291							
C						291			311	290			289		
D					290					573				286	
E				287			351	445			407				
F			287				294	243				305	298		
G		290			329	319			388		428		329		
H	287				293			611	309				311		
K					295						418	329			
L		288	287			290					304		?		
M			294				294		346	320					295
N				295				336	290						
O					290	288				293		288			
P						285									
R							287			288					

Date 3/31/79

B out

Time 1045

Pressure 960

T_A inlet 280

T_B inlet 280

T_{pressure} 547

L_{pressurizer} 196

Press SGA 31

Press SGB 27

Letdown Flow 10-15 gpm calculated
 cold down rate to 8
 M_U Tank Press - 1.7 psi
 Decay Press 80

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43-

2A ↙

A out

1A ↙

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A								296							
B							292								
C						297			314	296 298			294		
D					295					589				291	
E				292			361		467		261				
F			292				294	232				310	305		
G		295			336	315			378		419		333		
H	292				298			894	320				306		
K					296						444	327			
L		294	292			295					303		?		
M			297				299		347	325					300
N				300					348	294					
O					295	293				296		293			
P						292									
R 2B								292			293				

↙ 1B

Date ^{31?} 3-30-79
 Time 11:00 PM

B out

Press. Pressure 1028

TA inlet 285

TB inlet 284

T pressure 554

L pressurizer 215

Press SGA 36

Press SGB 31

Letdown Flow irrotic

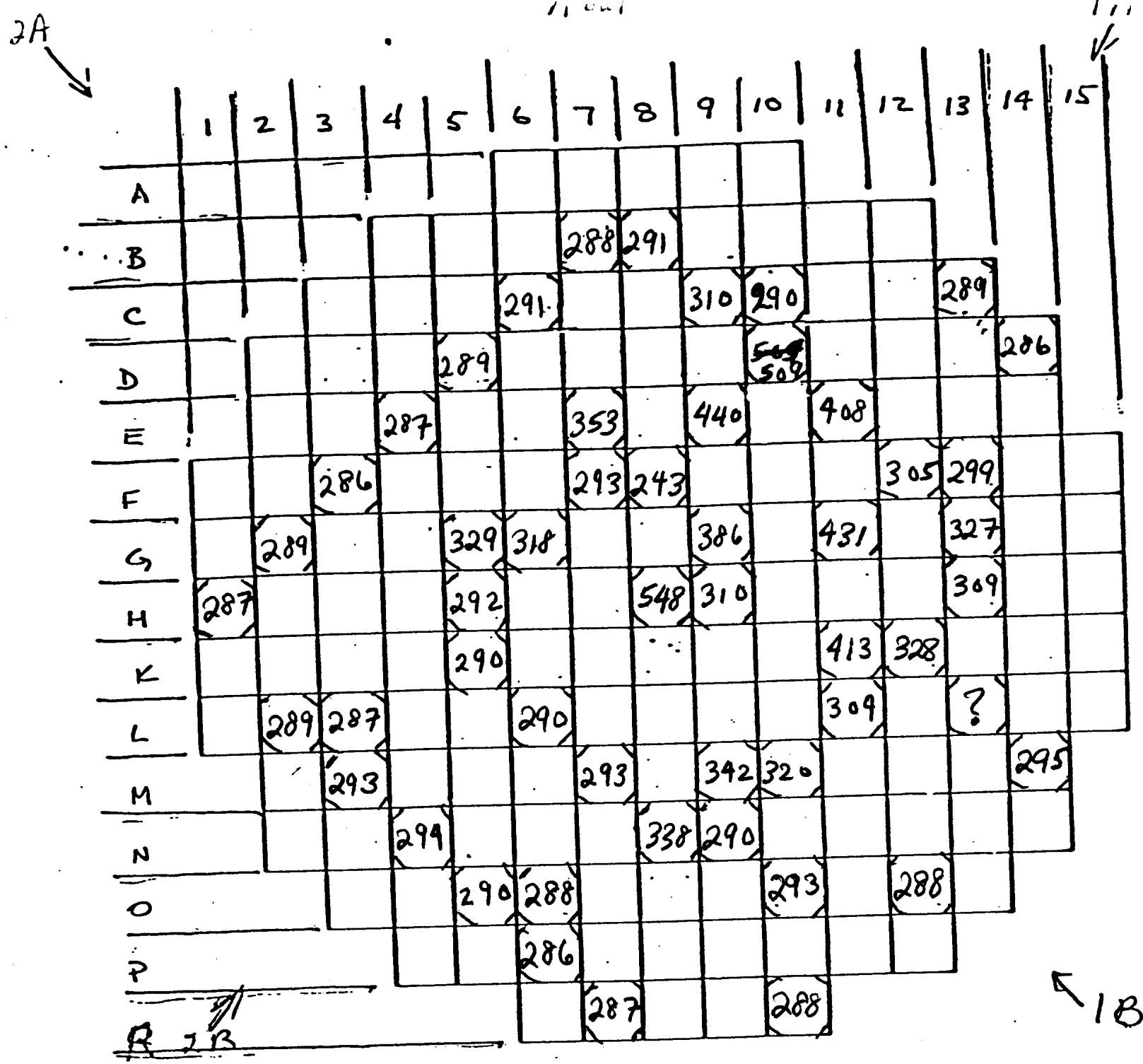
-2.4 Cooldown Rate

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2



Date 3/31/79 B out

Time 1147

Press. Pressure 1010 psig

T_A inlet 280 F

T_B inlet 280 F

T_{pressure} 550 F

L_{pressurizer} 214"

Press SGA 31 psig

Press SGB 27 psig

Letdown Flow calc. 10-15 gpm

Cool-down Rate - .4 °F/hr

MU Tank Press 18 psig

Decay Tank Press 80 psig

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 2




  

FIGURE 43-

2A ↘

A out

1A ↙

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A															
B							288	292							
C						293			315	292			290		
D					290					551	?				288
E				289			361		462		?				
F			288				296	240				304	303		
G		291			335	321			384		426		327		
H	289				296			862	319				305		
K					292						436	324			
L		290	288			292					299		?		
M			294				295		346	321					296
N					297			347 341	291						
O					292	292				294		290			
P						289									
R							289			290					

↙ 1B

Date 3/31/79

B out

Time 12:40 AM

Press. Pressure 1025

TA inlet 284

TB inlet 281

T pressure 554

L Pressurizer 215

Press SGA 33

Press SGB 29

Letdown Flow inote

HUR = .6 CDR = -.6

LOCATION OF FUEL ASSEMBLIES CONTAINING
BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

2A ↘

111 ↙

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A															
B							289	292							
C						291			311	291			289		
D					289					496					287
E				288			352		435		411				
F			287				291	240				306	298		
G		290			330	317			380		430		330		
H	288				293			543	311					312	
K					291						417	331			
L		289	287			291					306		?		
M			273				294		340	322					295
N				295				340	290						
O					290	288				293		289			
P						286									
R								287		288					

↖ 1B

Date 3/31/79
 Time 1250
 Press. Pressure 1011 psig
 T_A inlet 281 F
 T_B inlet 280 F
 T_{pressure} 554 F
 L_{pressurizer} 191 in
 Press SGA 31 psig
 Press SGB 28 psig
 Letdown Flow 10-15 gpm

B out


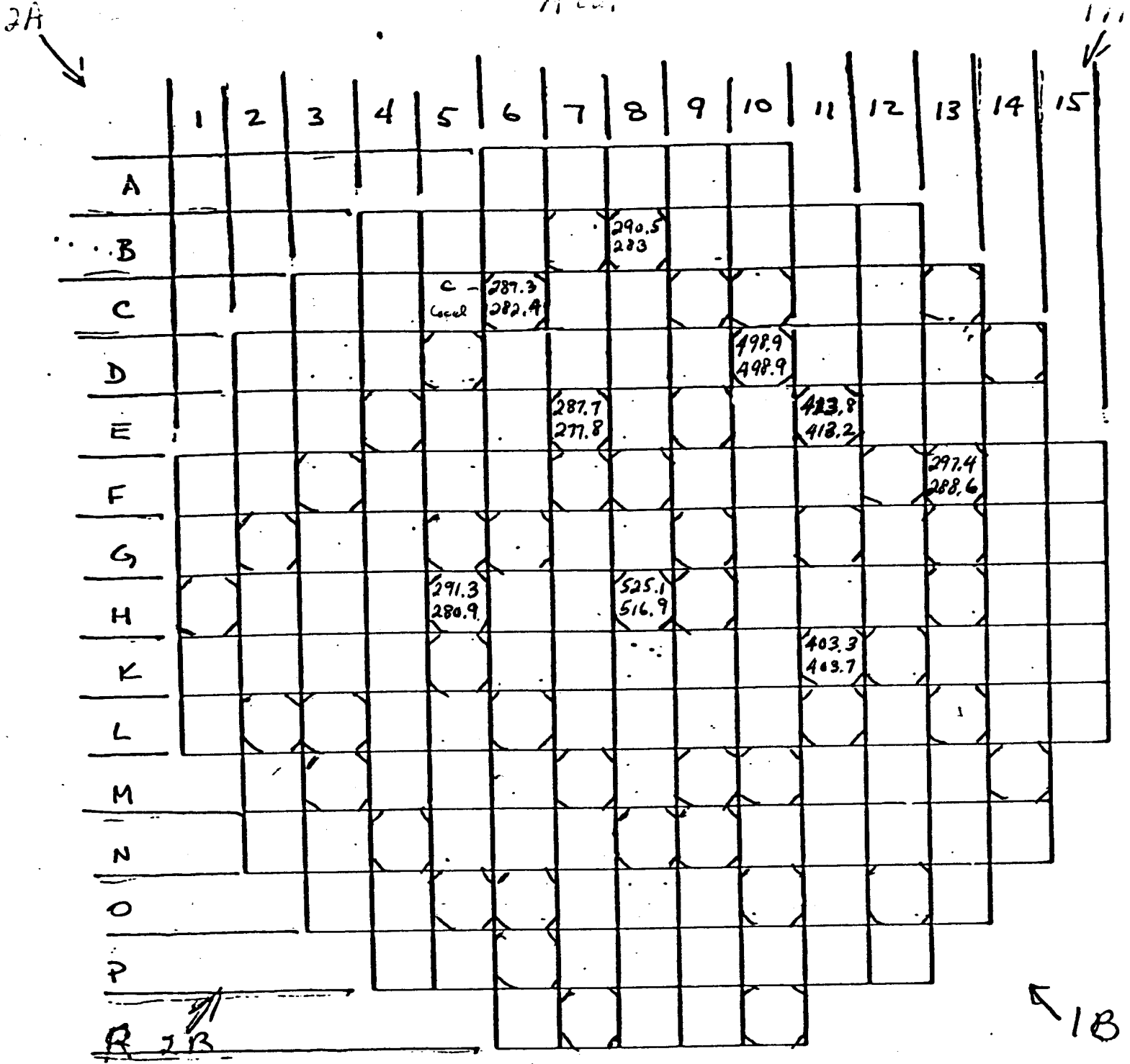
LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT


FIGURE 43-

CDR = 0

Makeup tank press = 20 psig
 Gas decay tank = 80 psig



Date 3/31/79
 Time 1410
 Press. Pressure 1019 psi
 T_A inlet 280 F
 T_B inlet 280 F
 T_{pressure} 552 F
 T_{pressurizer} 190"
 Press SGA 31
 Press SGB 27
 Letdown Flow estimated 10-15 gpm
 CDR 0.9 F/hr
 Makeup tank pressure 17
 Waste gas decay tank pressure Same 80, new reading expected
~ 2430

B out
~~Top # Local~~ COMPARISON
 Top # Computer
 Bottom # local potentiometer reading
 Source or type of error unknown


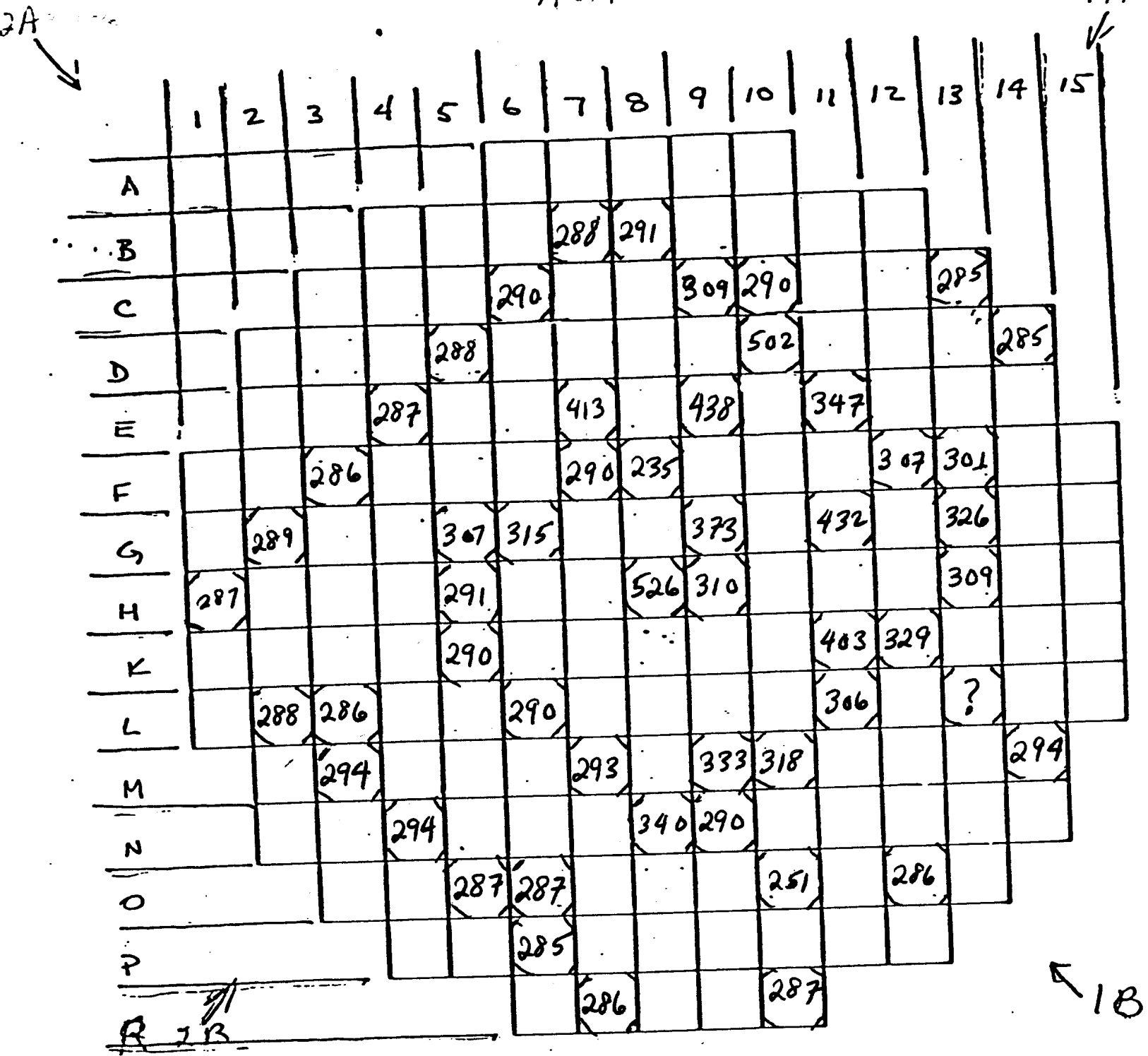
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2


FIGURE 43-2



Date 8/31
 Time 1411

B out

Press. _____
 Pressure _____
 A inlet _____
 B inlet _____
 T pressure _____
 L pressurizer _____
 Press SGA _____
 Press SGB _____
 Letdown Flow _____

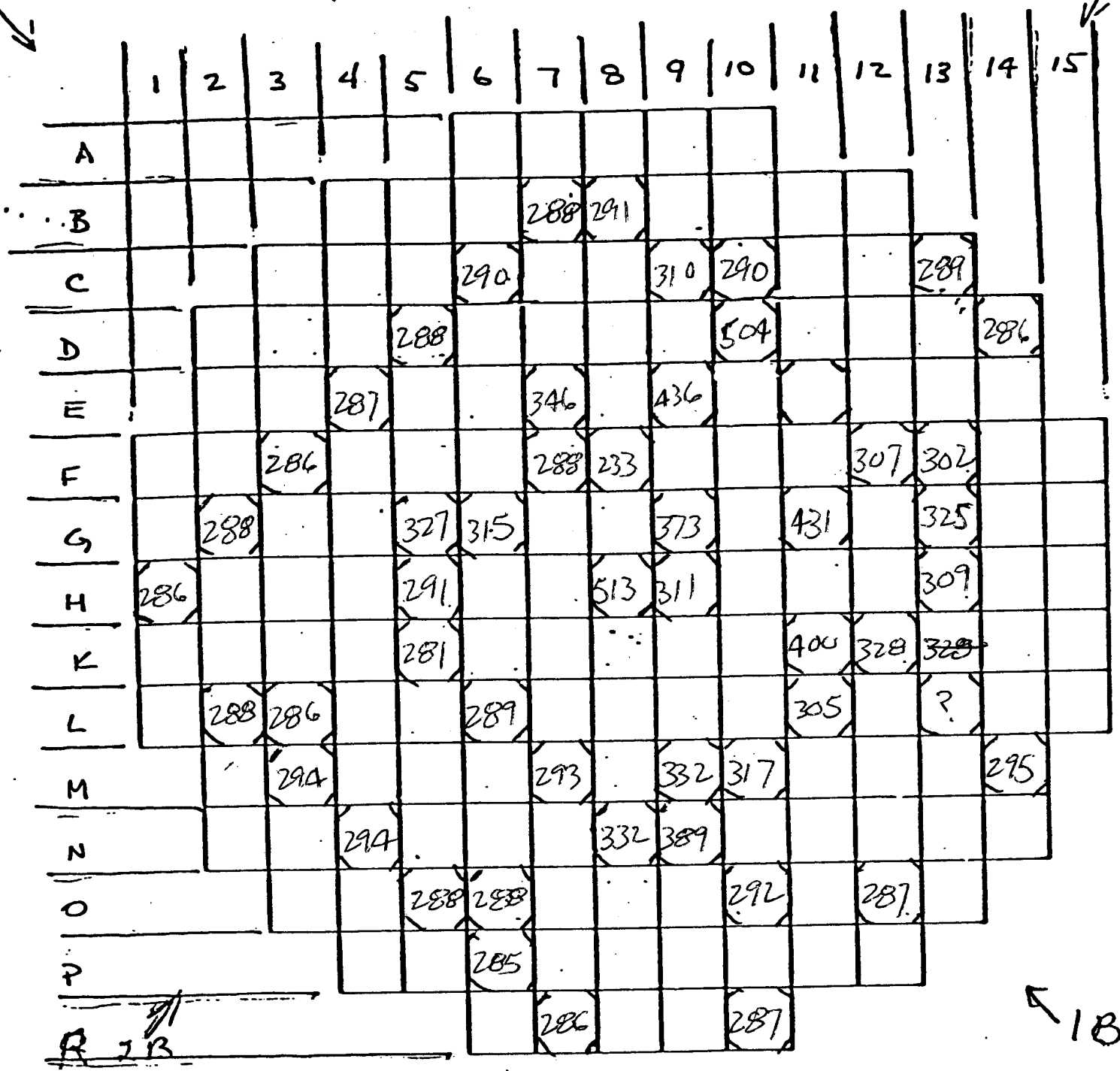
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

2A ↘

111 ↙



Date _____

B out

Time 1520

Pressure 1042

T_A inlet 280

T_B inlet 279

T_{pressure} 550

L_{pressurizer} 1.90

Press SGA 31

Press SGB 27

Le_{down} Flow 10-15 estimate
-0.9

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

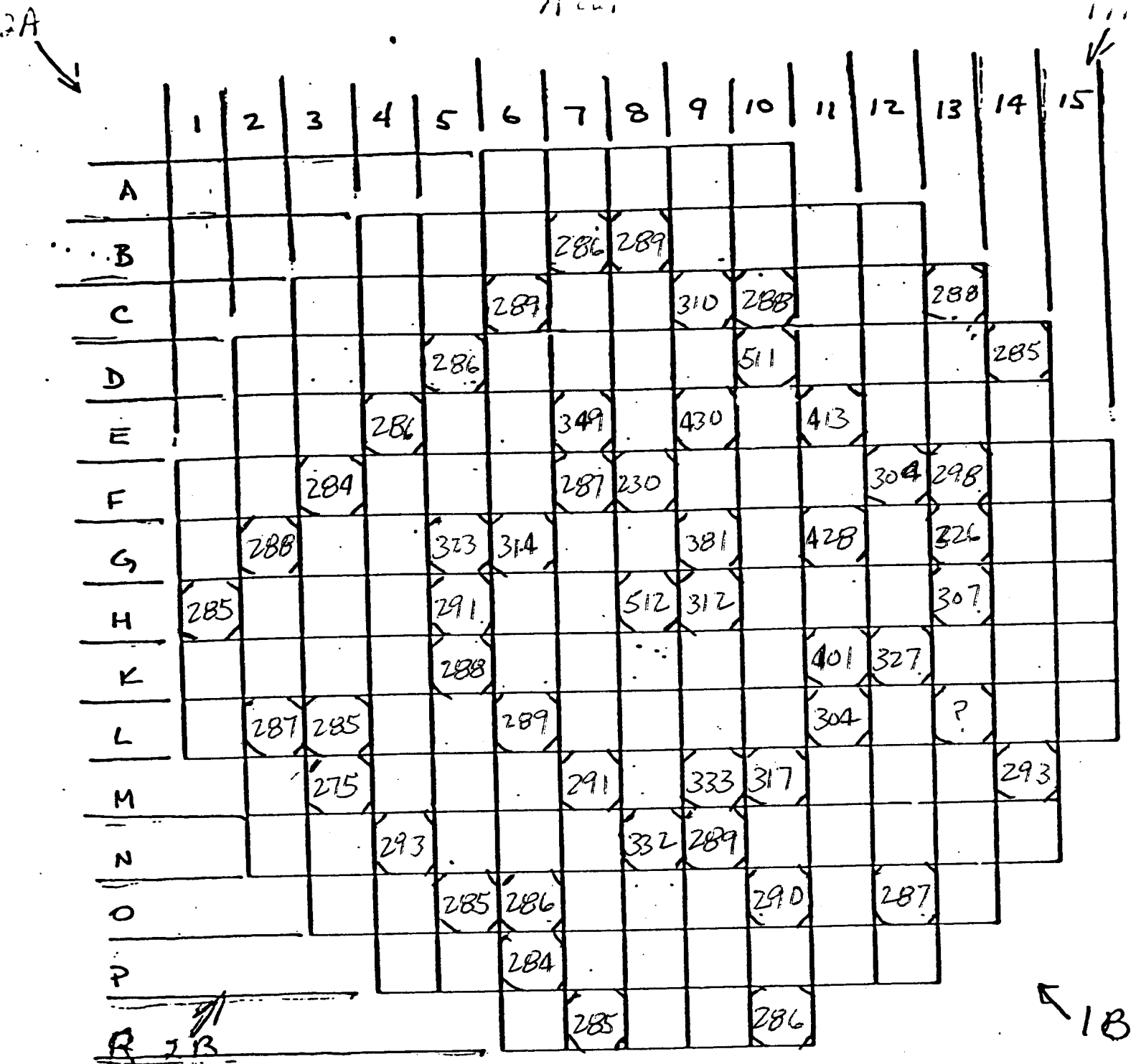
THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

MUT P 17#

G.D.T 80



Date ~~1630~~ 3/31/79

B out

Time 1630

Pressure 961

A inlet 278

B inlet 277

Pressure 546

Pressurizer 194

Press SGA 30

Press SGB 26

Letdown Flow 0-20

MUTP 16

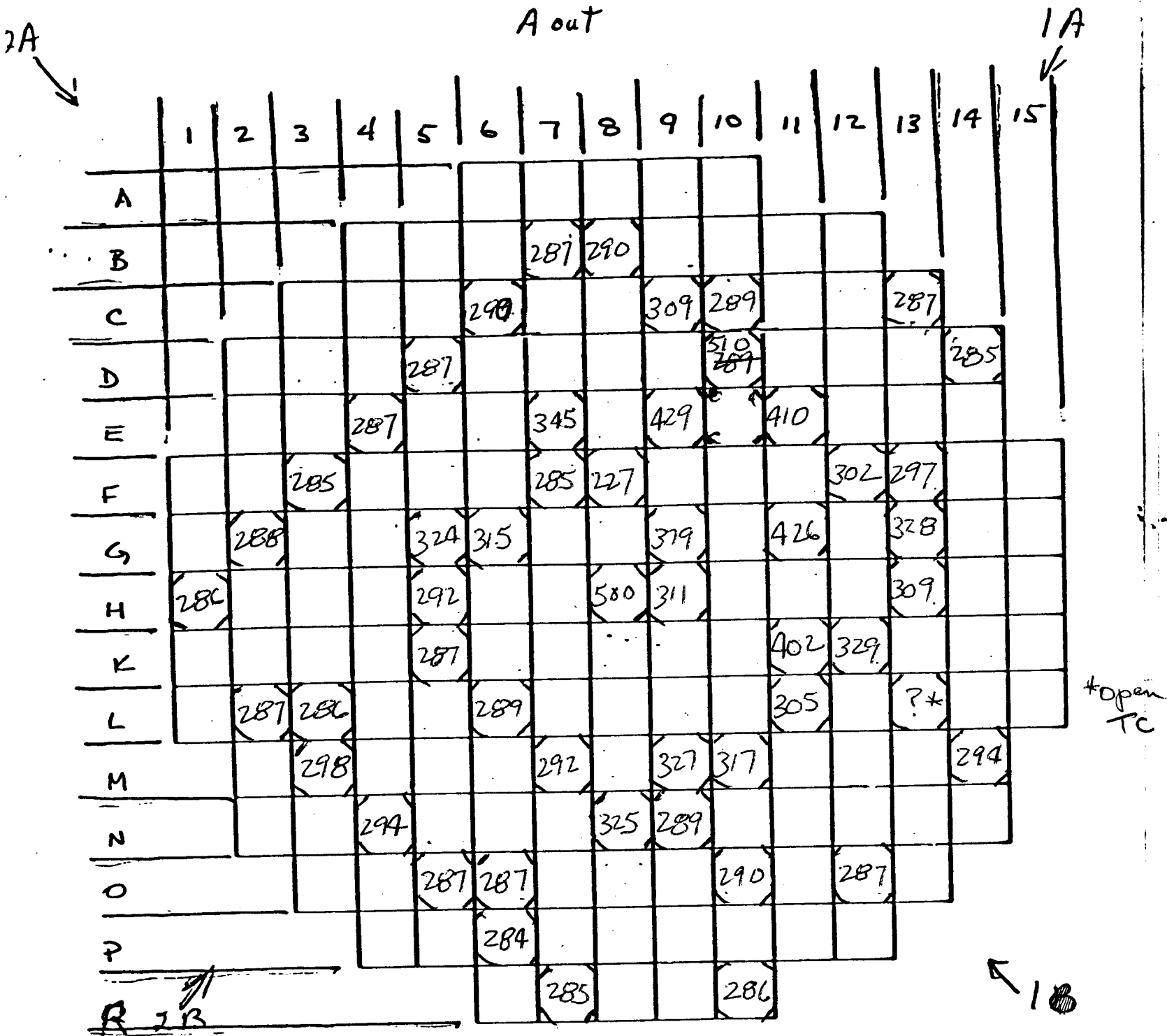
DGT Pres 80

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Date 3/31/79
 Time 1730
 core pressure 951
 inlet 279
 outlet 278
 temp pressure 545
 fuel pressurizer 20.1
 press SGA 31
 press SGB 26
 shutdown Flow 0-20

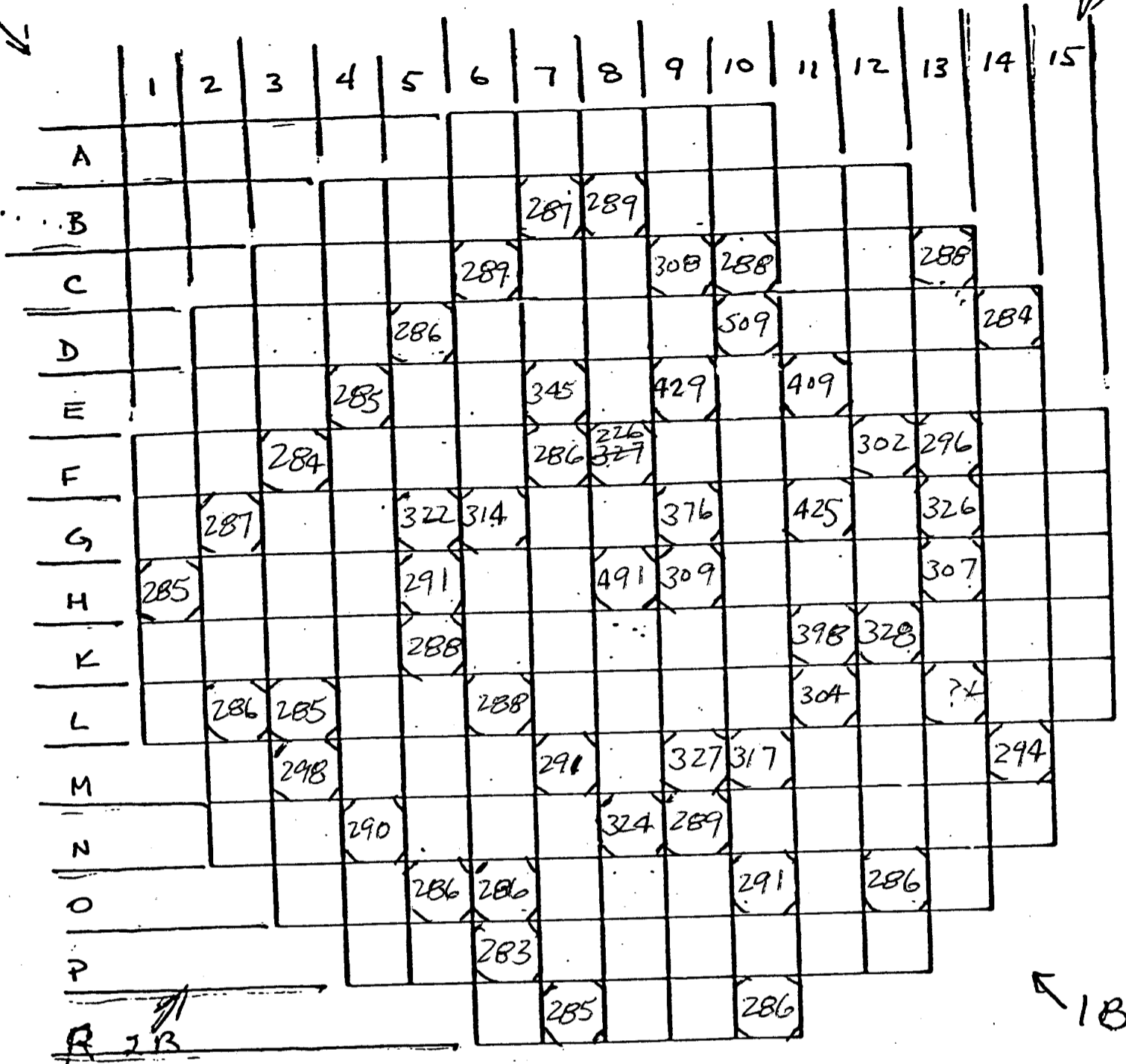
B out

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2

4
 m UT Pois - 6



Date 18 3/31/79

B out

* open TC

Time 1830

Press. Pressure 980

A inlet 278

B inlet 278

Pressure 549

Pressurizer 1.97

Press SGA 30

Press SGB 26

Letdown Flow 0-15

CDR - 1.4 - cooldown rate

MUT Press - 11

G.D.T. Press - 84

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2

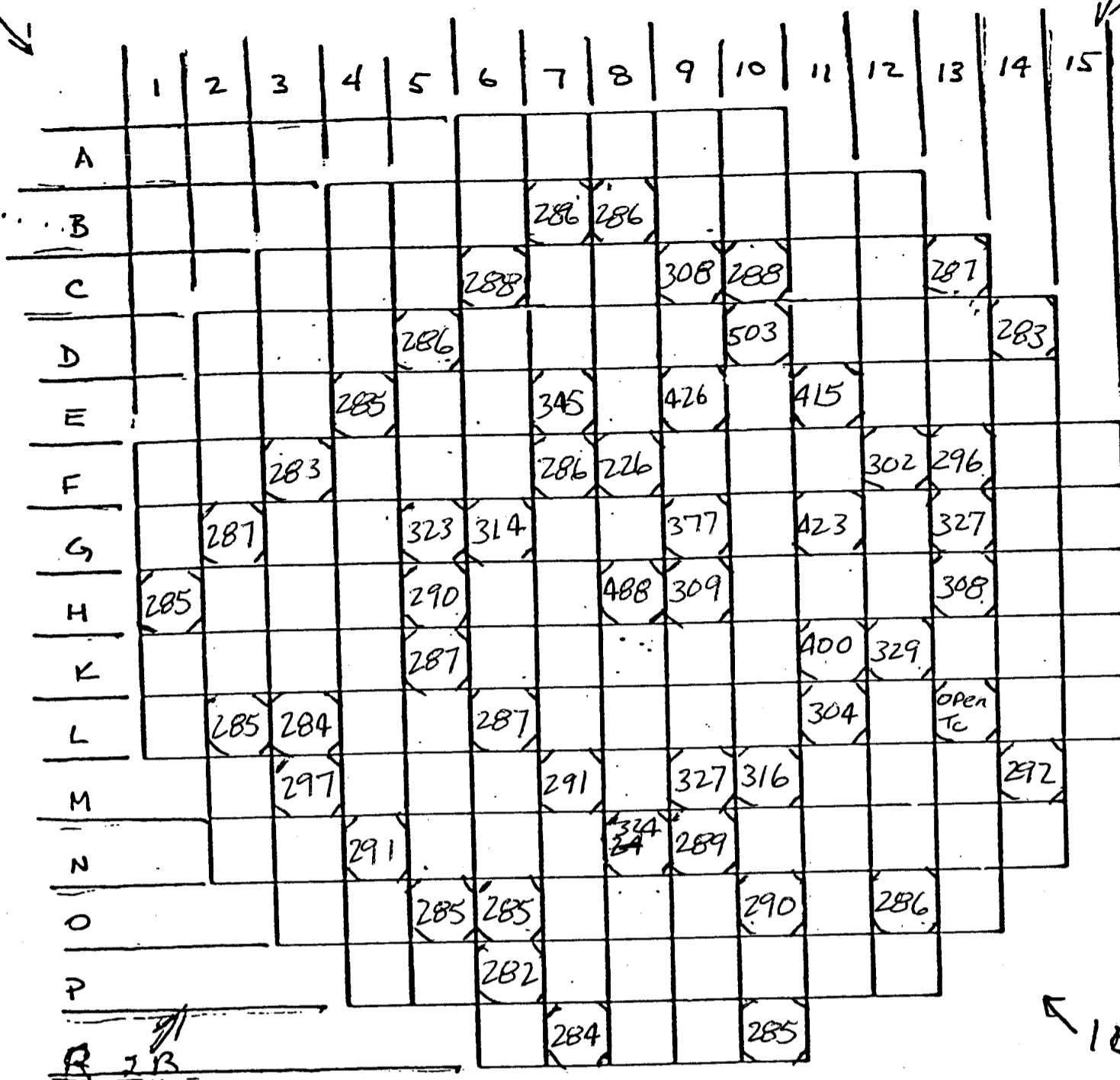


FIGURE 43-2

A out

1A

2A



Date 3/31/79

B out

Time 1940

Pressure 1020

A inlet 278

B inlet 278

Pressure 553

Pressurizer 8190

Press SGA 30

Press SGB 2726

Letdown Flow 0-20

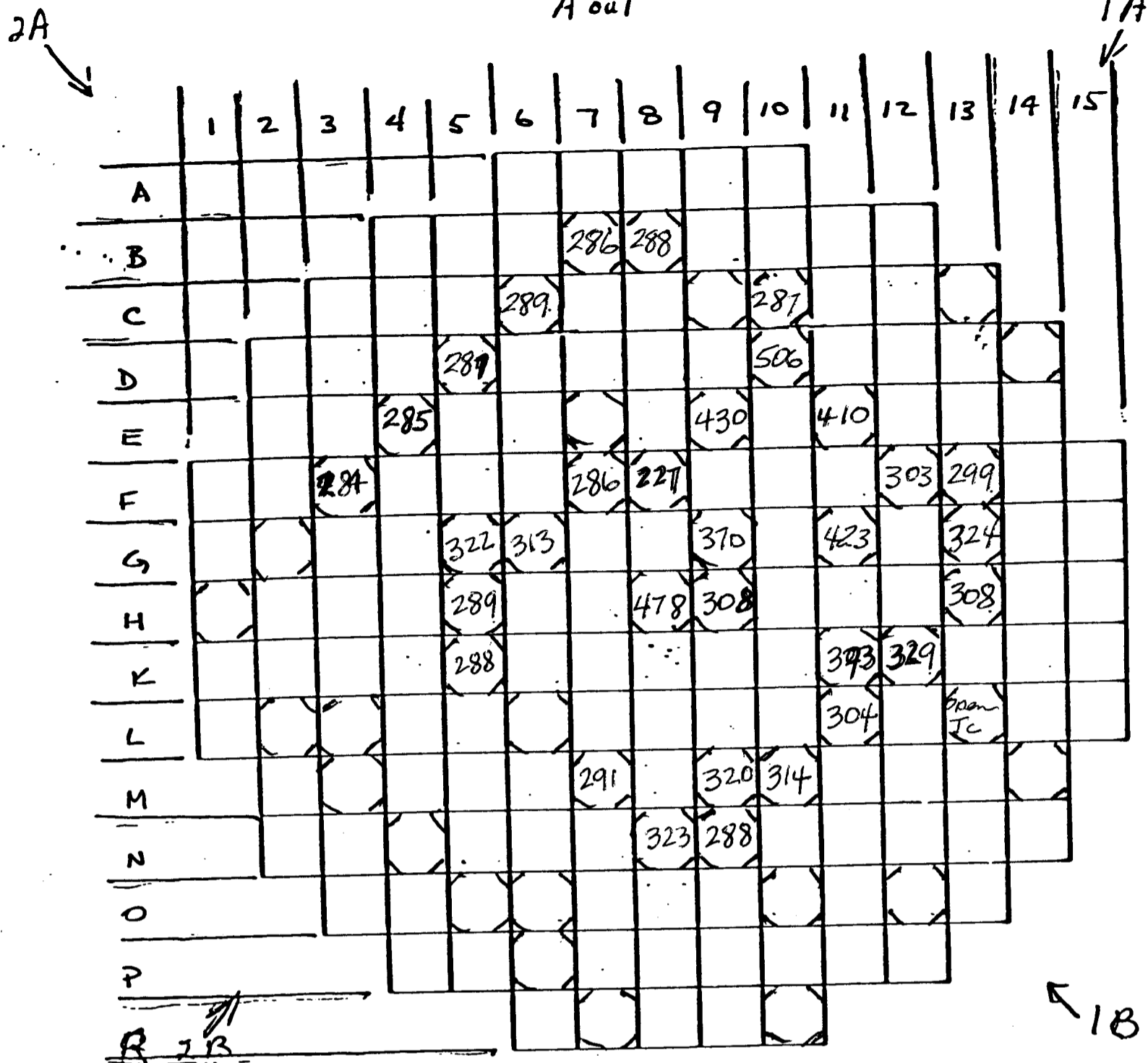
CBR. 12

MUT Perm 5

G D T P 8A

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2

FIGURE 43-2



Date 3-31-79
 Time ~~2115~~ 2035
 Press. Pressure 968
 T_A inlet 279
 T_B inlet 279
 T_{pressure} 546
 P_{pressurizer} 191
 Press SGA 30
 Press SGB 26
 Letdown Flow 0-20

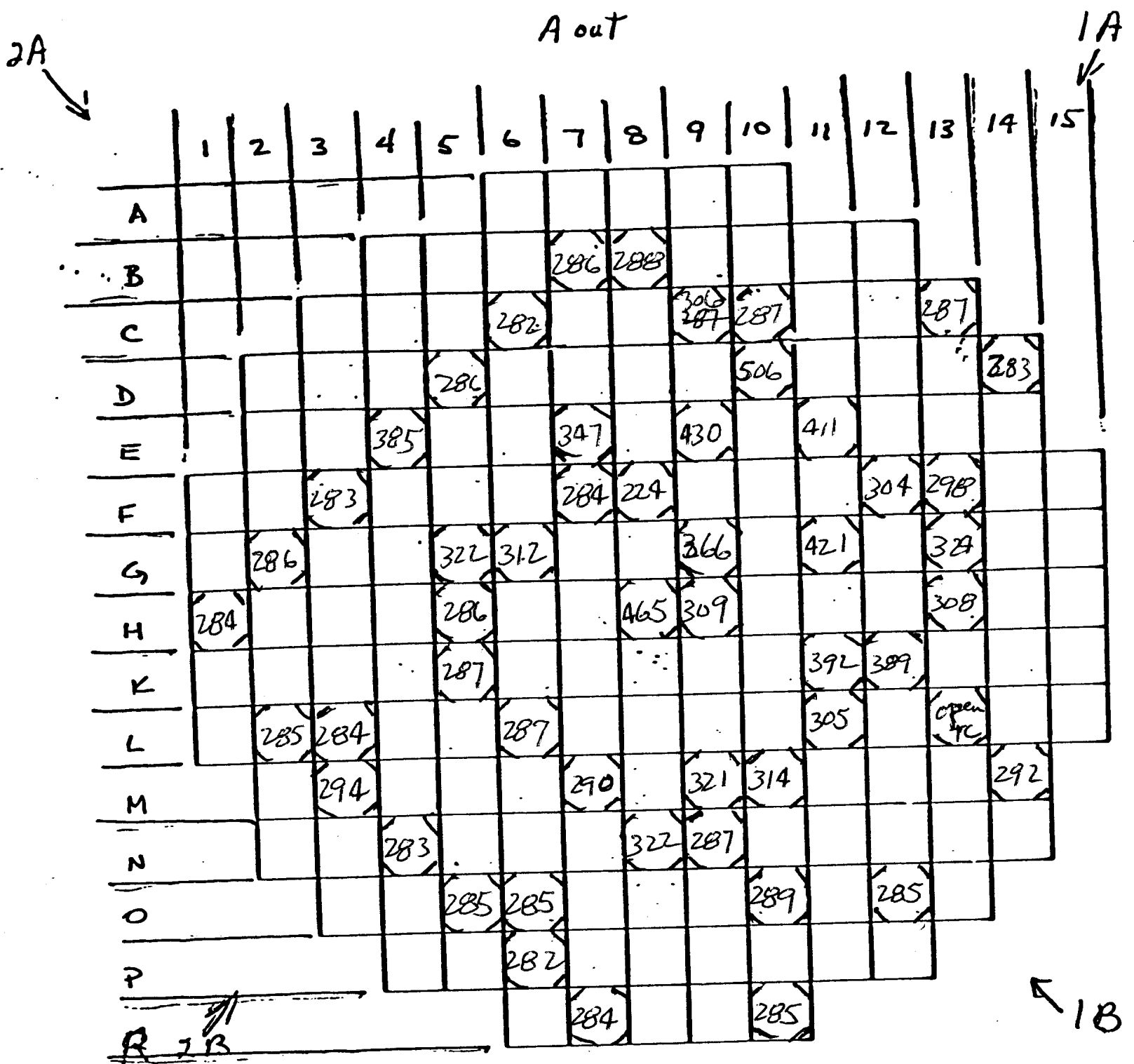
B out

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

CDR +.9
 MUT. 2
 GDT.P 8.2



Date 3/21/79

Time 2130

Press. Pressure 961

A inlet 278

B inlet 277

Pressure 546

Pressurizer 194

Press SGA 31

Press SGB 26

Letdown Flow 0-15

... 2

MUR 2

QDTP 82

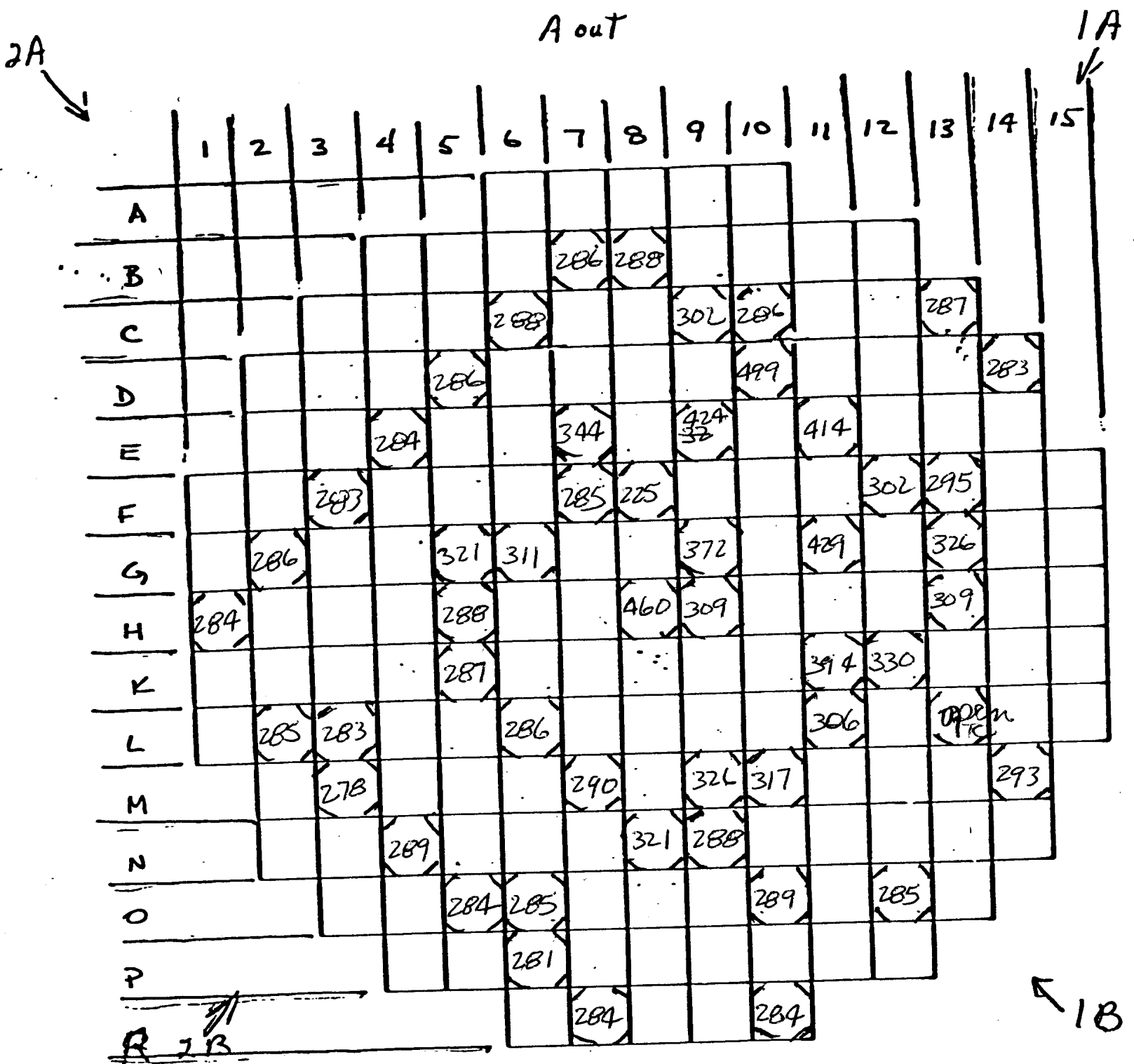
B out

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2



Date 3/31/79

Time 2230

Press. Pressure 975

A inlet 277

B inlet 277

Pressure 548

Pressurizer 1.96

Press SGA 29

Press SGB 25

Letdown Flow 0-20

CDR 2

MUTP 2

GDP- 82

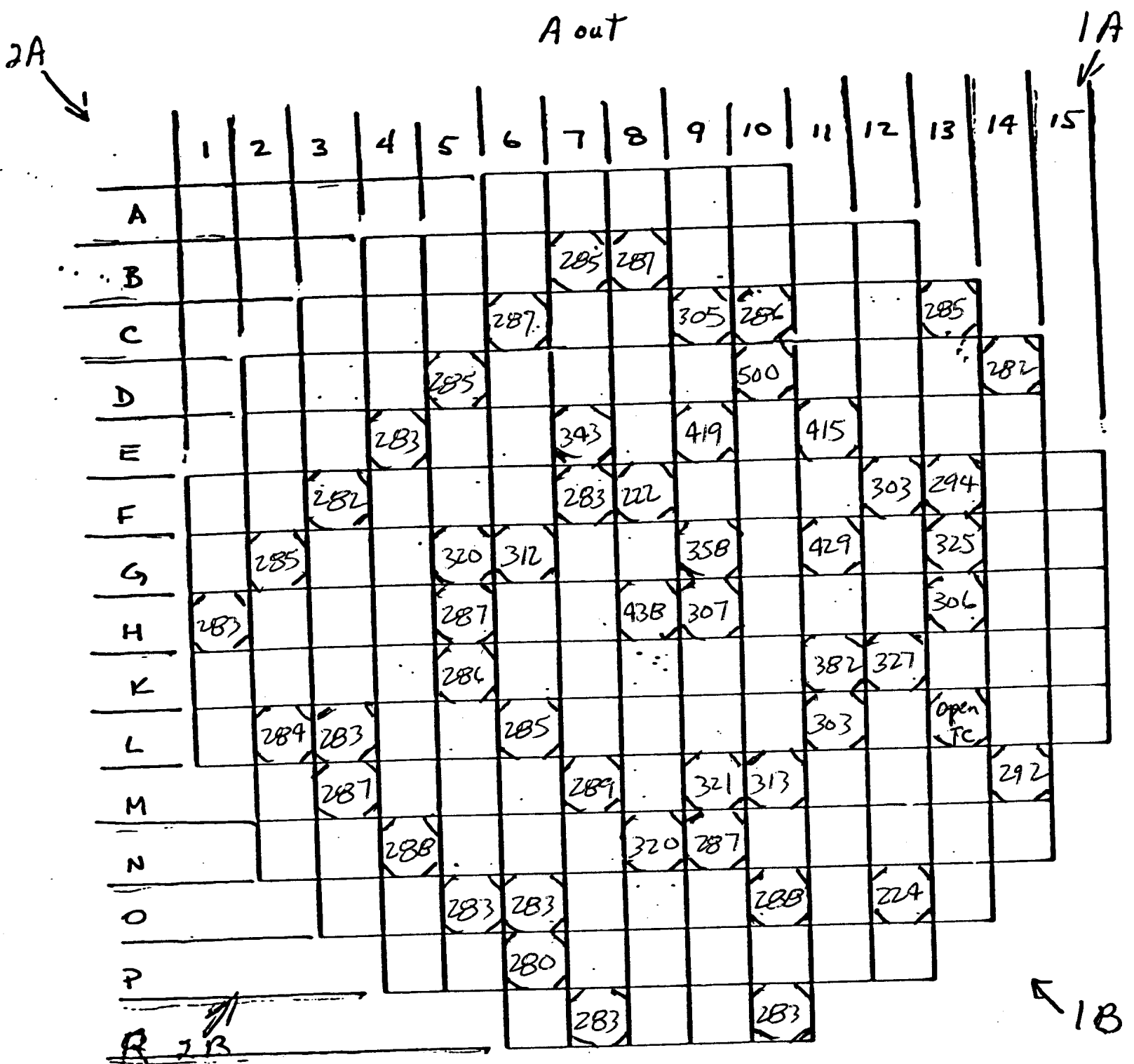
B out

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Date 3/31/79

Time 2330

Press. 1021

A inlet 277

B inlet 276

T pressure 552

L Pressurizer 194

Press SGA 30

Press SGB 25

Letdown Flow 0-15

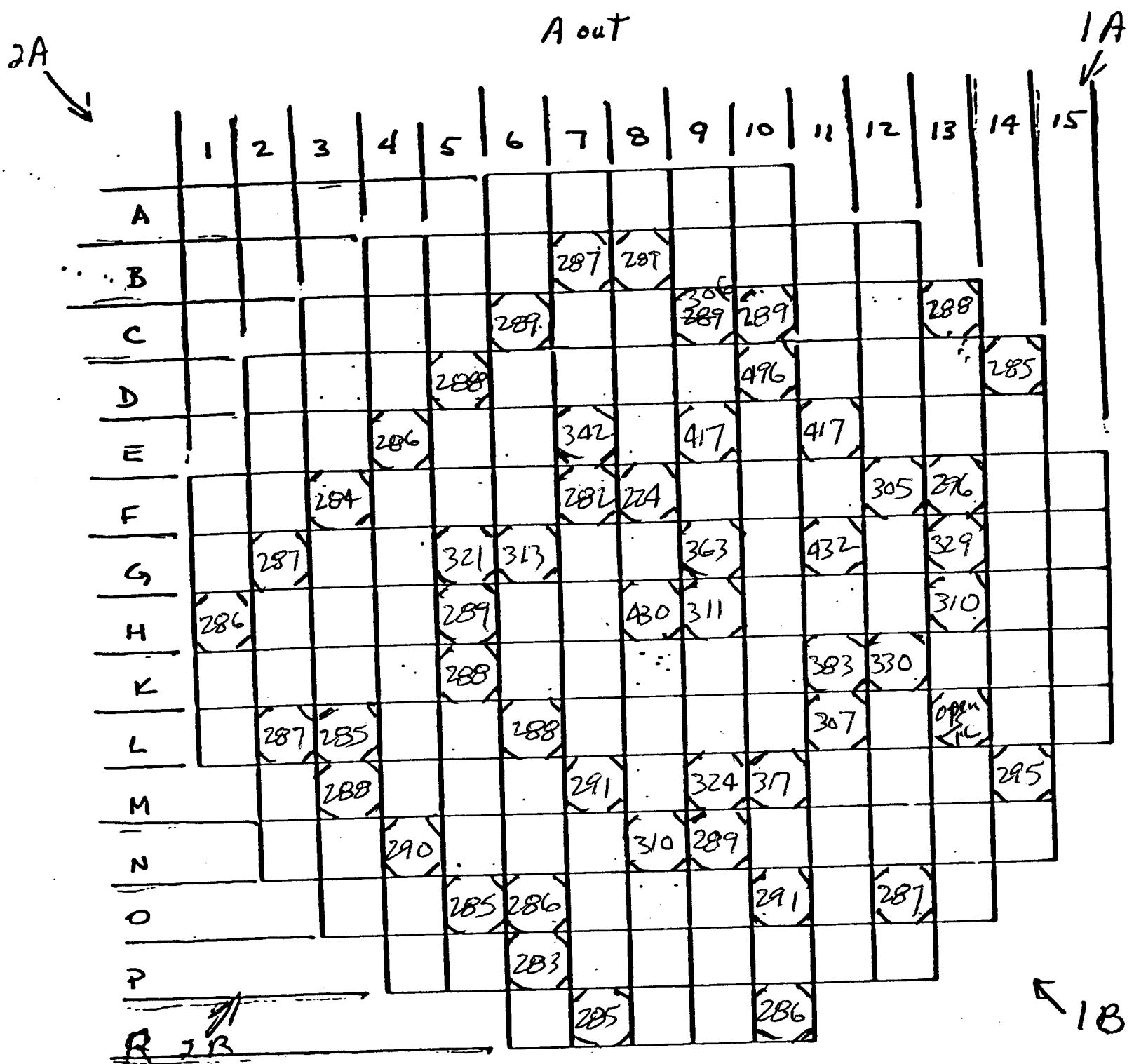
CDR-O

MTP. 3

GDR. 82

LOCATION OF FUEL ASSEMBLIES CONTAINING
BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 2

FIGURE 4.3-2



Date 4/1/79

Time 270030

Press. Pressure 1033

A inlet 279

B inlet 278

T Pressure 556

L Pressurizer 1.94

Press SGA 30

Press SGB 26

Letdown Flow 0-15

CDR 1.1

MUTP 2

GDTP 82

LOCATION OF FUEL ASSEMBLIES CONTAINING
BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 2




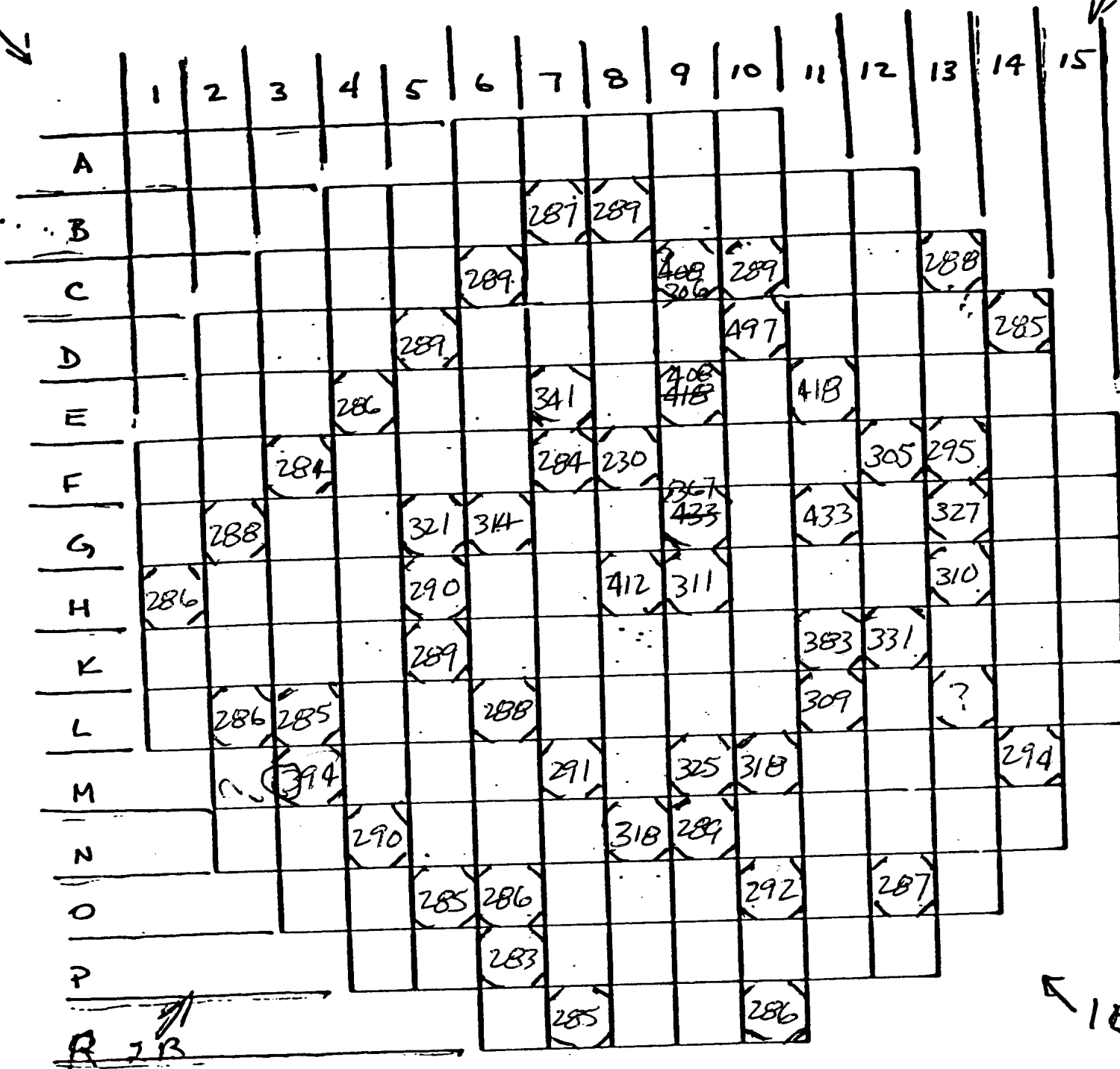




FIGURE 43-2

A out

1A

2A



B out

Date 4/1/79

Time 0130

Press. Pressure 1043

T_A inlet 279

T_B inlet 194 279

T pressure 557

L-pressurizer 194

Press SGA 30

Press SGB 26

Letdown Flow 0-15

CDR - 0.4

MUT - 0

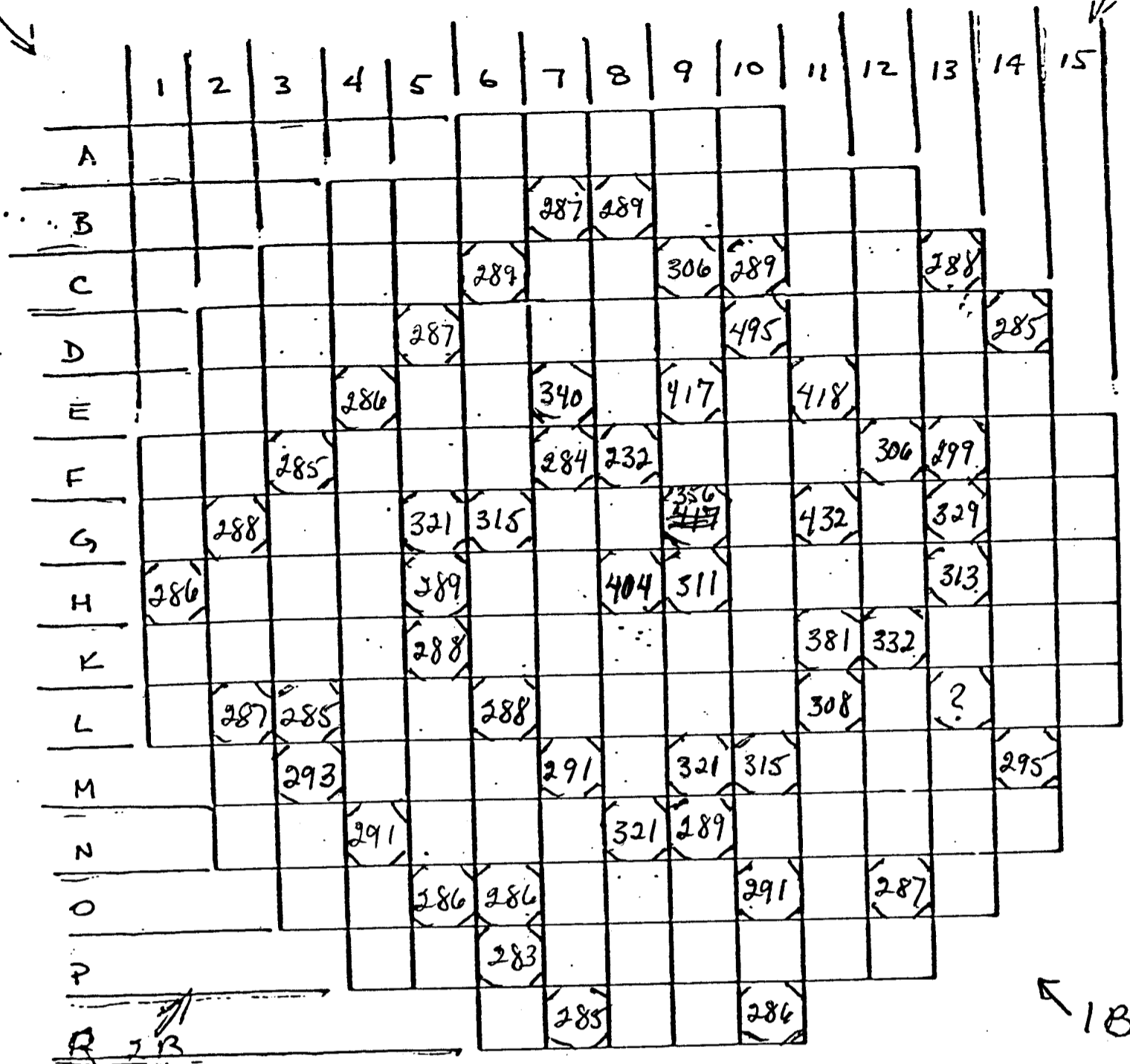
GDTP - 82

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Date 4/1/79

B out

Time 0235

Press. Pressure 1015

A inlet 279

B inlet 279

Pressure 854

Pressurizer 194

Press SGA 31

Press SGB 26

Letdown Flow 10-15 calculated by liquid balance

C & R - 0.2

MUT 0 psig
MUT level 45"
Recovery Tank Press. —

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

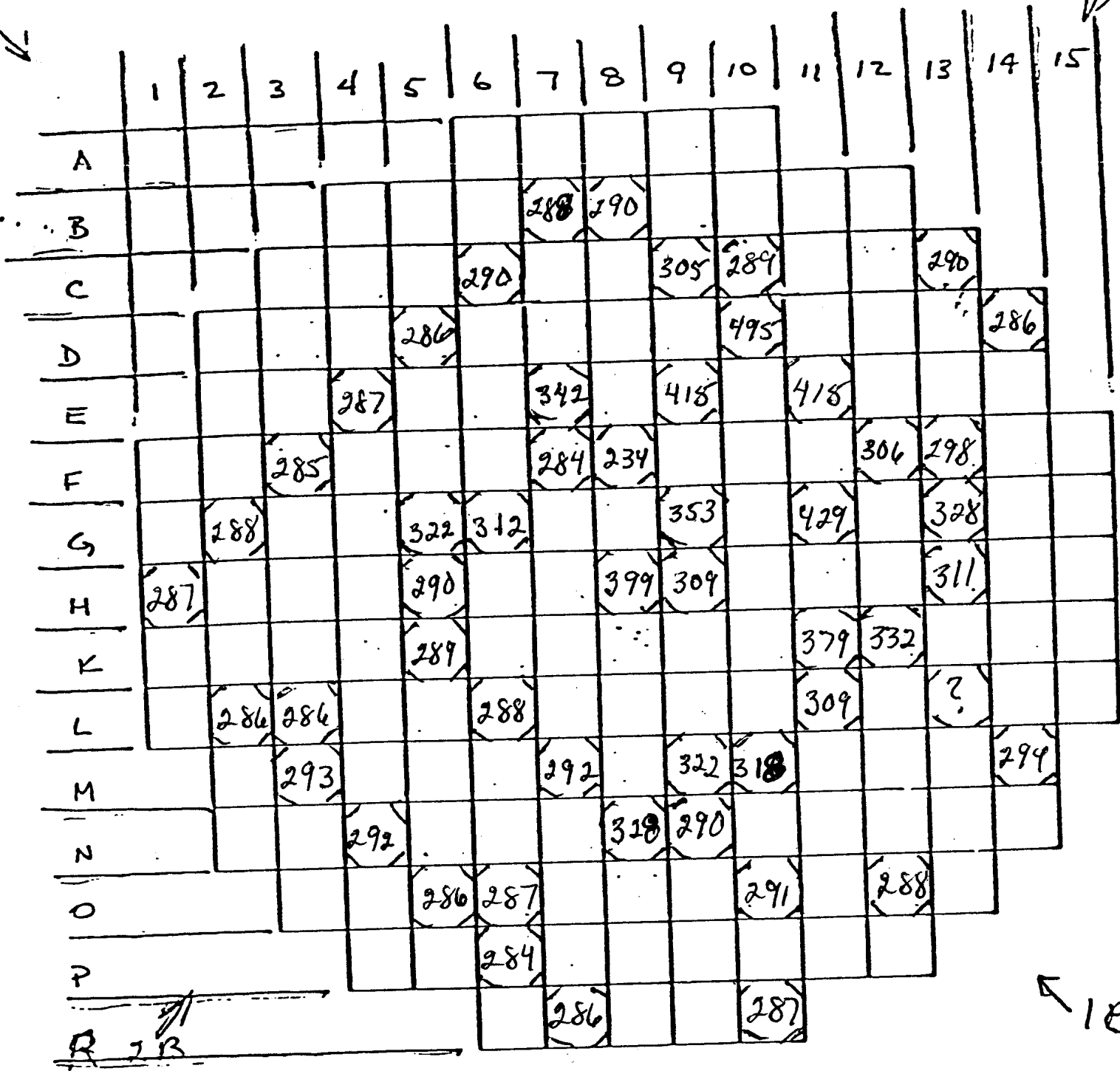
THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2

2H

111



Date 4/1/79
 Time 0340

B out

Press. Pressure 1008

A inlet 280

B inlet 279

Pressure 553

Pressurizer 195"

Press SGA 31

Press SGB 26

Letdown Flow 10-15 gpm calculated

CPR 0.2

MUT press 0 psig
 " hvl 48.5"

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2

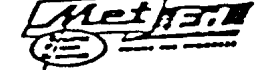
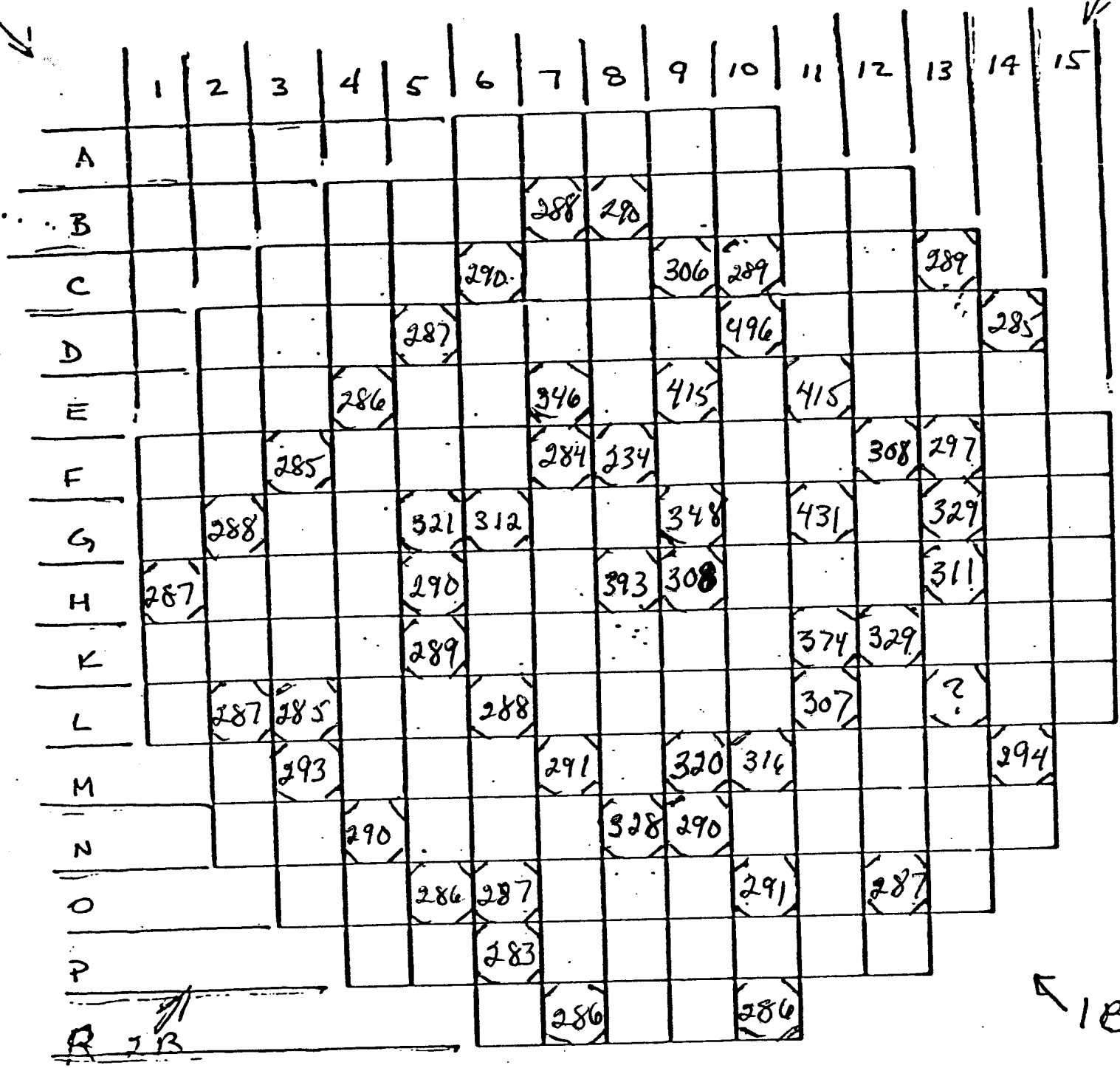


FIGURE 43-



Date 4/1/79
 Time 0450

B out

Press. Pressure 933 B 985 psig

A inlet 280
 B inlet 280

Pressure 549 F

Pressurizer 197"

Press SGA 31

Press SGB 26

Letdown Flow 10-15 calc.

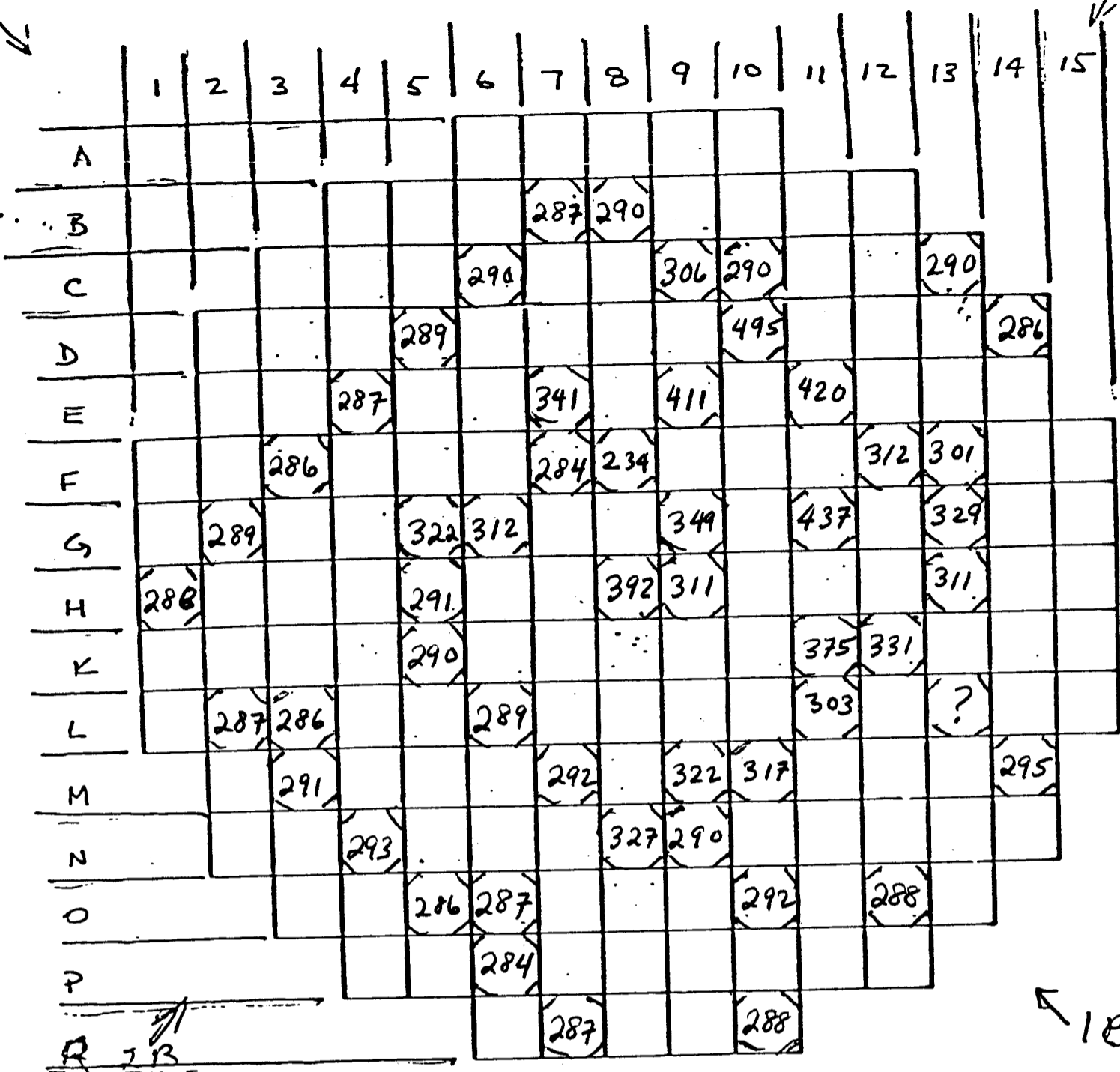
CDR +0.6

MUT press 0
 MAT lvl. 48"

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 43-2



Date 4/1/79

B out

Time 0552

Press. Pressure 1020 psig

A inlet 280 F

B inlet 280 F

Pressure 556 F

Pressurizer 193"

Press SGA 31

Press SGB 27

Letdown Flow 10-15 gpm calculated

CDR + .6
MUT press 0.5
lvl 46"

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 2



FIGURE 4.3-2

A out

2A ↘

1A ↙

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A															
B							289	291							
C						290			305	290			290		
D					288					494					286
E				287			342		410		419				
F			286				283	233				310	299		
G		289			322	314			352		435		330		
H	288				291			394	310					312	
K					289						376	332			
L		287	286			288					309		?		
M			288				292		322	318					295
N				293				328	291						
O					286	288				293		288			
P						284									
Q								287			288				
R															

1B ↙

Date 4/1/79

B out

Time 0643 ↗ ↘ 0641

Press. Pressure 1023 psig

T_A inlet 281 F

T_B inlet 280 F

T_{pressure} 554 F

L_{pressurizer} 192"

Press SGA 31 psig

Press SGB 26 psig

Leakdown Flow 10-15 gpm calculator

CDR - 0.2 F/hr

MUTR press 0
Lvl. 37

Decay tank pressure A 85 psig
B 84 psig

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

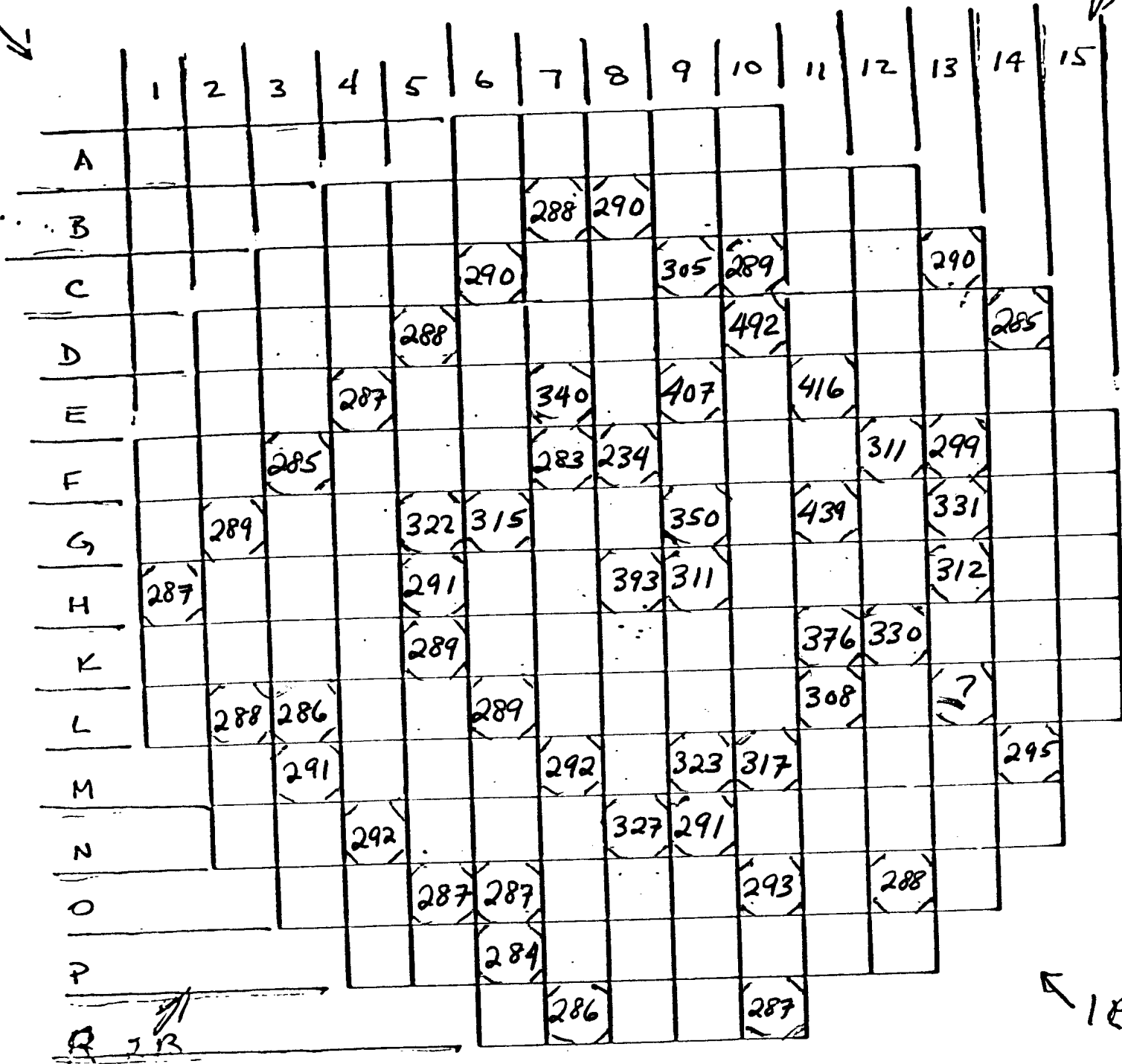


FIGURE

A out

2A ↘

1A ↘



1B ↙

Date 4/1/79

B out

Time 0720

Press. Pressure 976 psig

T_A inlet 280 F

T_B inlet 280 F

T_{pressure} 547 F

L pressurizer 198"

Press SGA 31

Press SGB 26

Letdown Flow 10-15 calculated

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1



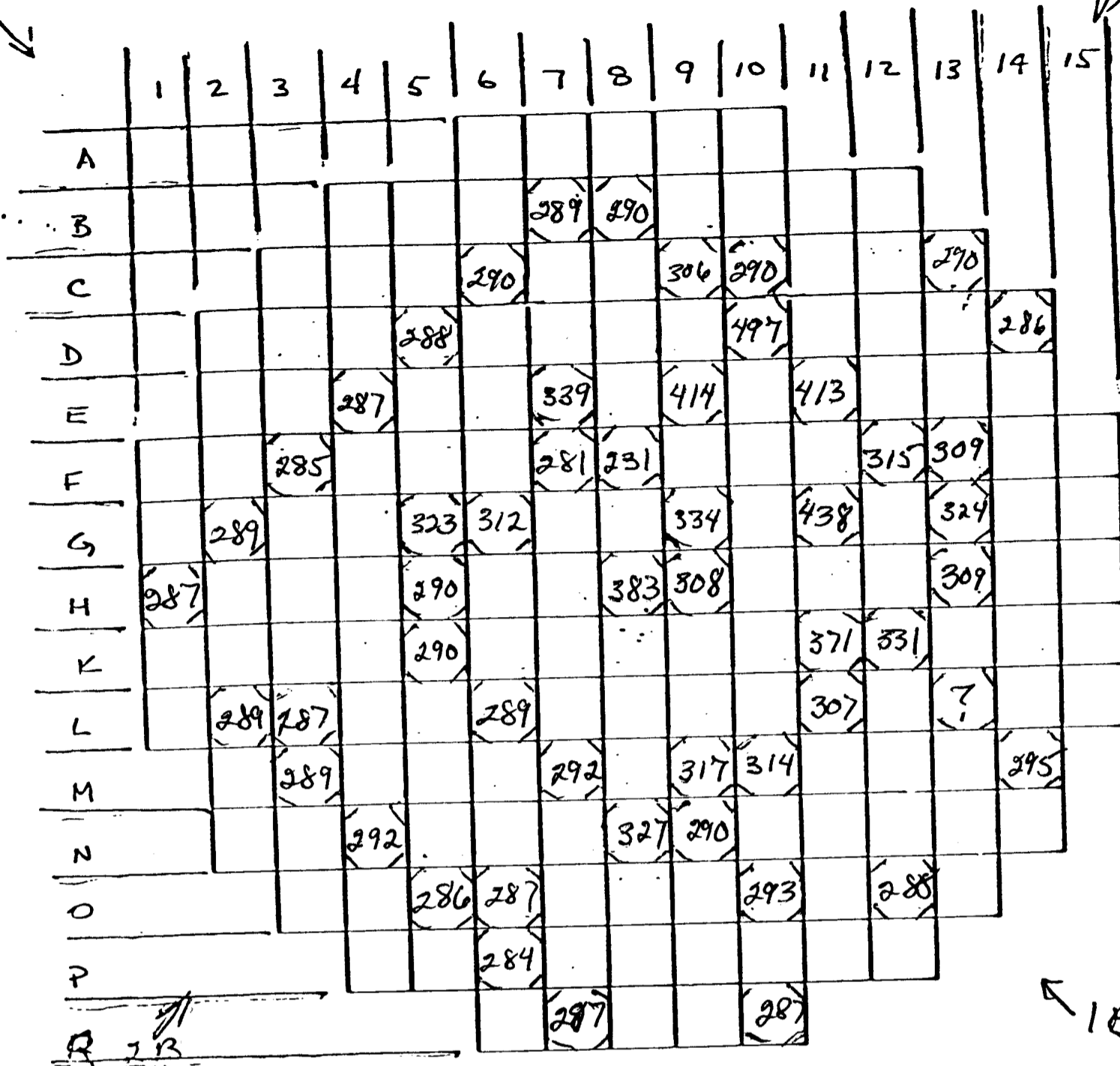
FIGURE

CDR -0.2 F/HR
MUT 1.8 pps
47 inches

A out

2A

1A



B out

Date 4/1/79

Time 0850

Press. Pressure 1003

T_A inlet 280

T_B inlet 280

T_{pressure} 552

L_{pressurizer} 193"

Press SGA 31

Press SGB 26

Letdown Flow same

CPR - 0.4 F/hr

S MUT LVL 49"

MAT Press 1 psi

LVL SCA 32"

LVL SGB 98"

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE

Pump Vibration - 19 mil

Bubble size = 710 cu ft
Cont Press = -1 psi

A out

2A

1A

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A															
B							288	290							
C						290			304	288			290		
D					289					490				286	
E				287			340	403		401					
F			286				281	231				312	299		
G		288			321	313			345		435			330	
H	287				291			386	307					311	
K					289						371	329			
L		289	286			288					307		?		
M			280				292		321	316					294
N				292				326	290						
O					286	287				292		288			
P						284									
Q								287		287					

1B

B out

Date 4/11/79
 Time 10:20
 Press. Pressure 1031

TA inlet 280
 TB inlet 280
 T pressure 556
 L pressurizer 193
 Press SGA 31
 Press SGB 26
 Letdown Flow 10-15 calculated

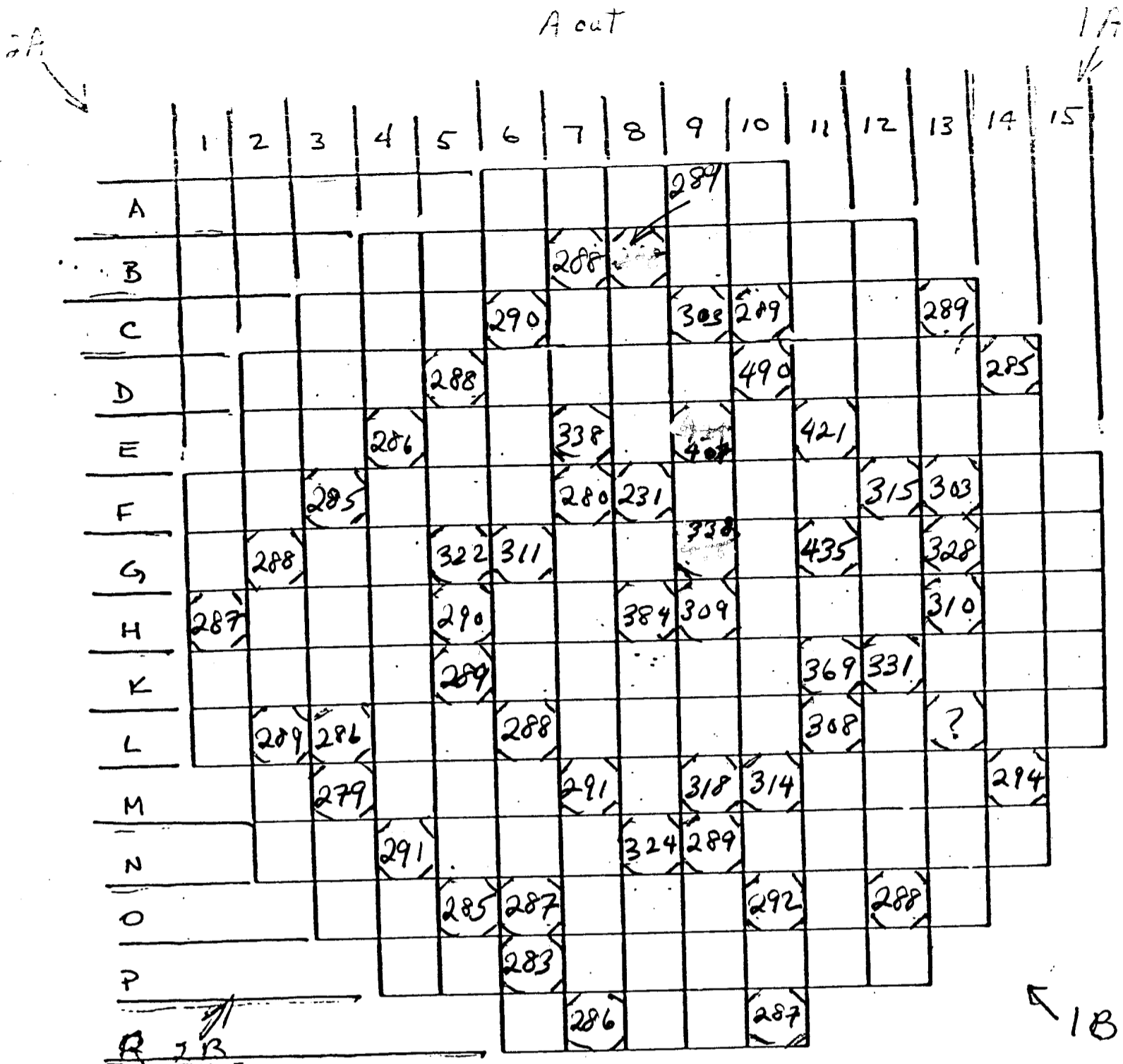
CDR 0
 MA T hot 45"
 MA T Press 2 psig
 Cont press -1 psig

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE 4

containment sump level estimated to be 2' at 10:10.



Date 4/1/79

Time 1130

Press. Pressure 1028 psig

TA inlet 280 F

TB inlet 279 F

T pressure 555 F

L Pressurizer 193"

Press SGA 31 psig

Press SGB 26 psig

Letdown Flow 19 gpm calculated on heat balance normal LP containment press. - 1.1 psig

CUR=0

max Tank level 45" press 1.1 psig

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43-

W.G. Decay TK 85 psig @ ~ 0900

2A

A out

1A

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A															
B							288	289							
C						290			303	289			289		
D					288					487					280
E				286			336		401		421				
F			285				279	230				314	299		
G		288			322	312			340		435		300		
H	287				290			384	306					311	
K					288							370	330		
L		289	286			288						309		?	
M			287				291		320	315					293
N				291				323	290						
O					286	287				292		288			
P						283									
Q								286			287				

18

Date 4/1/79

B out

Time 1255

11

Press. Pressure 979 psig

TA inlet 280 F

TB inlet 279 F

T pressure 549 F

L Pressurizer 195"

Press SGA 31 psig

Press SGB 26 psig

Letdown Flow 19 gpm no change

CDR = 0

M.U tank level 42"
press 2 psig

Press in containment -1 psig

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2

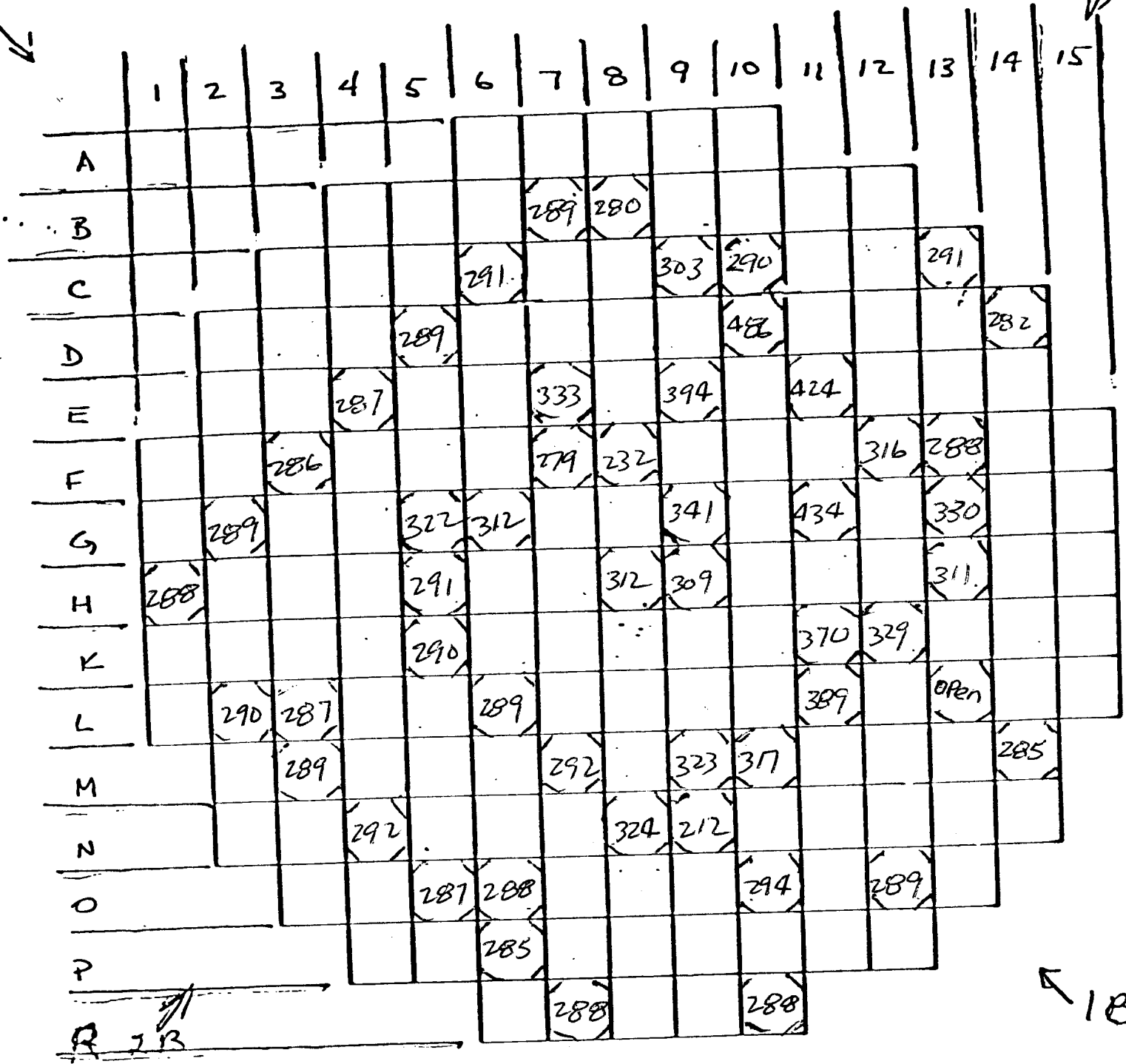


FIGURE 43-

A out

2A ↘

1A ↙



B out

Date 4/1/79

Time 1515

Press. Pressure 981

T_A inlet 281

T_B inlet 280

T_{pressure} 549

L Pressurizer 212

Press SGA 31

Press SGB 26

Letdown Flow 19 gpm

COR 1.3

MUTP_{rim} 2

GDT_{Prim} 85

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

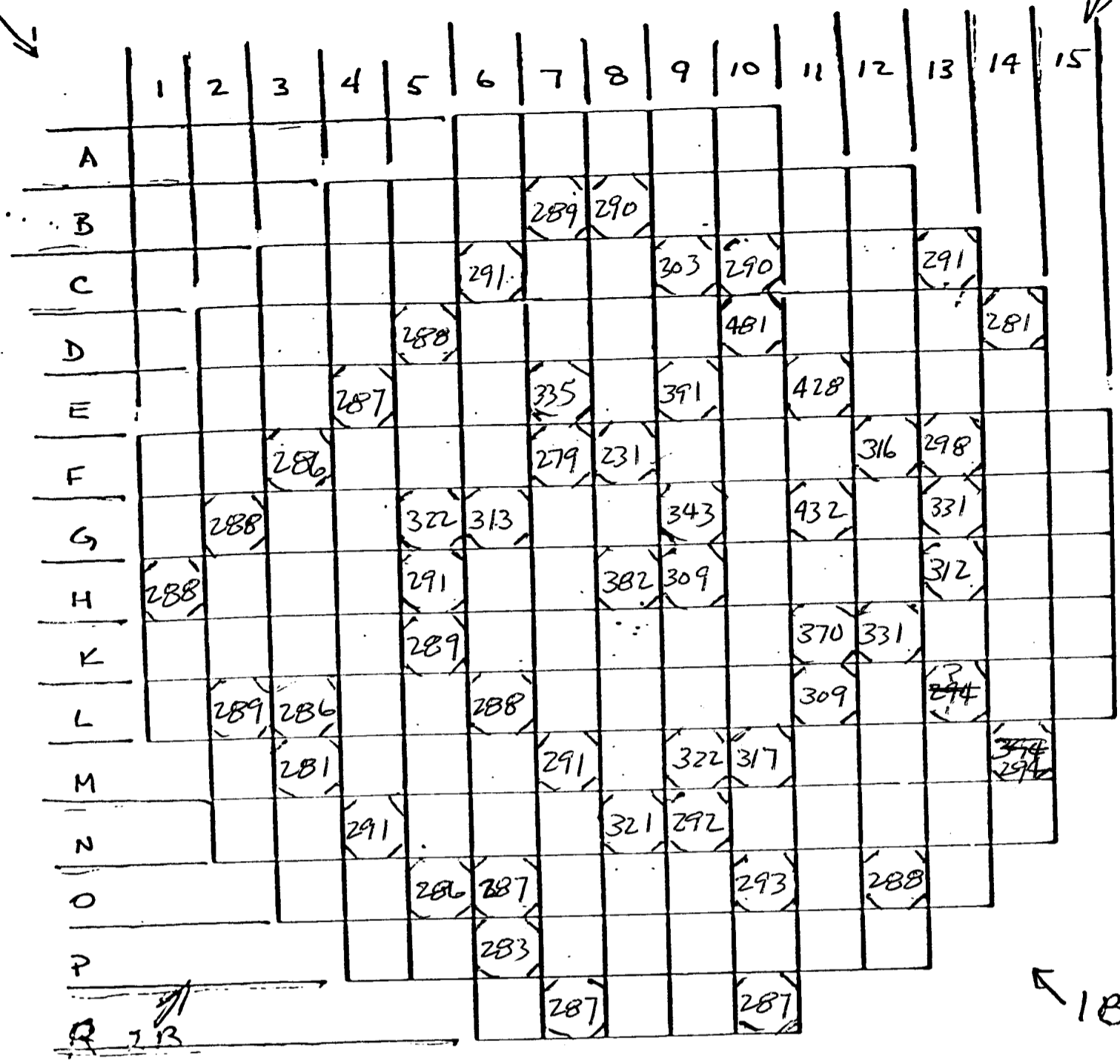


FIGURE

A out

2A ↘

1A ↙



1B ↙

Date 4/1/79

Time 1650

Press. Pressure 1023

T_A inlet 280

T_B inlet 280

T_{pressure} 555

L Pressurizer 201

Press SGA 31

Press SGB 26

Letdown Flow 19 gpm

CDR .6

MUTP 4

MUTL 48

GDTP 85

B out

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

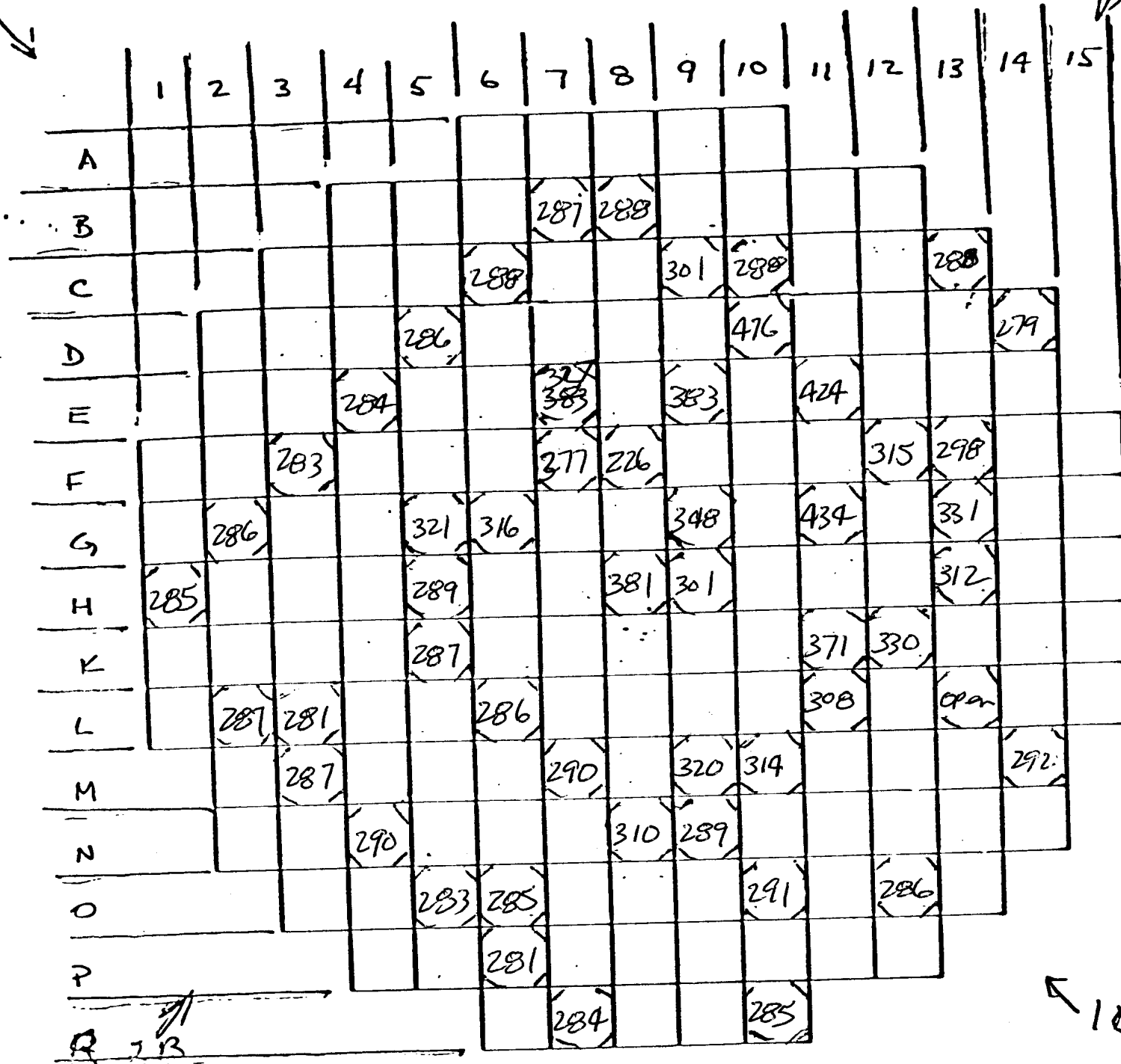


FIGURE

A out

2A

1A



Date 4/1/79

B out

Time 1924 1947 for plant parameters

Press. Pressure 957

TA inlet 278

TB inlet 278

T pressure 550

L Pressurizer 201

Press SGA 30

Press SGB 25

Letdown Flow 119 gpm

CDR -111
 MUTL 43
 MUTP 1
 GOTP 85

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION

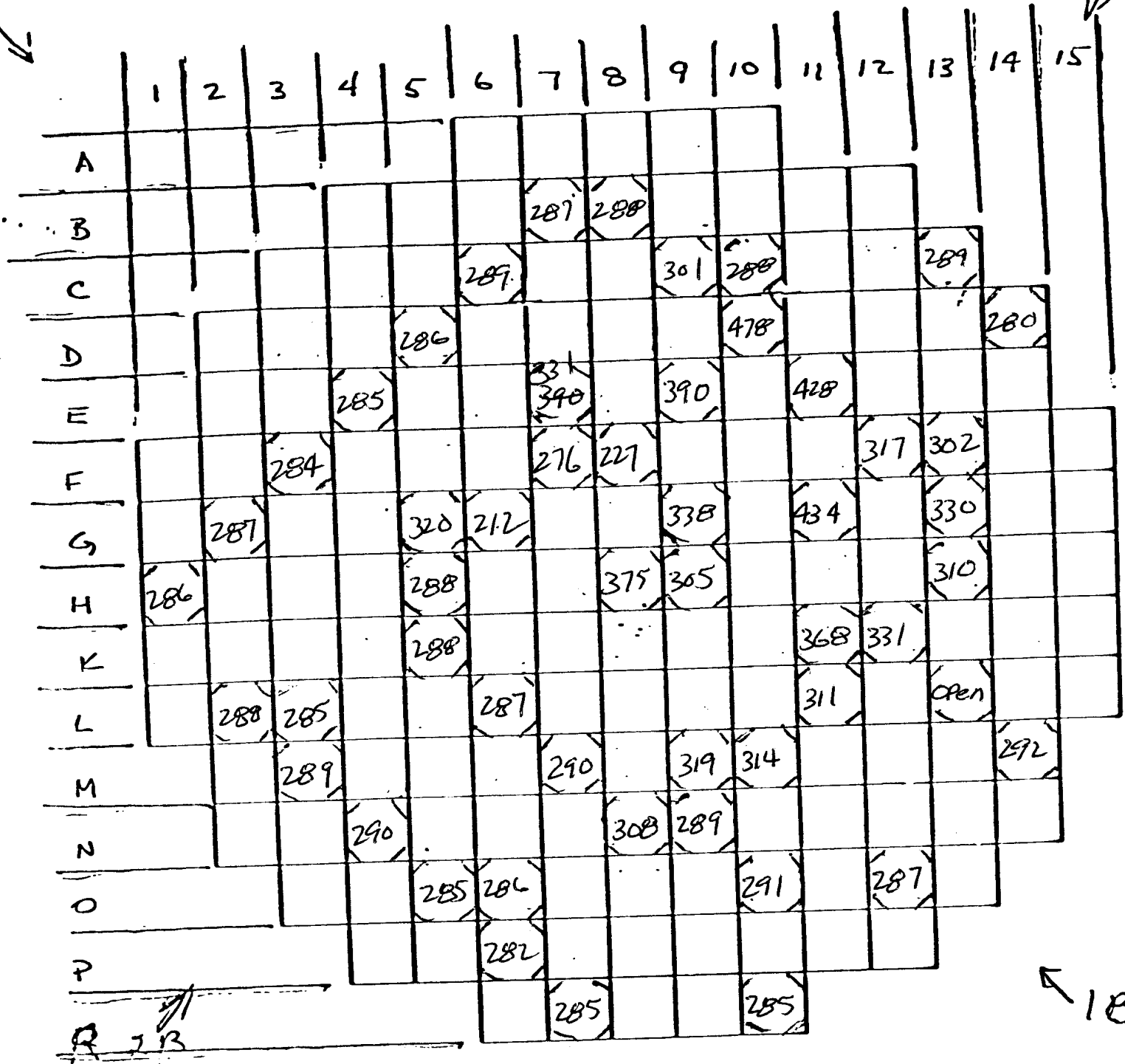


FIGURE

A out

2A ↘

1A ↘



18 ↙

Date 4/1/79

B out

Time 2052

Press. Pressure 1058

TA inlet 279

TB inlet 279

T pressure 558

L pressurizer 202

Press SGA 30

Press SGB 25

Letdown Flow 19 gpm

CDR 4

MUTL 40

MUTP 0

GOTP 85

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

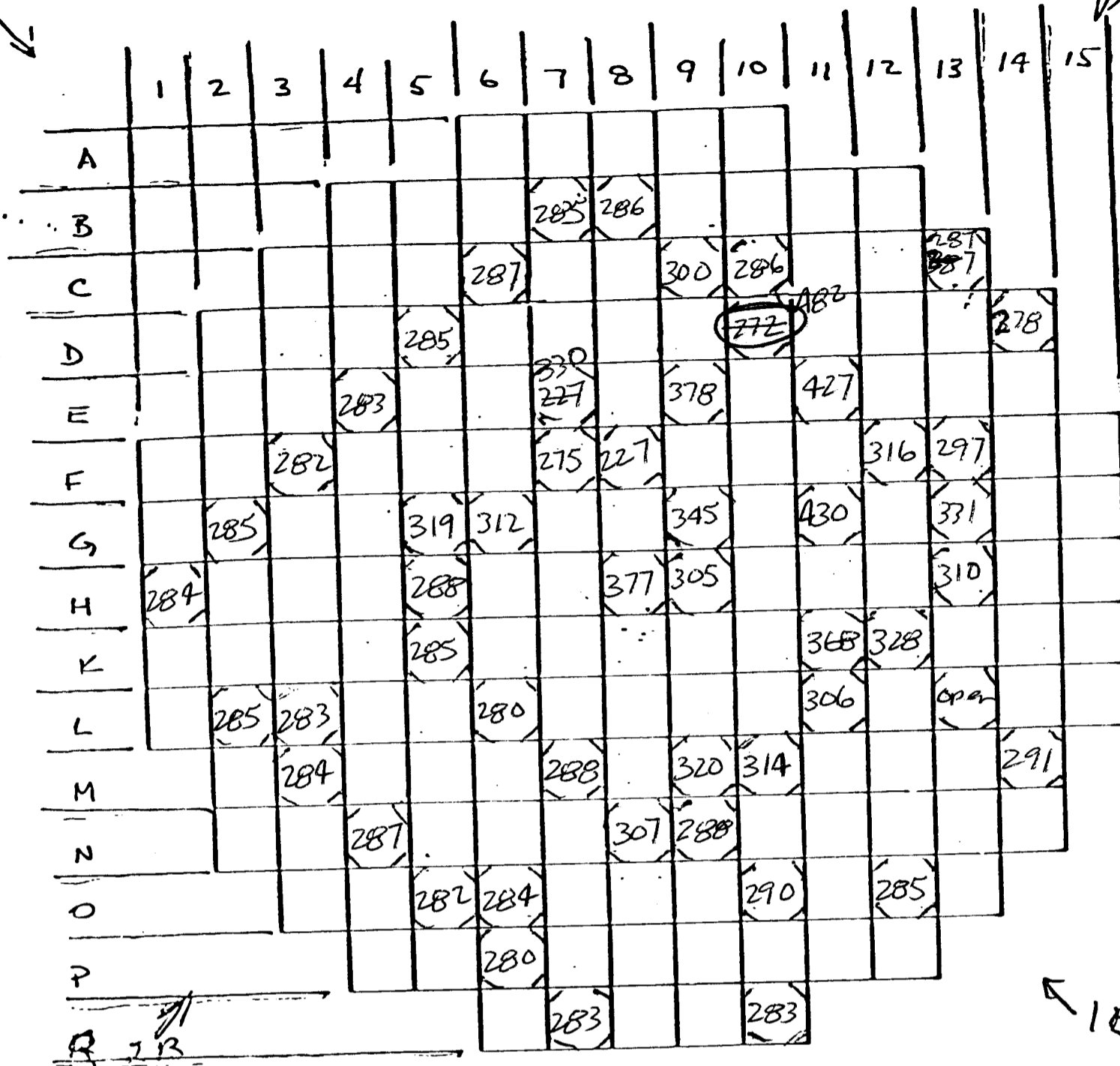


FIGURE

2A ↘

A out

1A ↙



↙ 1B

Date 4/1/79
Time 2200

B out

Press. Pressure 1018

T_A inlet 277

T_B inlet 277

T_{pressure} 553

L_{pressurizer} 201

Press SGA 29

Press SGB 24

Le_{down} Flow 19 gpm

CDR - 1.3

mVTP - ~~45~~

mVTL - 45

GDTP - 85

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

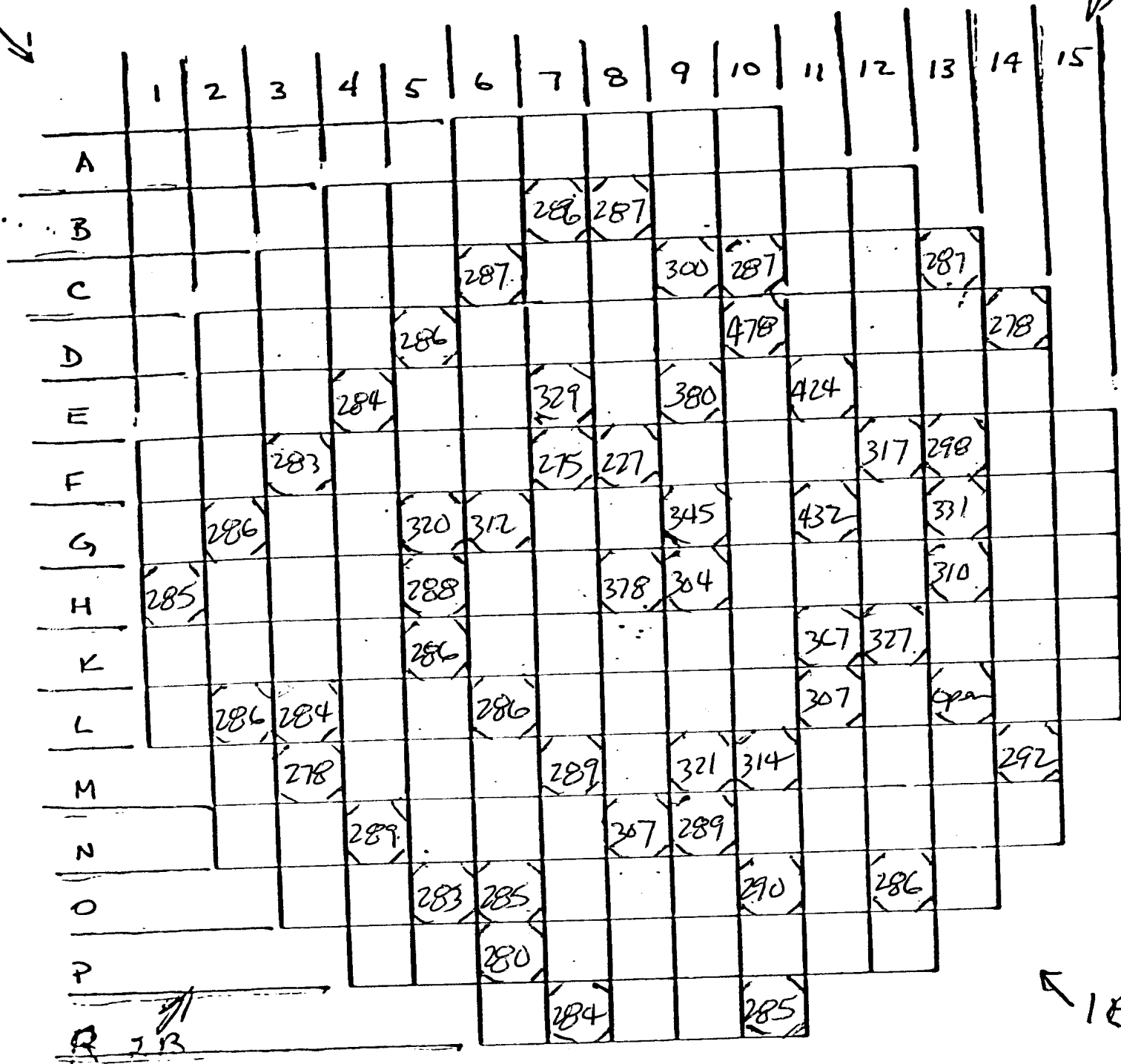


FIGURE

Aout

1A

2A



Bout

Date 4/1/79

Time 2330

Press. 1040

1A inlet 277

1B inlet 277

T pressure 558

1-pressurizer 202

Press SGA 30

Press SGB 25

Letdown Flow 19

CDR - 1A

MUTL 41

MAT P 1

GDTP 85

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 1

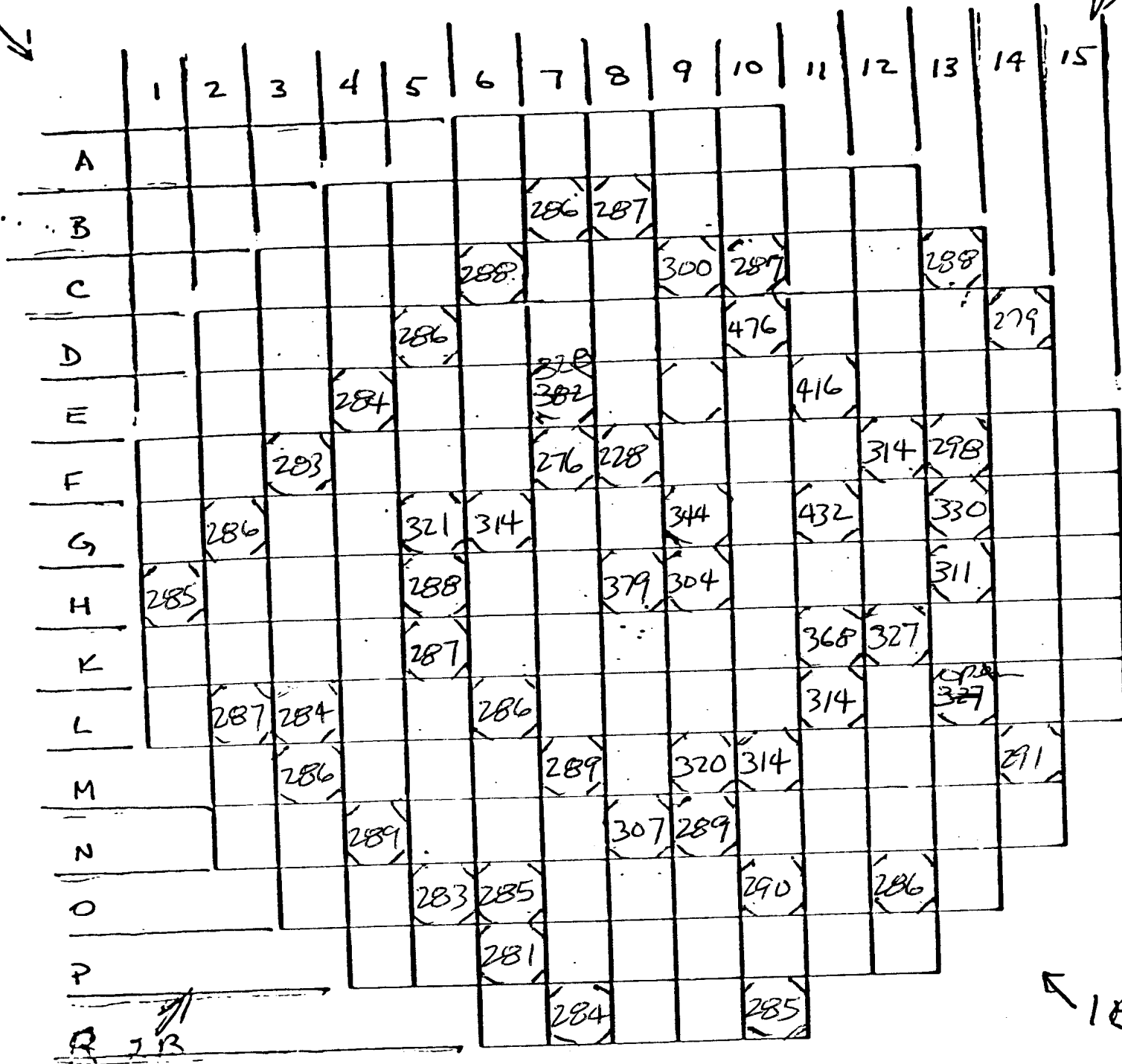


FIGURE

A out

2A ↘

1A ↘



18 ↙

Date 4/2/79

B out

Time 0045

Press. Pressure 957

T_A inlet 278

T_B inlet 278

T_{pressure} 550

L pressurizer 213

Press SGA 30

Press SGB 25

Letdown Flow 19

- 12

MUT L 44

0

Bubble 198

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 1

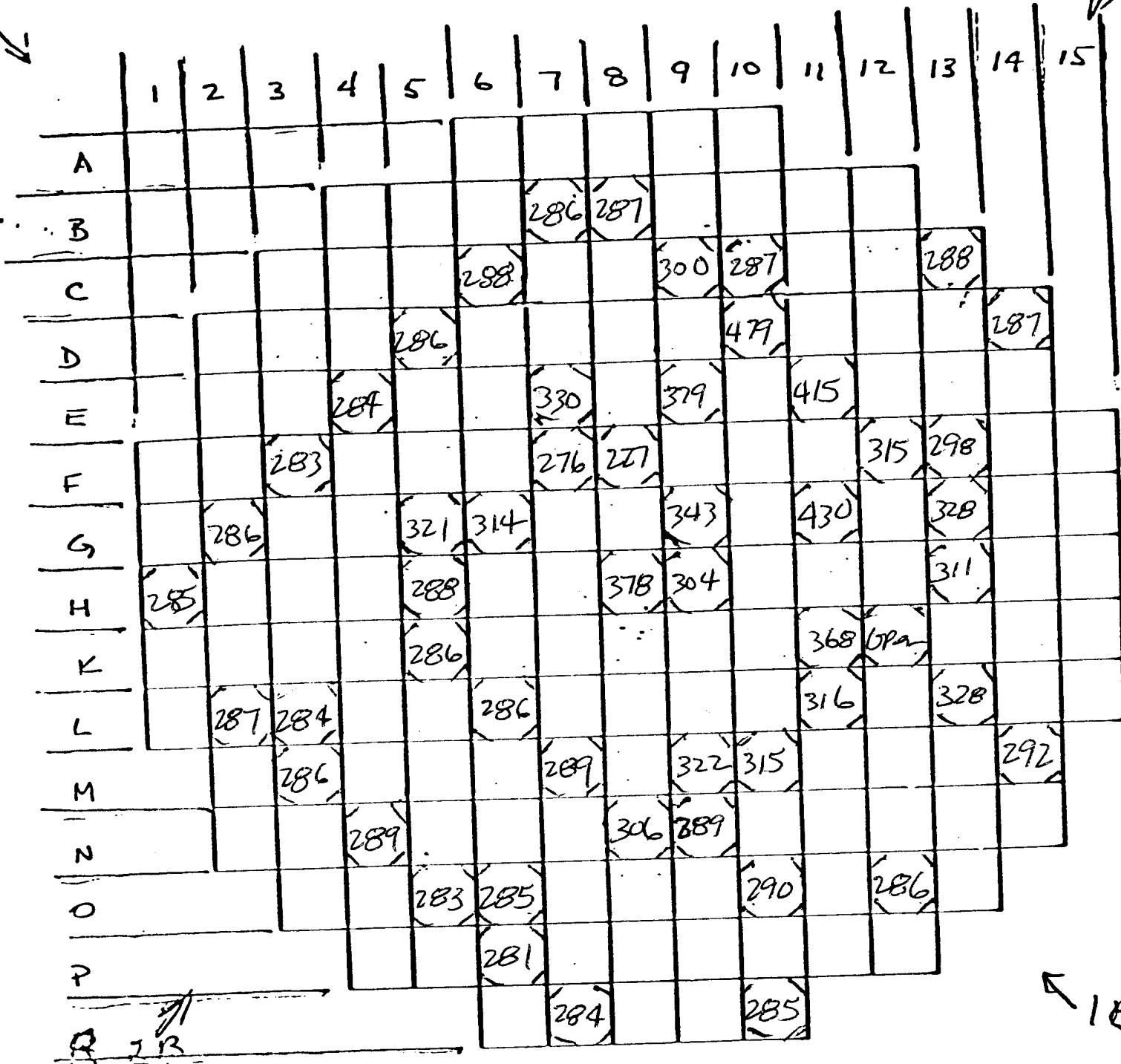


FIGURE

A out

2A ↘

1A ↙



1B ↙

B out

Date 4/2/79

Time 0147

Press. Pressure 1020

T_A inlet 278

T_B inlet 278

T_{pressure} 554

L_{pressurizer} 207

Press SGA 30

Press SGB 24

Letdown Flow 19

CDR - O.C

MUTP 0

MUTL 50.

GDTP

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

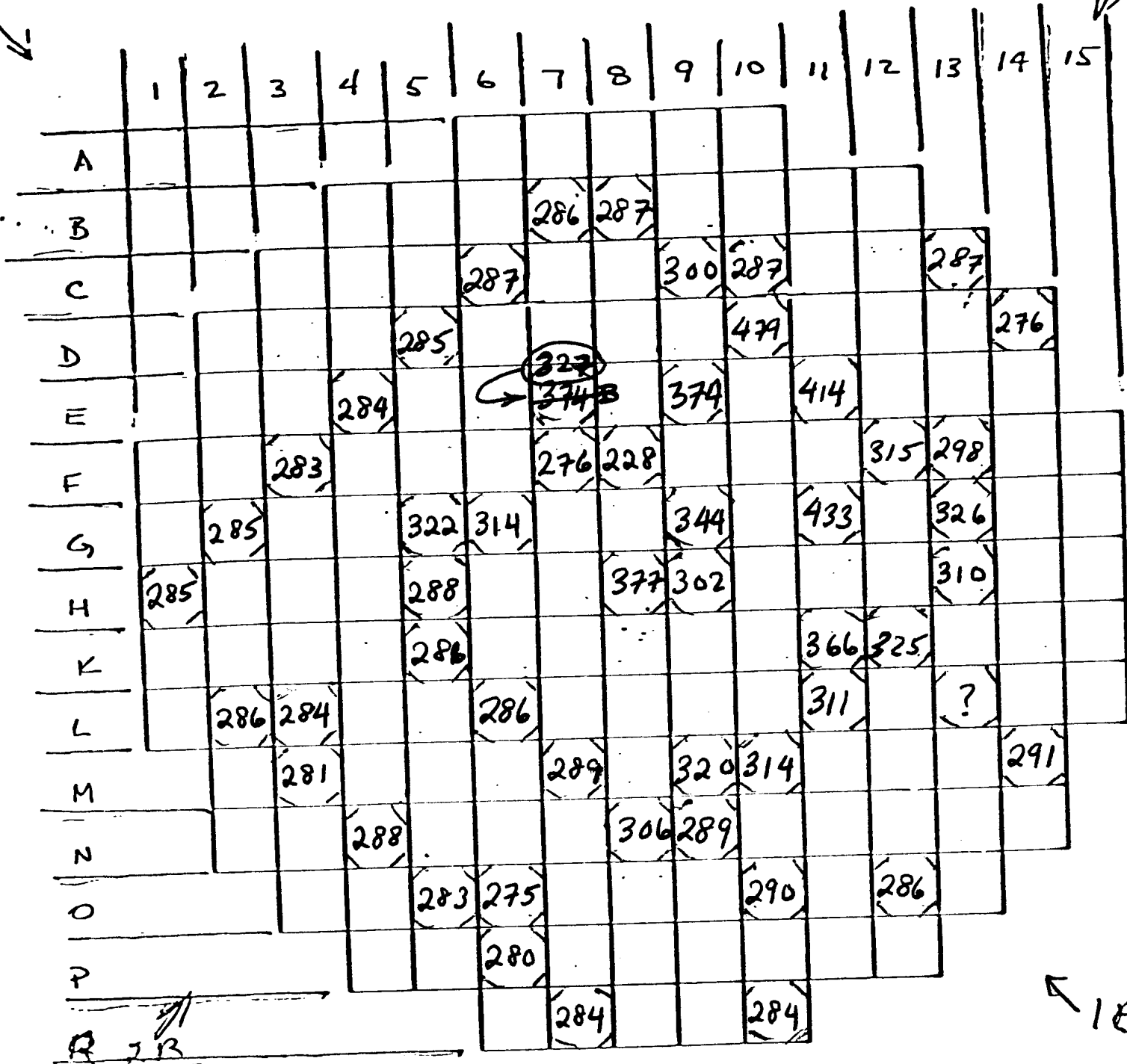


FIGURE

A out

1A

2A



Date 4/2/79

B out

Time 0245

Press. Pressure 989 psig

T_A inlet 278 F

T_B inlet 278 F

T_{pressure} 555 F

L Pressurizer 202"

Press SGA 29 psig

Press SGB 24 psig

Letdown Flow

$\frac{dT}{dt} = -1.1 F/hr$

MUTK level 52
press 0.

P containment -1.1 psig

Waste gas decay tank
pressure A 86 psig
B 86 psig
@ 4/2 0145

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

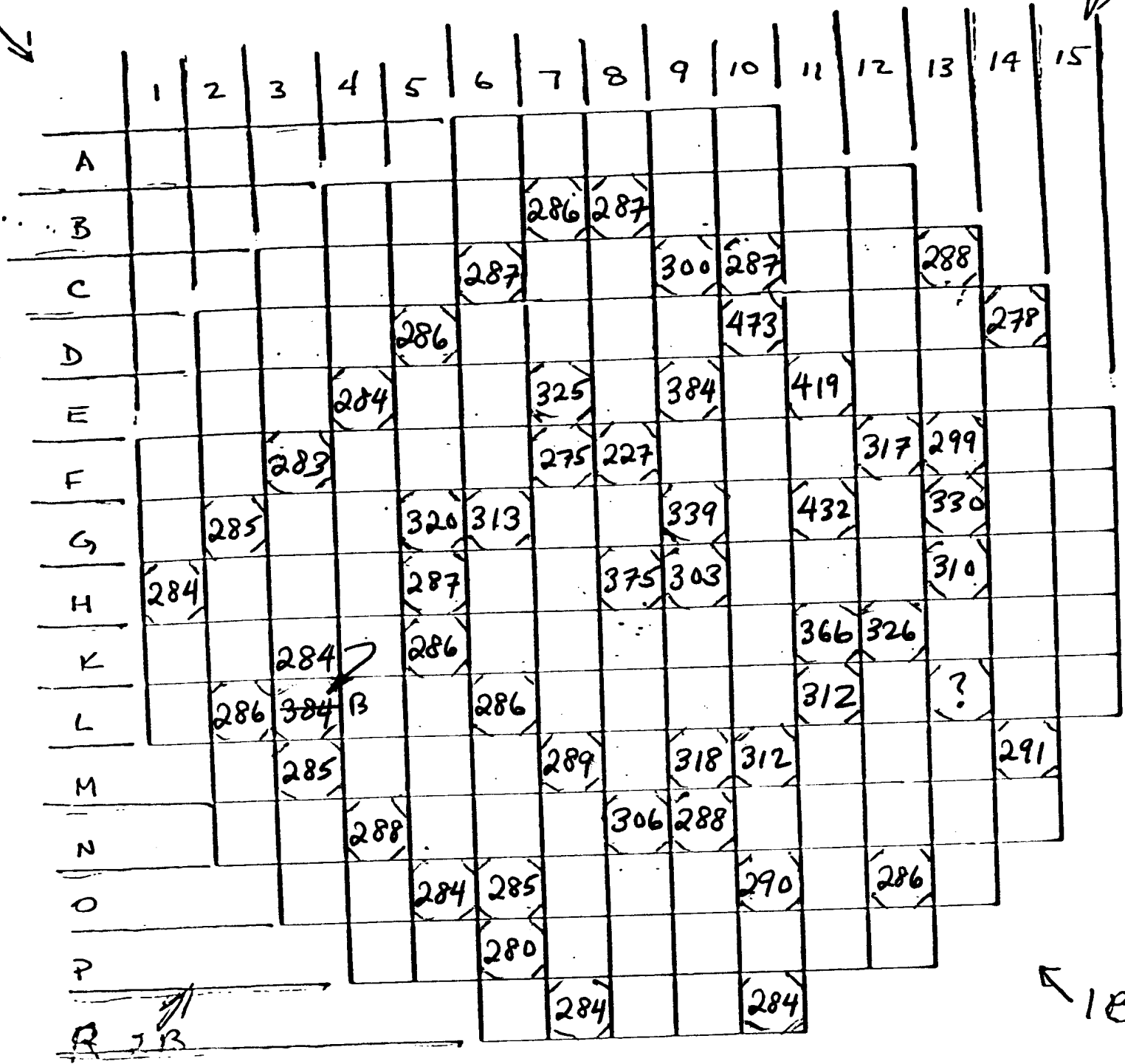


FIGURE

A out

2A ↘

1A ↘



1B ↙

Date 4/2/79

B out

Time 0336 ↗ 0334 received 0415

Press. Pressure 904 psig ↘

T_{A inlet} 278 F

T_{B inlet} 278 F

T_{pressure} 540 F

L_{pressurizer} 218 in.

Press SGA 30 psig

Press SGB 24 psig

Letdown Flow

$\frac{dT}{dt} + 1.5 F/hr$
 $min T \approx 42"$
 Press 0

P_{cont} -1.1 psig

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1

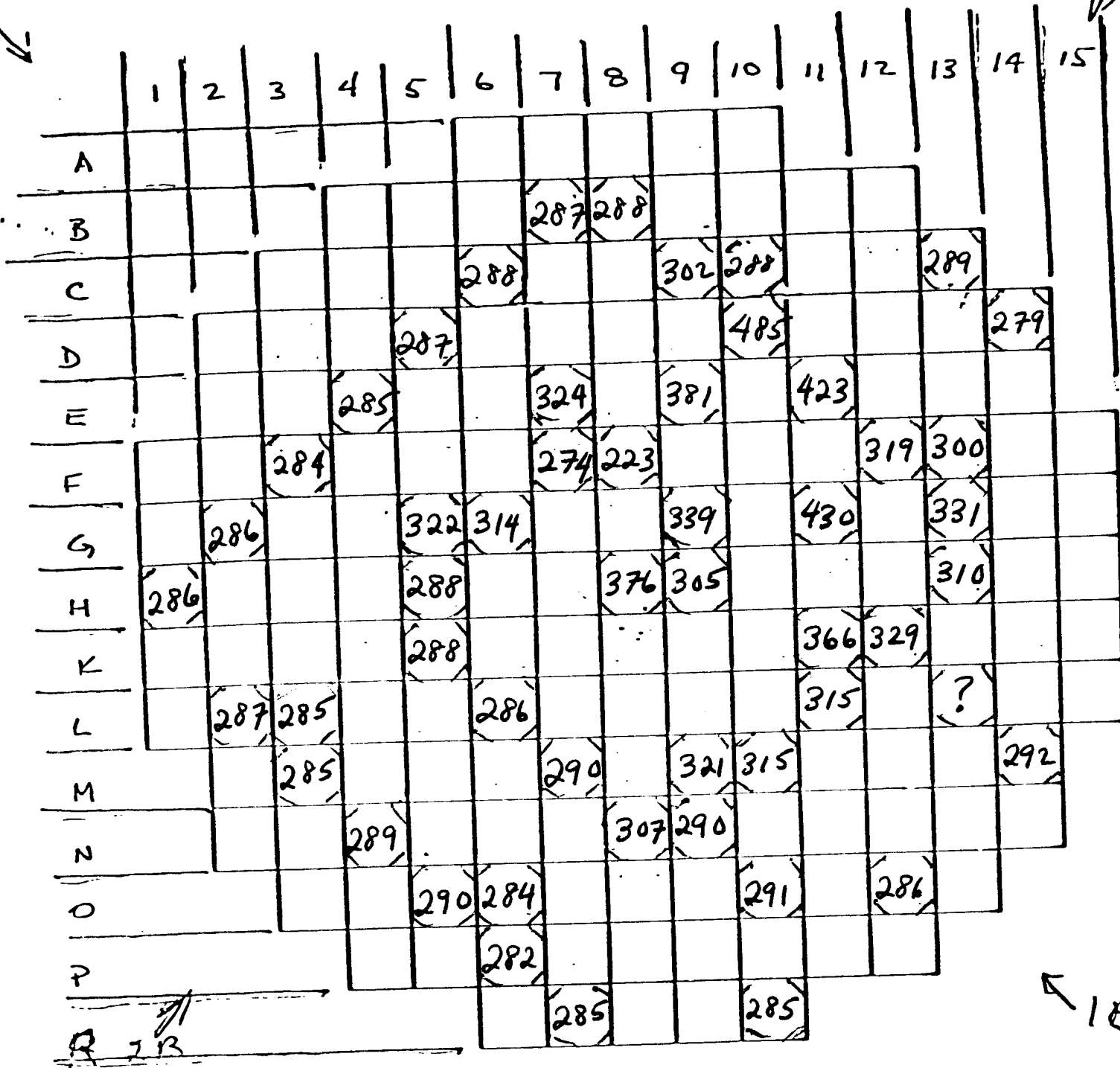


FIGURE

A out

2A

1A



B out

Date 4/2
 Time 0531

Press. Pressure 1015 psig

T_{A inlet} 277 F

T_{B inlet} 279 F

T_{pressure} 544 F

L_{pressurizer} 208"

Press SGA Lvl 20%

Press SGB Lvl 92%

Letdown Flow varying with pressure

$\frac{dT}{dt} = .6 \text{ F/hr}$

$P_{cont} = 1.1 \text{ psig}$

MUT-level 50"
 press 0 psig

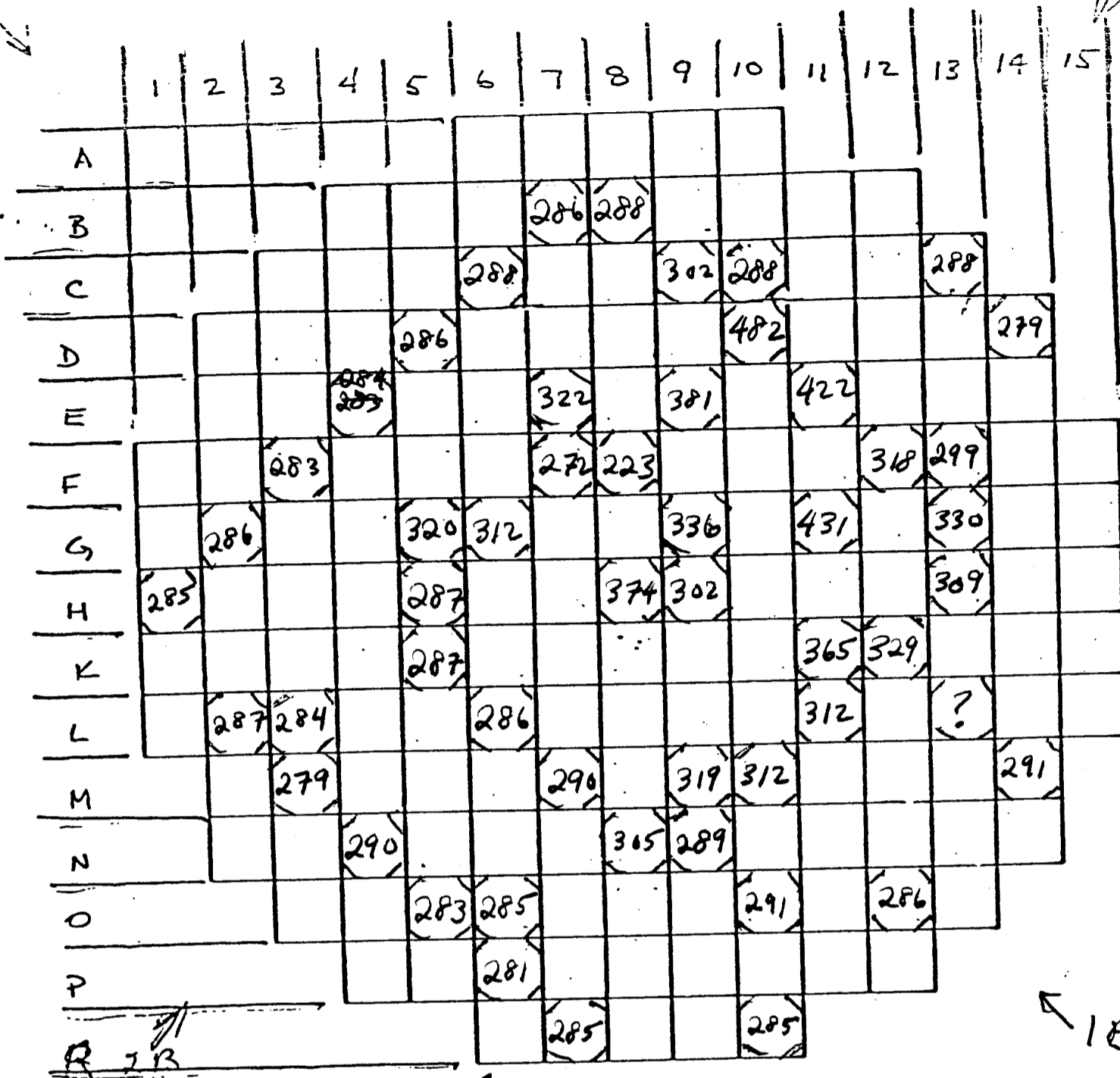
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION



FIGURE

A out

1A



Date 4/2/79 0653 → B out

Time 0725 0704

Press. Pressure 1026

T_A inlet 278 F

T_B inlet 276 F

T pressure 554 F

L pressurizer 208"

Press SG A 31 psig

Press SG B 26 psig

Letdown Flow 10-15 gpm Containment Press -1.1 psig

$\frac{dT}{dt} = -.2 F/hr$

MUT level 47.1"

MUT press 0

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

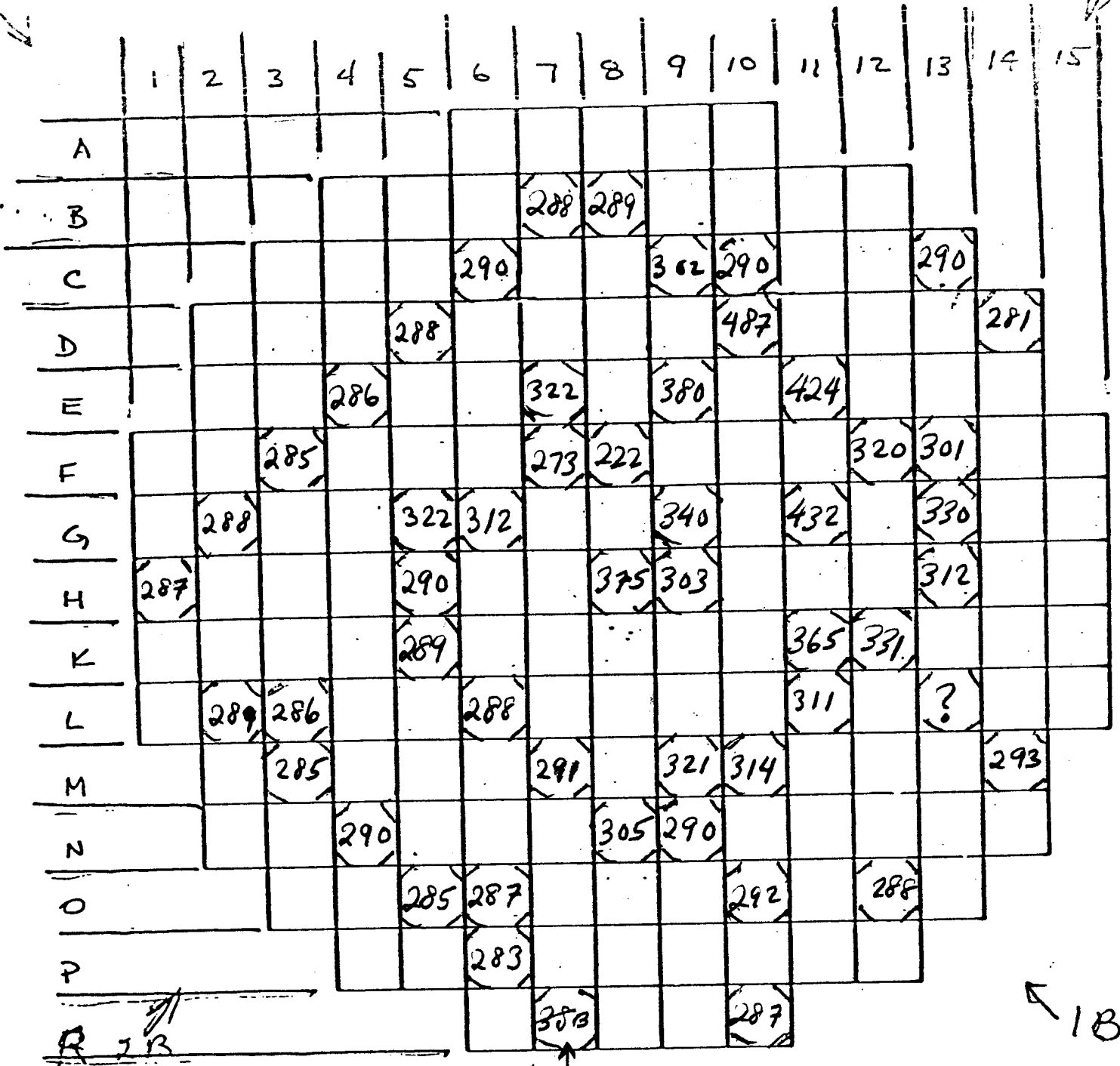


FIGURE 43-

A out

2A

1A



Date 4/2/79

Time 0920

Press. Pressure 1032 psig

T_A inlet 280 F

T_B inlet 280 F

T_{pressure} 560 F

L pressurizer 193"

Press SGA _____

Press SGB _____

Letdown Flow 10-15 gpm
variable

$$\frac{dT}{dt} = 0$$

Mu Tk level 50"

Mu Tk press _____ psig

Containment press _____ psig

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2

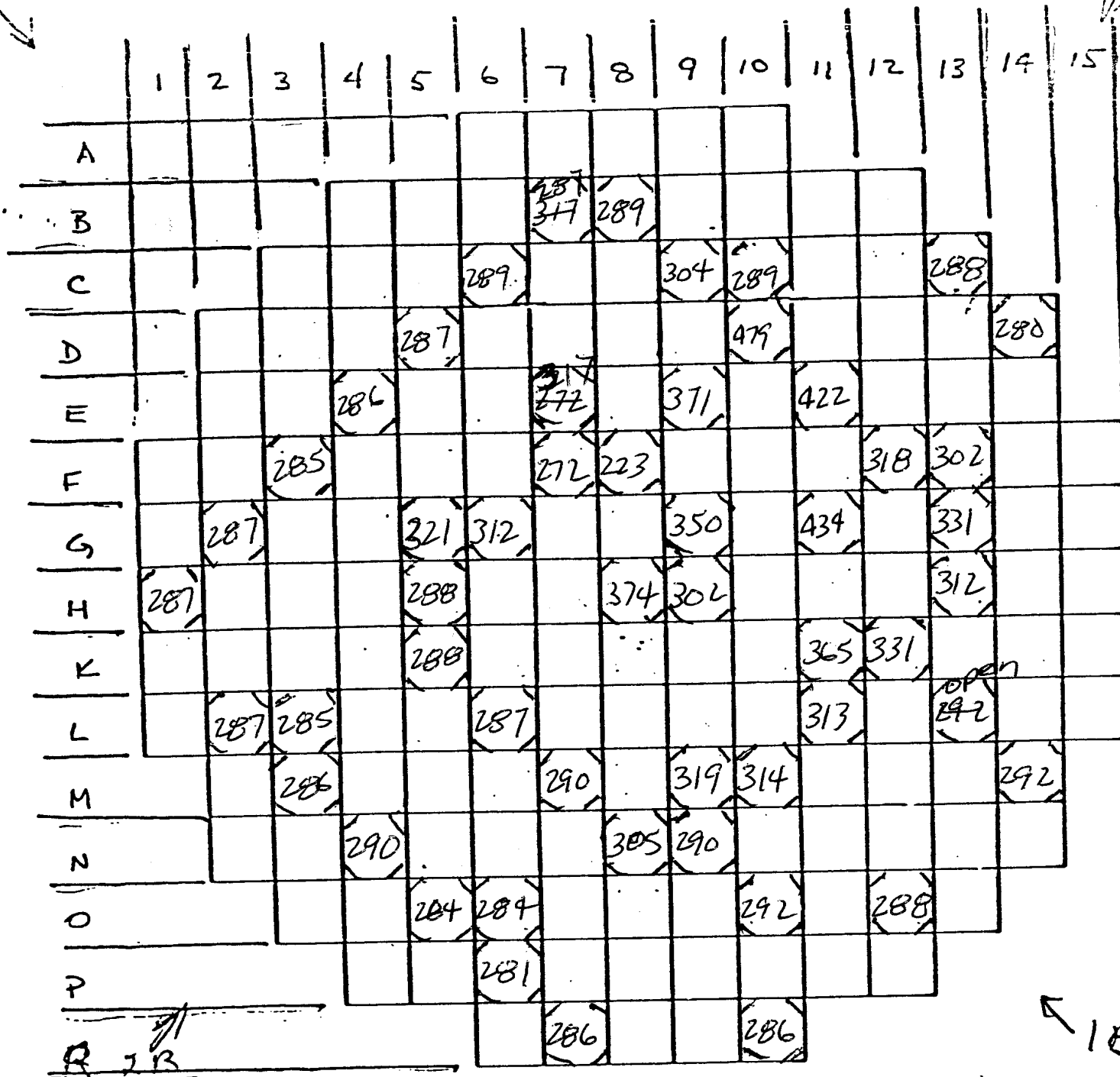


FIGURE 43-

2A ↙

A out

1A ↘



↖ 18

Date 4/2/79

B out

Time 1500 core map @ 1540

Press. Pressure 1043 psig (Loop A)

TA inlet 280°F

TB inlet 278°F

T pressure 556°F

L Pressurizer 242"

Press SGA 30 psig Level 37%

Press SGB 25 psig Level 90%

Letdown Flow 10 gpm (calc)

MU Tank Level 52"

$$\frac{dT}{dt} = -4^\circ\text{F/hr}$$

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 2

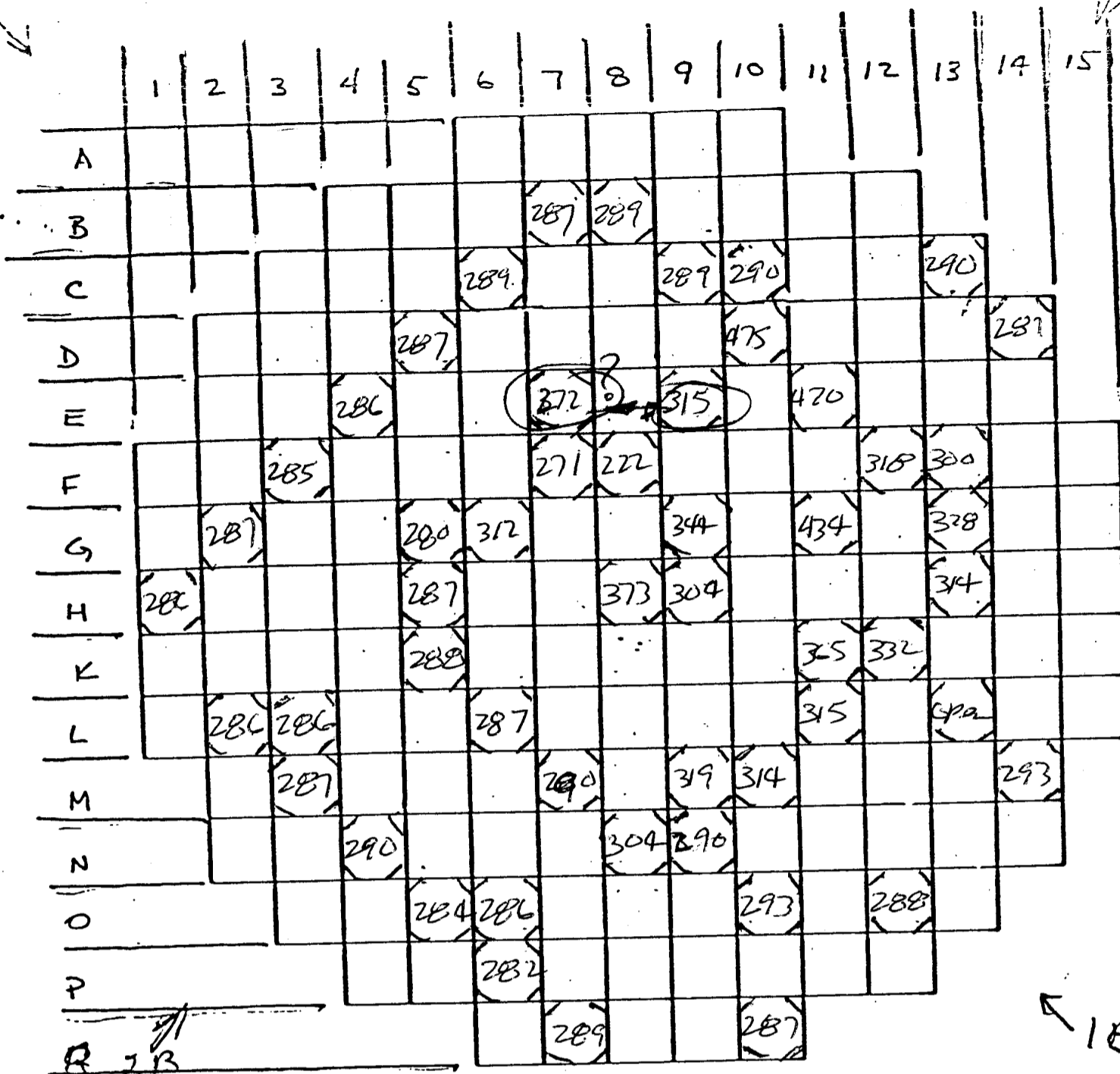


FIGURE 43-

A out

2A

1A



1B

Date 4-2-79

B out

Time 1700

Press. Pressure 1000

TA inlet 280

TB inlet 278

T pressure 564

L Pressurizer 212

Level Press SG A 287

Level Press SG B 285

Letdown Flow

Did not have other data at this time

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT

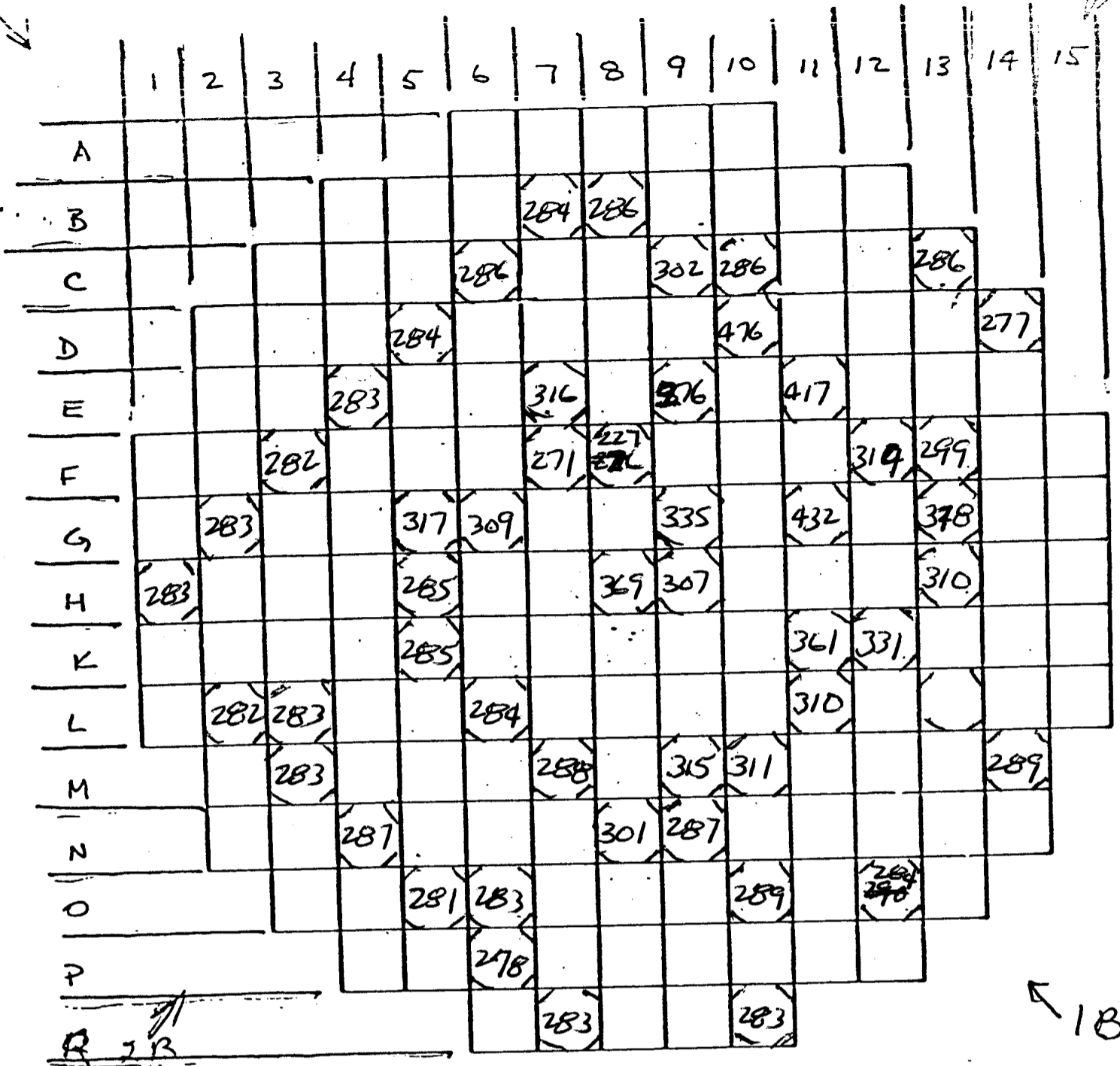


FIGURE 43-

A out

2A

1A



1B

Date 4/2/79

B out

Time 1920

Press. Pressure 949

TA inlet _____

TB inlet _____

T pressure 559

L pressurizer _____

Press SGA _____

Press SGB _____

Letdown Flow _____

206 Bubble size - air-ft

MATC 43

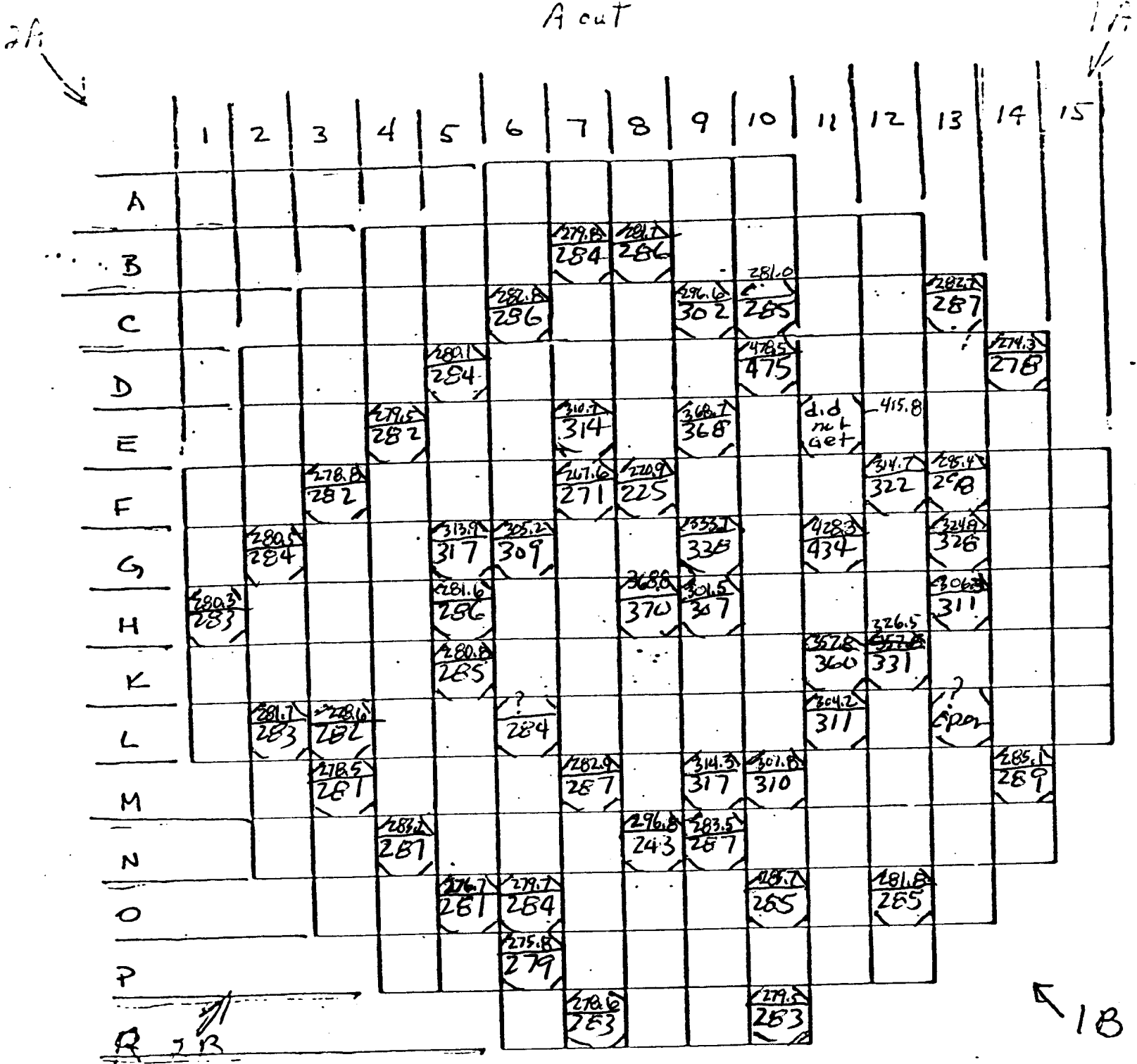
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43-

Note: These are the only readings available from computer.



Date 4/2/79
 Time 2130
 Press. Pressure 1026
 T_A inlet 275
 T_B inlet 277
 T pressure 553
 L pressurizer 239
 Press SGA _____
 Press SGB _____
 Le fdown Flow _____

Temp Taken 4/2 in evening
 Independent of Computer
 Time pm _____

B out
 H₂ Recomb. Conc 2.2%
 Recomb. Temp. Raised to 1300°F
 Calculation changed.



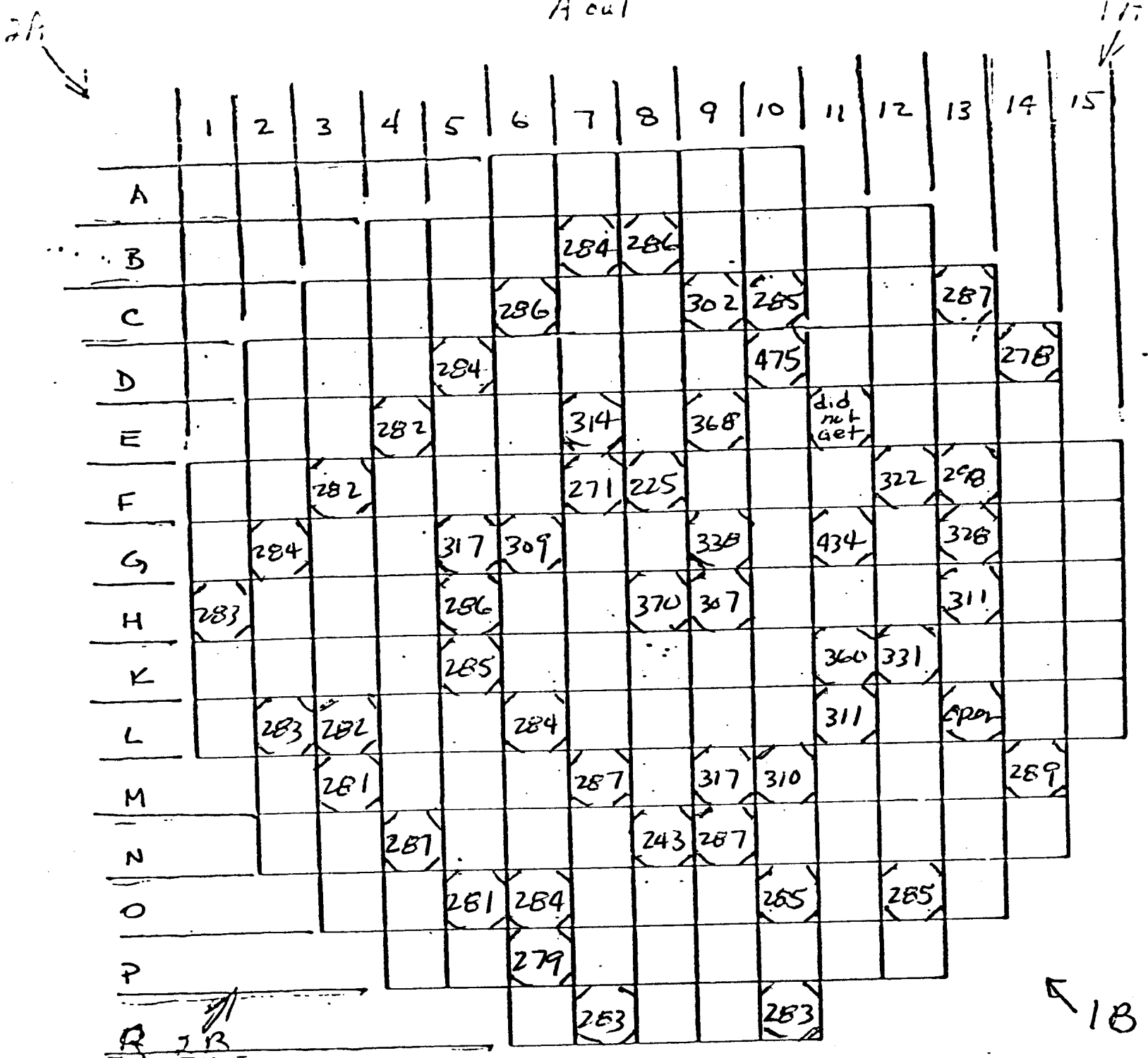
INDEPENDENT READINGS
 LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43

SGA level 33.8"
 SGB level 88.2"
 Temp. T_A Inlet 277.1
 T_B Inlet 275.3
 Primary Pressure L_B 1033
 L_A 1026
 Press. Temp 553.7
 Press. Level 240

A out



Date 4/2/79

Time 2130

Press. Pressure 1026

T_A inlet 275

T_B inlet 277

T pressure 563

L pressurizer 239

Press SGA _____

Press SGB _____

Letdown Flow _____

B out

H₂ Recomb. Core 2.2%

Recomb. Temp. Raised to 1300°F

Calculation changed.

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT

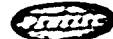
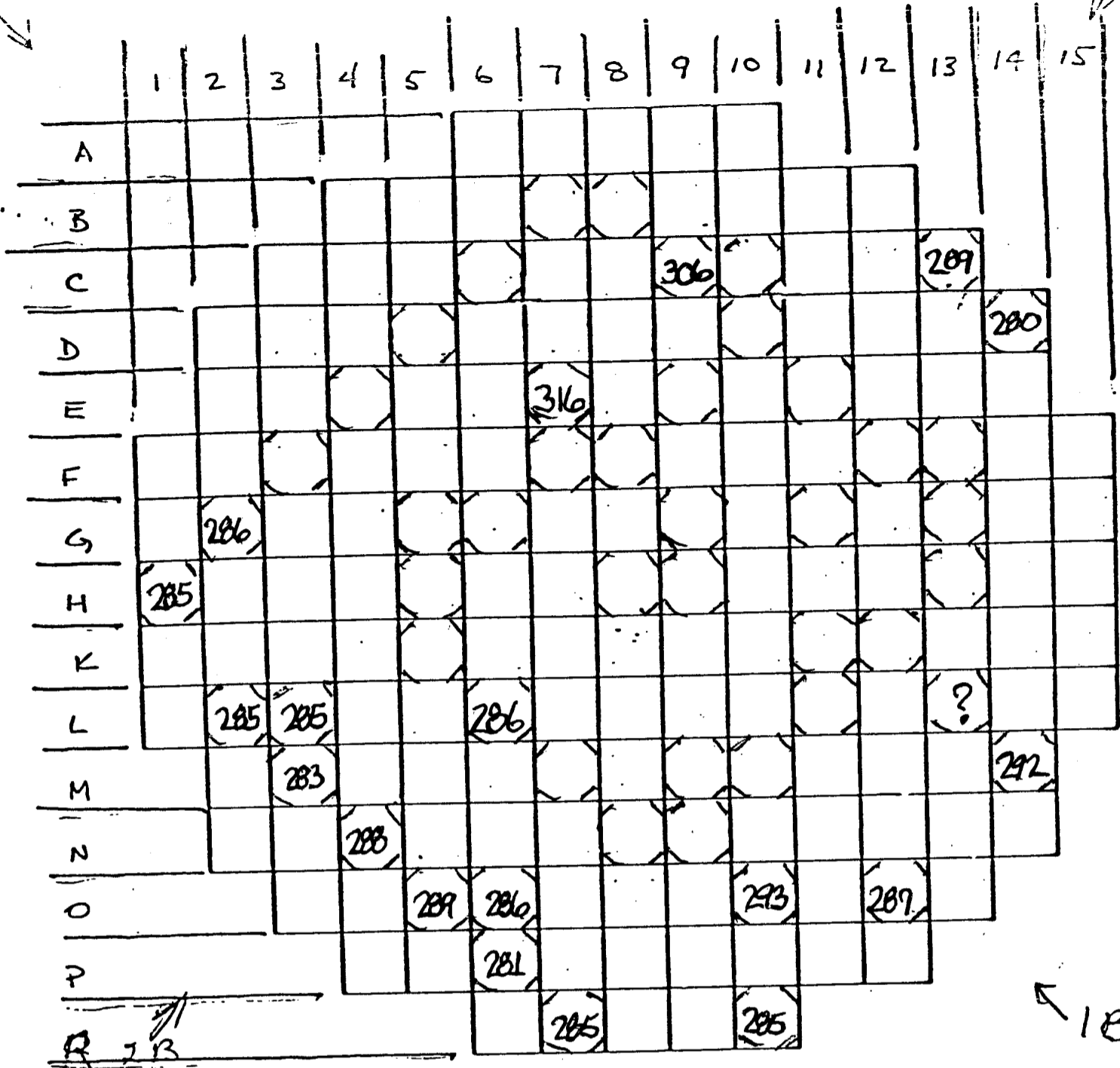


FIGURE 4.3

2A ↘

A out

1A ↙



1B ↙

Date 4/23/79
 Time 0215 0200

B out

Press. Pressure 975
 TA inlet 279
 TB inlet 277
 T pressure 552
 L pressurizer 202
 Press SGA _____
 Press SGB _____
 Letdown Flow 1.9 gpm

COMPUTER BEING USED TO RUN OTHER PROGRAMS - UNABLE TO GET FULL TEMPERATURE ARRAY AT THIS TIME.

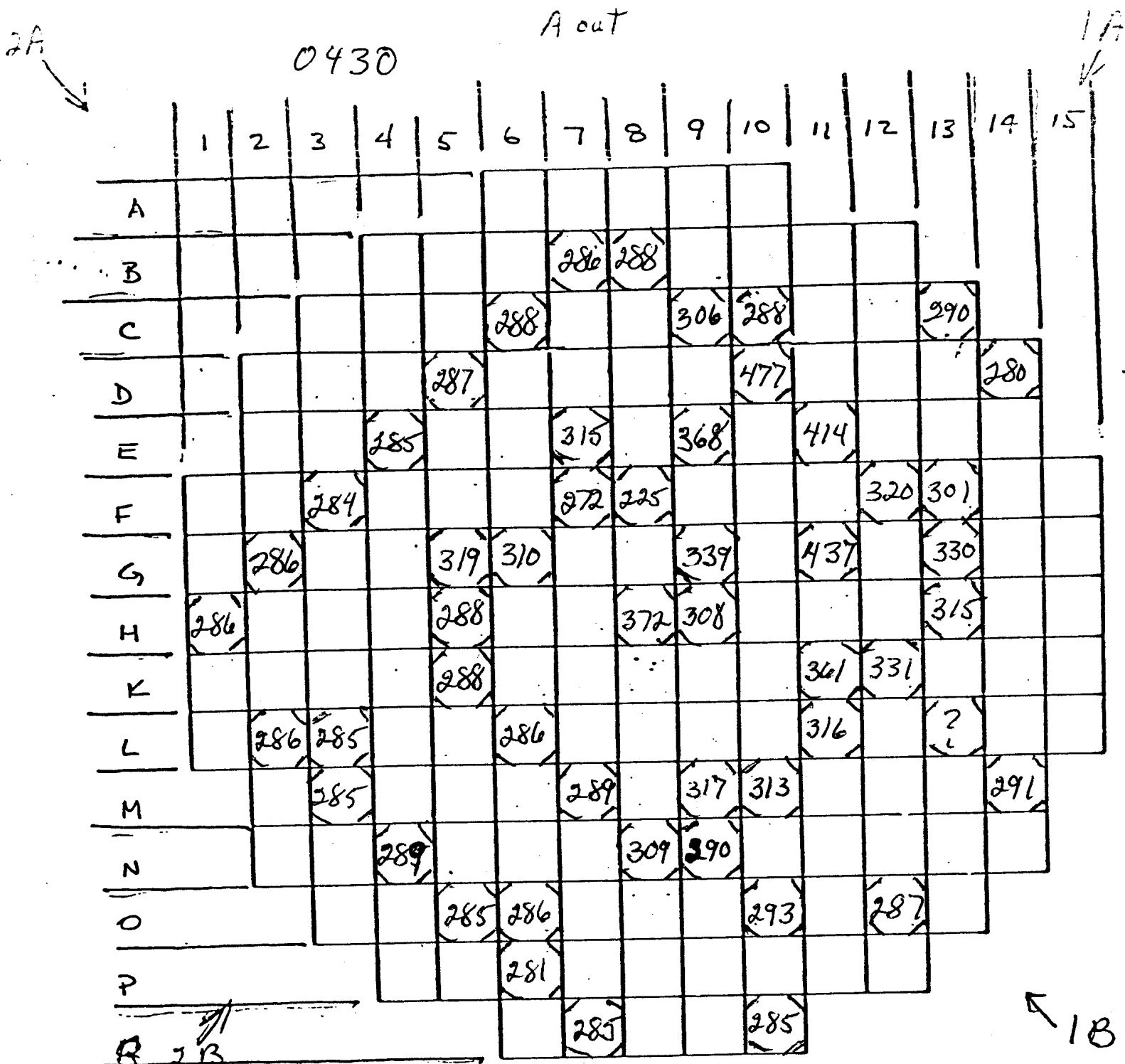
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43-

-1.1 - Cont. Pressure
 1.97 - H₂ in containment
 47 cu.ft. - last info 0000 gas in RV



Date 4/3/79 B out

Time 0500

Press. Pressure 995

TA inlet 280

TB inlet 278

T pressure 551

L Pressurizer 202

Press SGA 31

Press SGB 26

Letdown Flow 1.7 gpm computer pintout

W Decay Tank press 87 & 86

MU Tank press 6 psi

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

FIGURE 43-

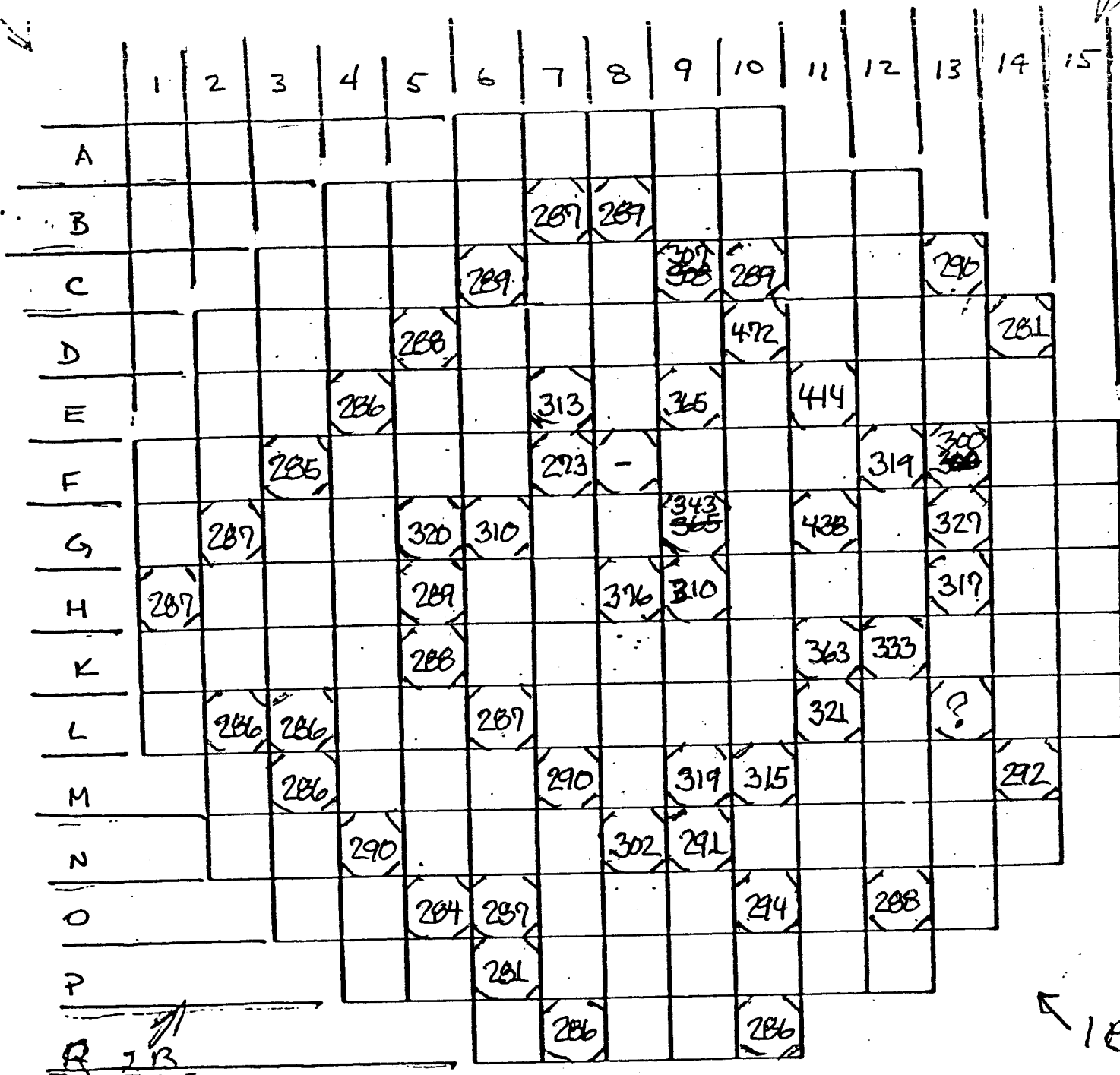
Cont. Press 10.1 psie

H₂ Cont 1.97

A out

1A

2A



B out

1B

Date 4/3/79

Time 0615

Press. Pressure 1046

TA inlet 280

TB inlet 278

T pressure 556

L Pressurizer 199

Press SGA _____

Press SGB _____

Letdown Flow 1.7 Computer
19.5 Calculated (Has been for write)
19gpm

- 1.1 - Containment Pressure
118 GFT - 0523 - Bubble in Mix Vessel

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT

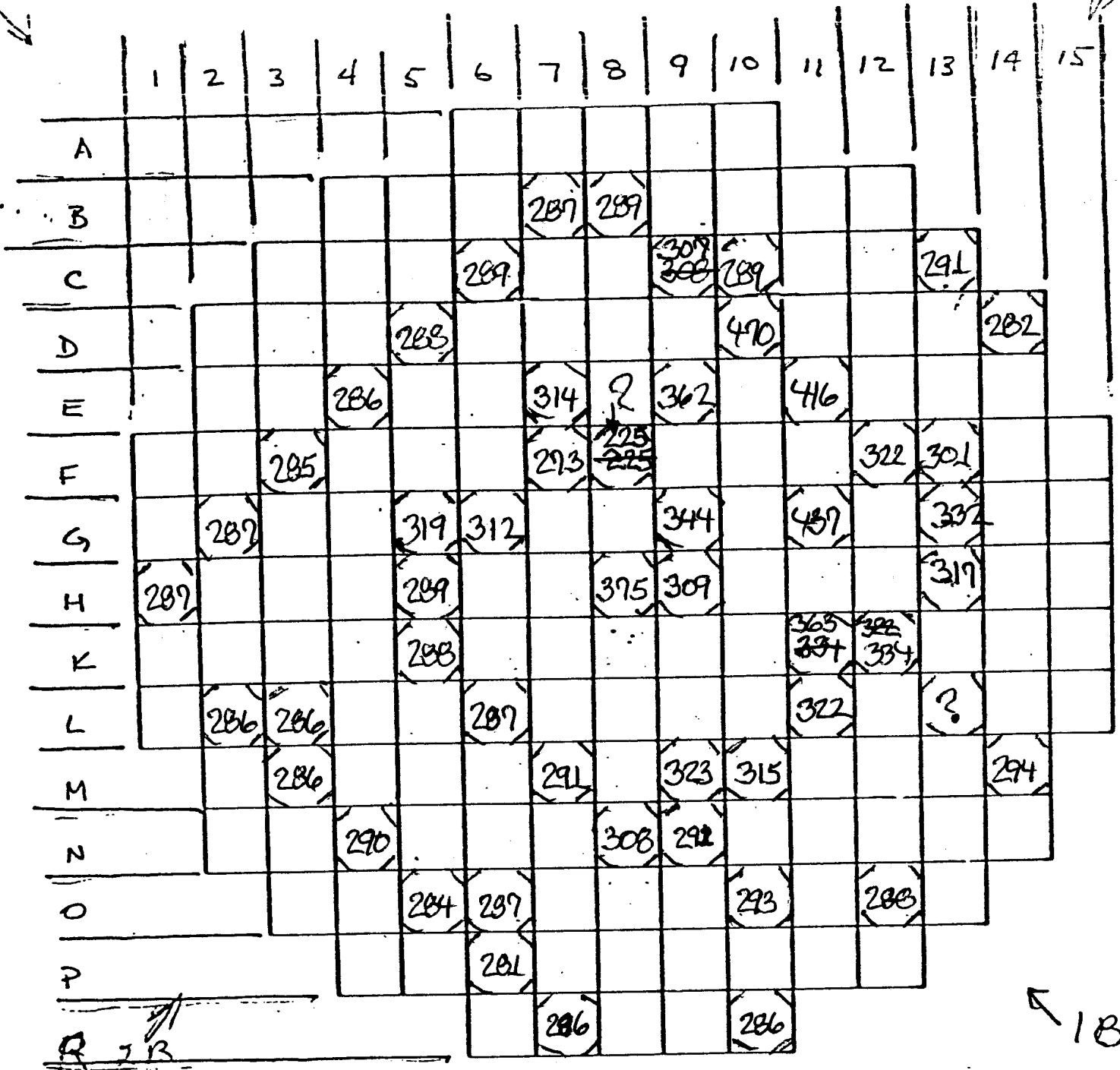


FIGURE 43-

2A ↙

A out

1A ↘



↖ 1B

Date 4/3/79

B out

Time 0730

Press. Pressure 1076

TA inlet 280

TB inlet 278

T pressure 556

L Pressurizer 200

Press SGA _____

Press SGB _____

Letdown Flow 19.5 ^{gpm} Calculated

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT



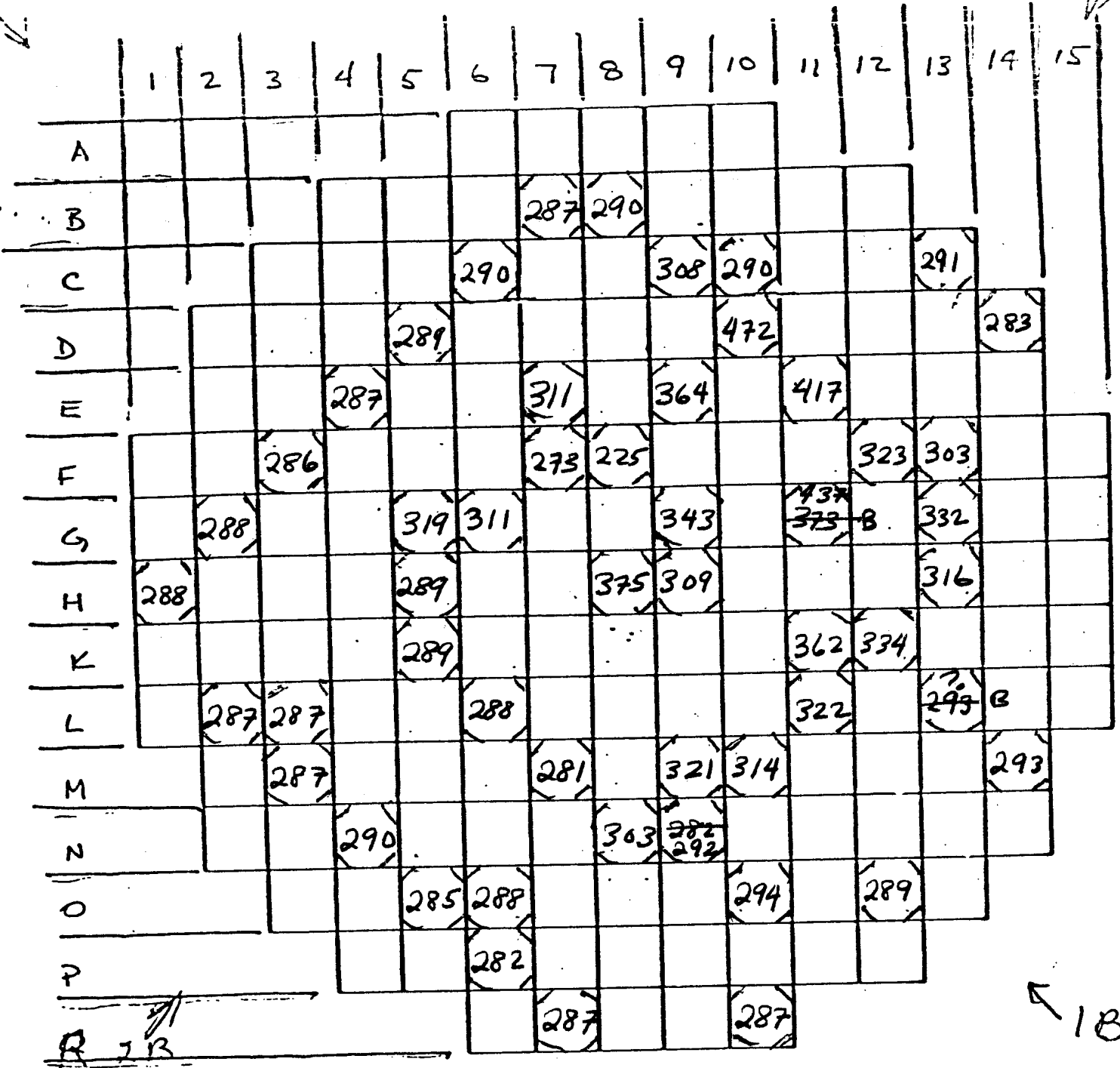
FIGURE 43-

- I pag - Cont press
1.97 H₂ = Cont H₂
118 Cu ft - bubble calc. @ 0523

2A ↘

A out

1 ft ↙



Date 4/3/79

B out

Time 1015

Press. Pressure 1030 psig

T_A inlet 281 F

T_B inlet 279 F

T_{pressure} 555 F

L_{pressurizer} 230"

Press SGA _____

Press SGB _____

Letdown Flow calc 19 gpm

P_{cont} -1.1 psig

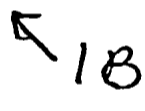
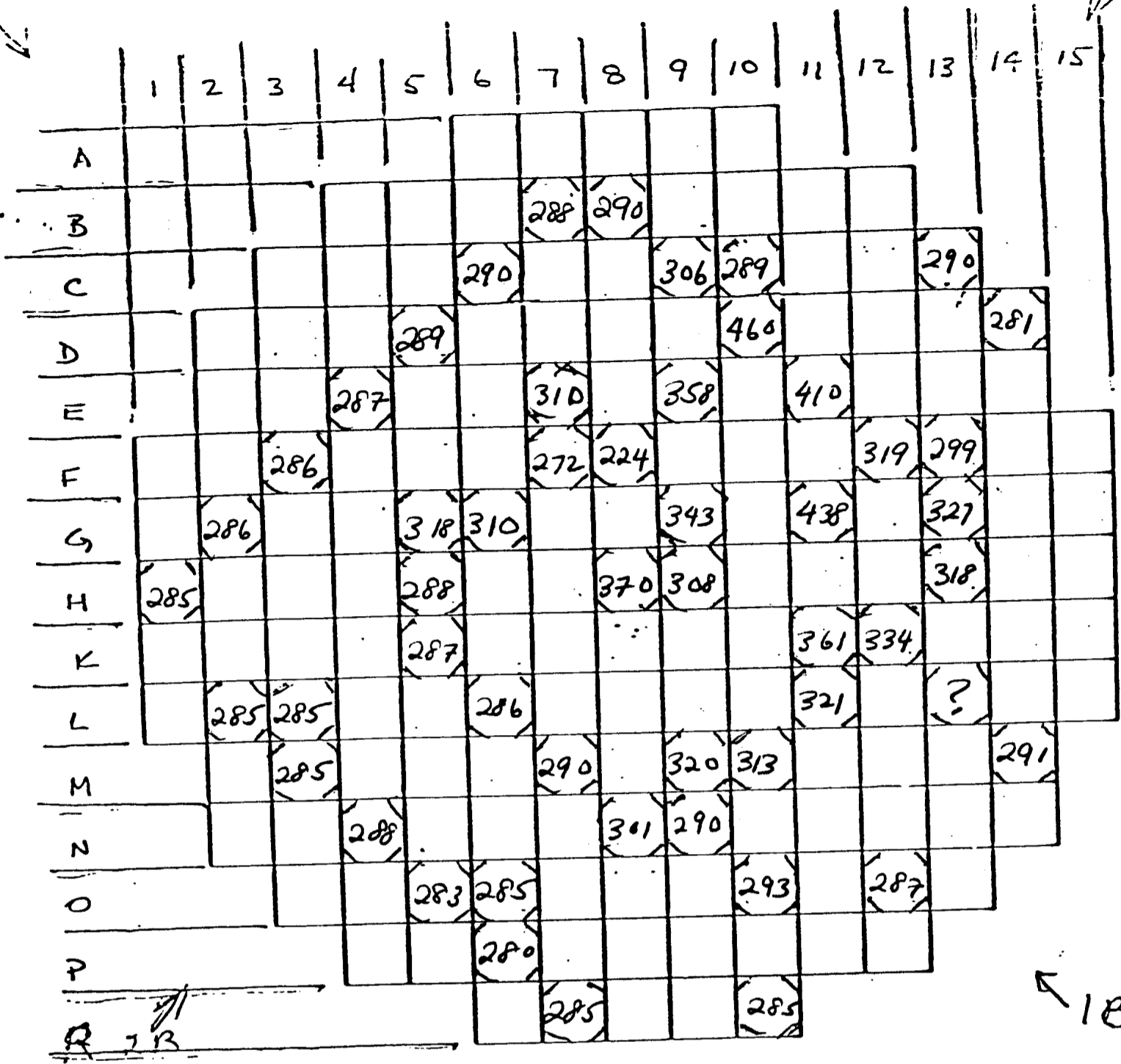
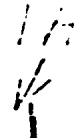
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43-

A out



Date 4/3/79

B out

Time 1500

Press. Pressure 995 psig

TA inlet 279 F

TB inlet 277 F

T pressure 8234 550 F

L pressurizer 550 234"

Press SGA _____

Press SGB _____

Letdown Flow 19.5 gpm cold

Press containment -1.1 psig

WQDT press = 85 psig both
1100 reading

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

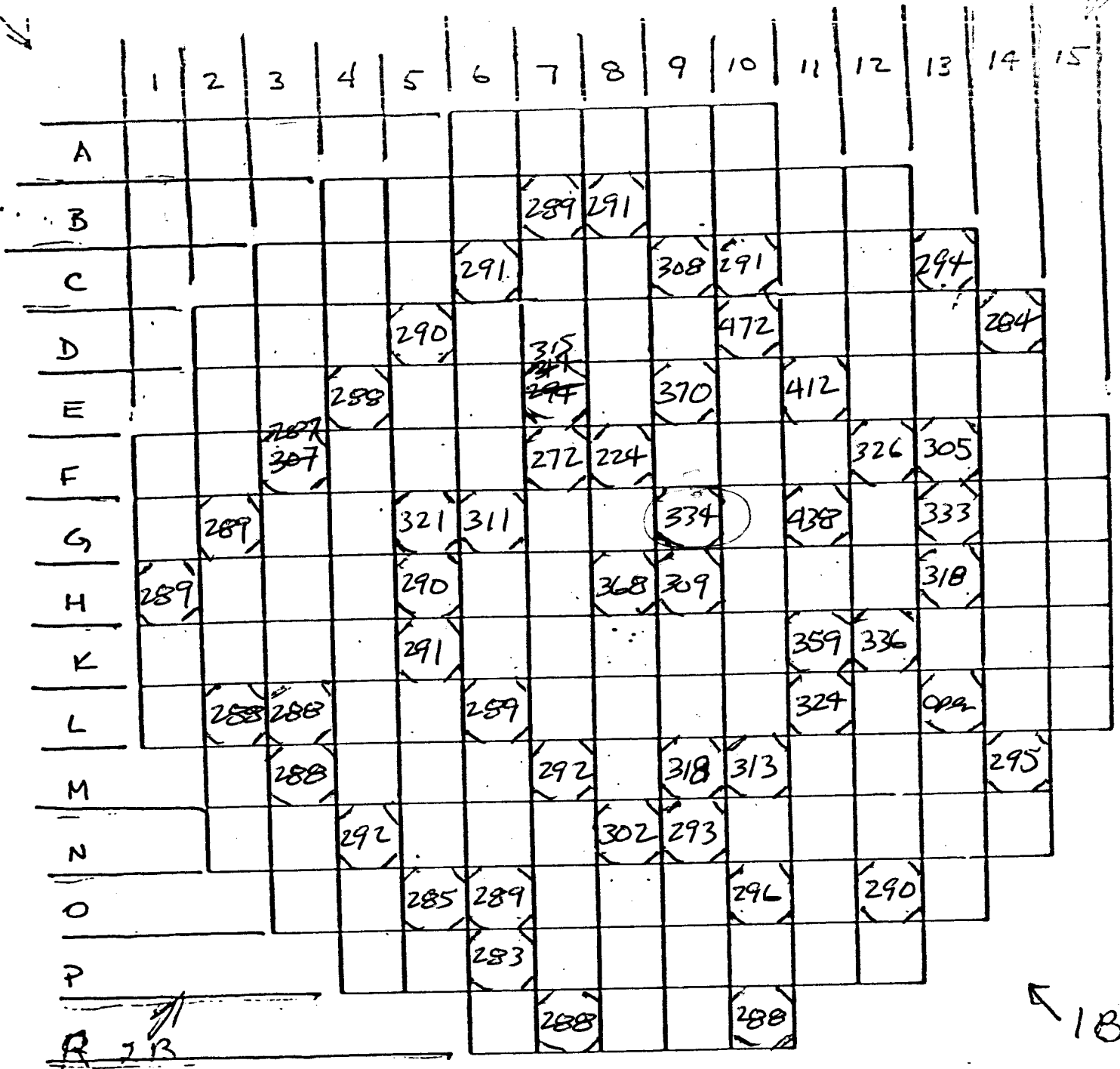


FIGURE 4

A cut

2A

1A



18

Date 70 4/3/79

B out

Time 1700

Press. Pressure 979

H₂ Conc → 2.23 %

Bubble @ 1600 GZ. Cu. Ft.

TA inlet 282

TB inlet 280

T pressure 550

L Pressurizer 182

Press SGA _____

Press SGB _____

Letdown Flow _____

Cond. Press - 1.1

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT

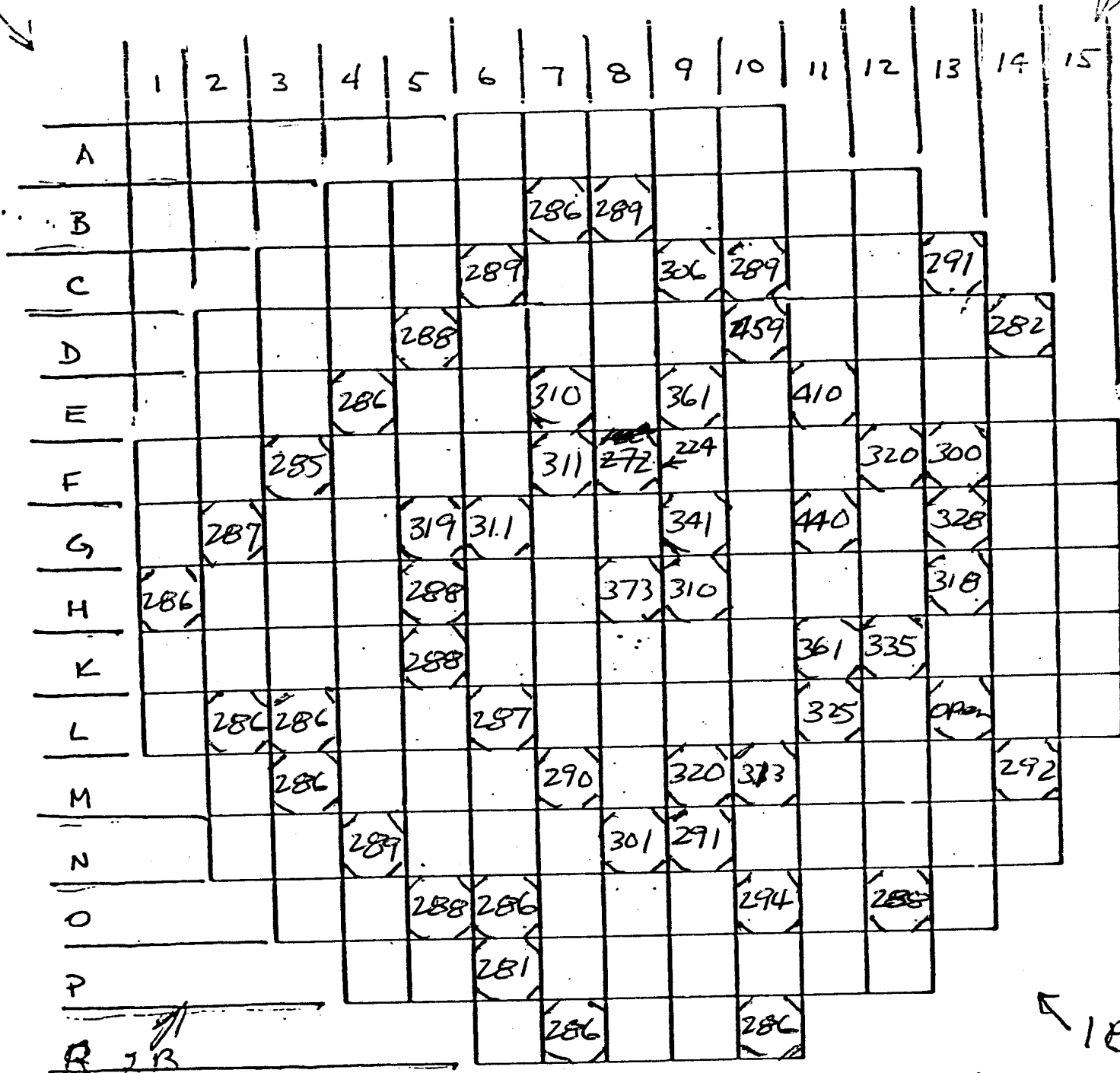


FIGURE 43-

2A ↘

A out

1A ↙



↖ 18

Date 4/3/79
Time 1930

B out

Press. Pressure 1025

TA inlet 280

TB inlet 287

T pressure 554

L pressurizer 233

Press SGA _____ L 88

Press SGB _____ L 84

Letdown Flow 19.5

Cont. Press -1.2

H₂ Conc. 1.95

LOCATION OF FUEL ASSEMBLIES CONTAINING
BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT



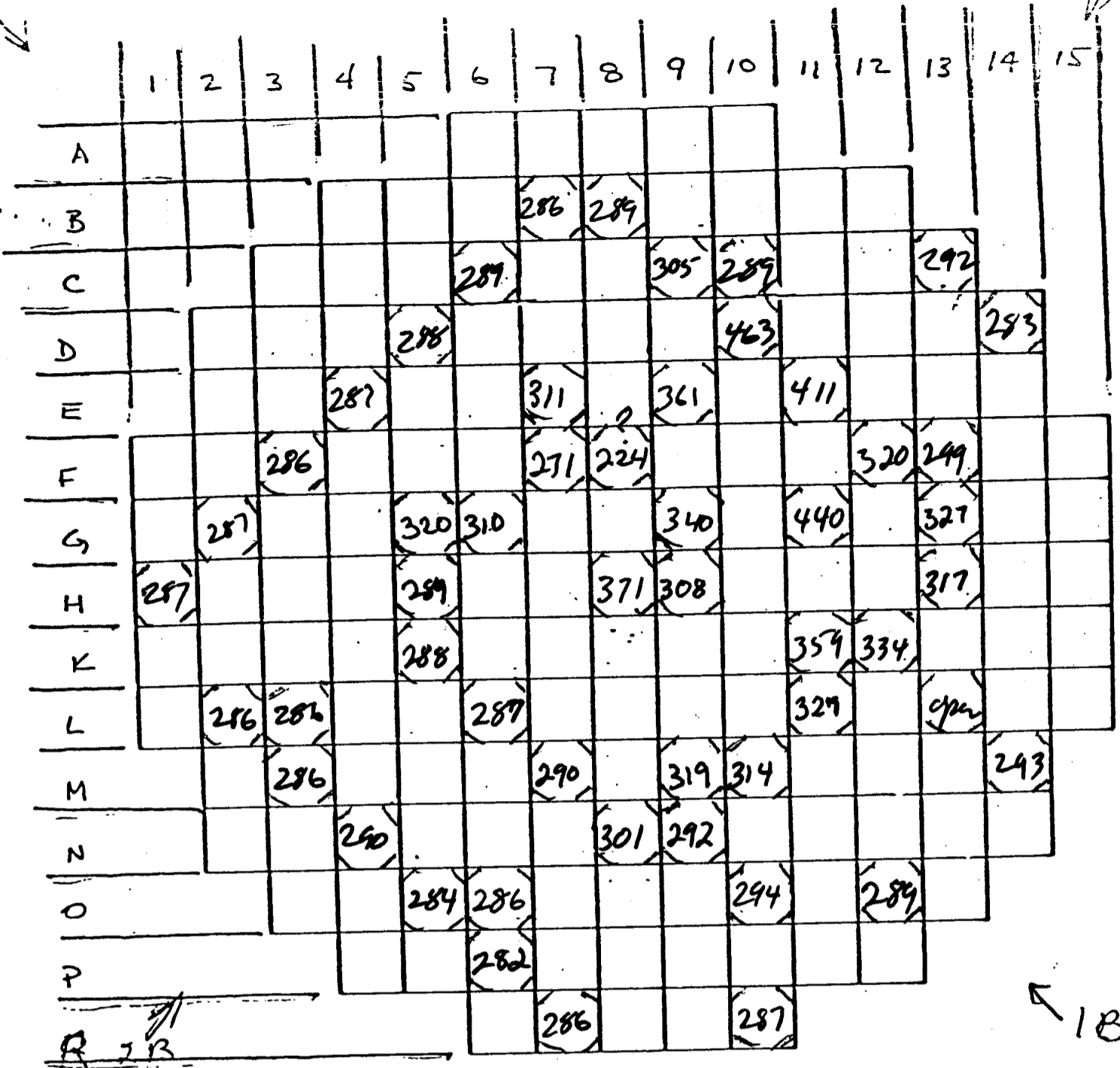
FIGURE 4.3-

82 Cas. FT. Ball. size

2A ↙

A out

1A ↙



1B ↙

Date 4/3/79

B out

Time 2100

Press. Pressure 1046

TA inlet 280

TB inlet 279
555

T pressure ~~██████████~~

L Pressurizer 223

Press SGA 97

Press SGB 84

Letdown Flow 19.5

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43-

Cond Pres neg 1.1

H₂ Conc. - 2.1170

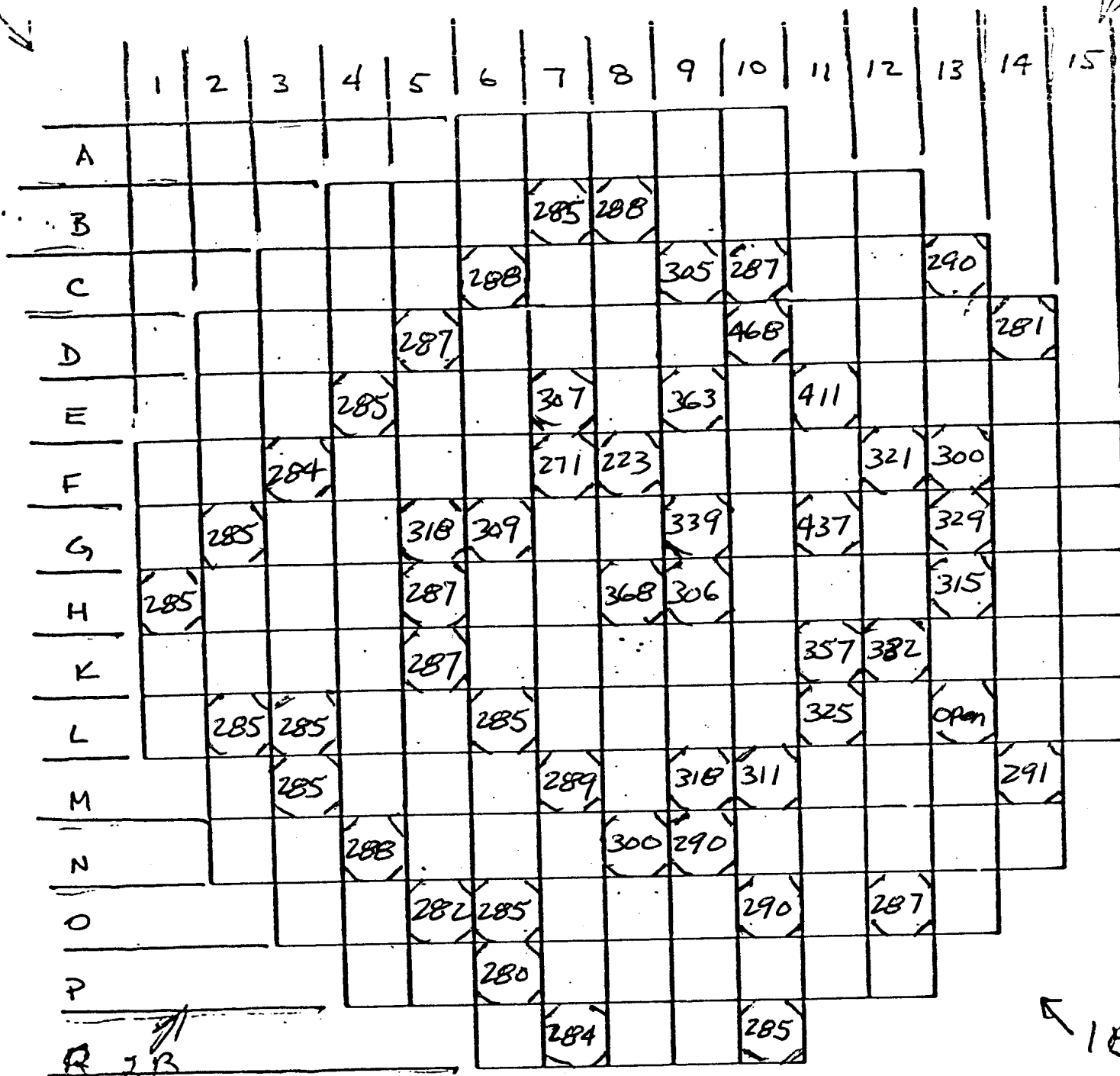
Bubble Cal. 82 CF

Cond. DT Inlet 48.6
Outlet 49.8

2A

A out

1A



18

Date 4/3/79

B out

Time 2300

Press. Pressure 1055

TA inlet 279

TB inlet 277

T pressure 556

L Pressurizer 221

Press SGA 98

Press SGB 83

Letdown Flow 19.5

Cont. - 1.1
Press.

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT



FIGURE 43-

H₂ 1.97%

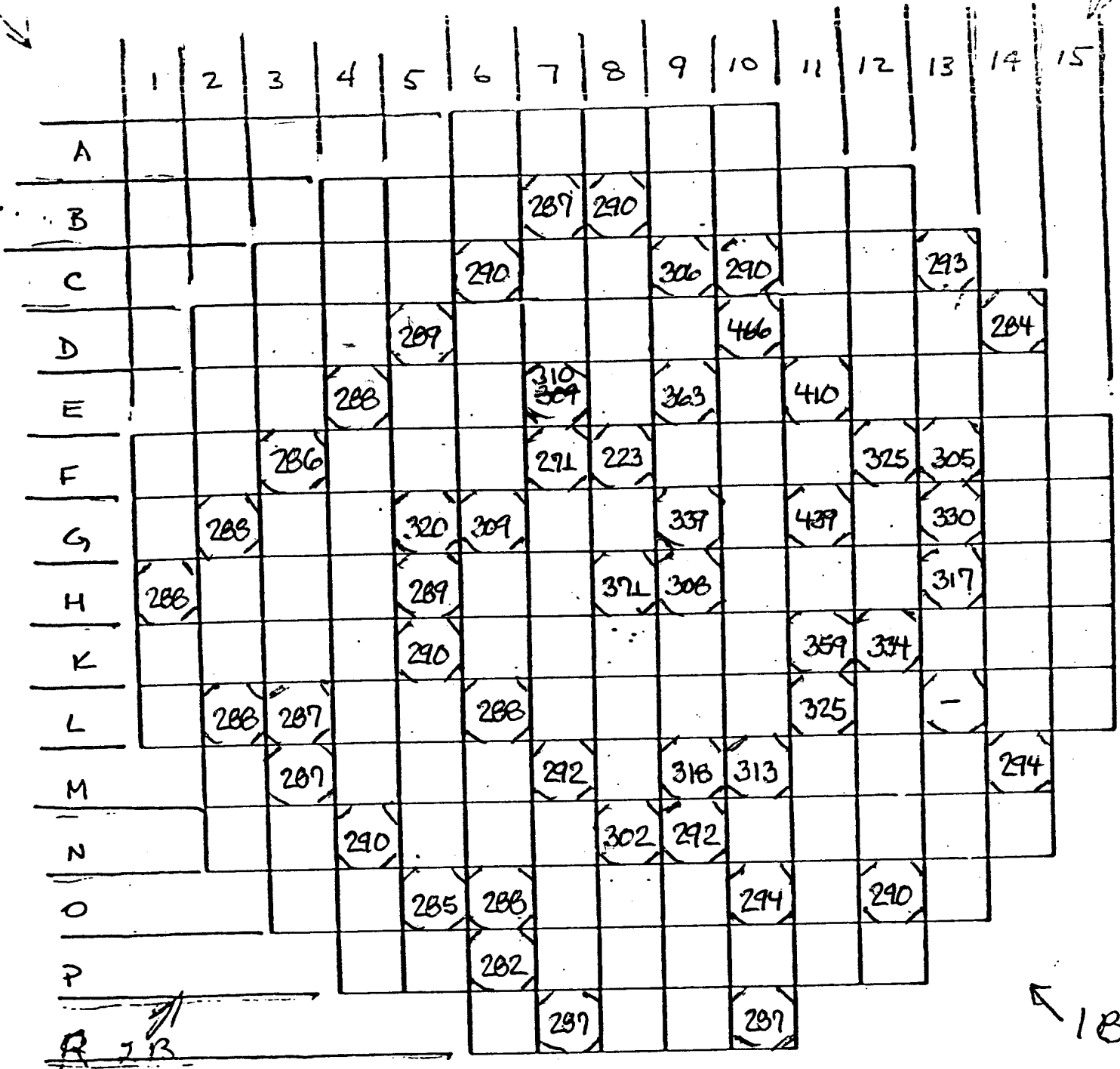
Bubble - 82 cm ft.

DG TP - 87 A
86 B

2A

A out

1A



Date ~~4/18~~ 4/4/79

B out

Time 0118

Working on machine

Press. Pressure 1053

TA inlet 282

TB inlet 280

T pressure 557

L pressurizer 210

Press SGA

Press SGB

Letdown Flow 19.5 Calculated

-1.1 - psig Cont Press

1.97 - H₂ Cont. Hydrogen

82 - Rx Bubble @ 1500
new calc. shortly

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT

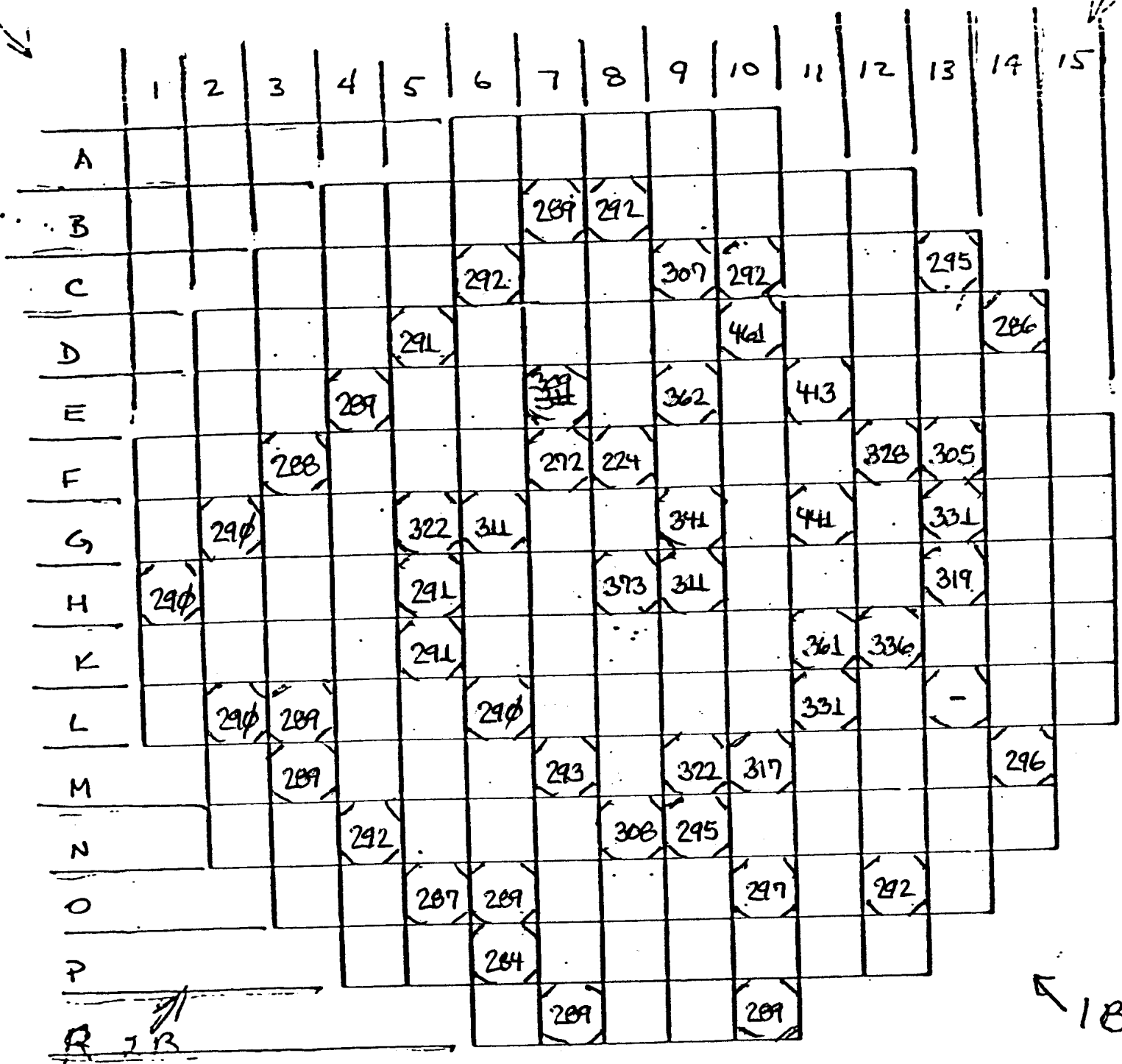


FIGURE 43

2A ↘

Acut

1A ↘



↖ 1B

Date 4/4/79 Thermocouple B out
 Time 0300 Temperatures
 Ø325

Press. 1066

TA inlet 283

TB inlet 281

T pressure 558

L pressurizer 235

Press SGA _____

Press SGB _____

Letdown Flow 15 gpm

-1.35 ^{mg} Cond. Press.
 -1.97 %H₂ Concentration -
 82 Cu. ft - old ~~sea~~ calculation

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UN

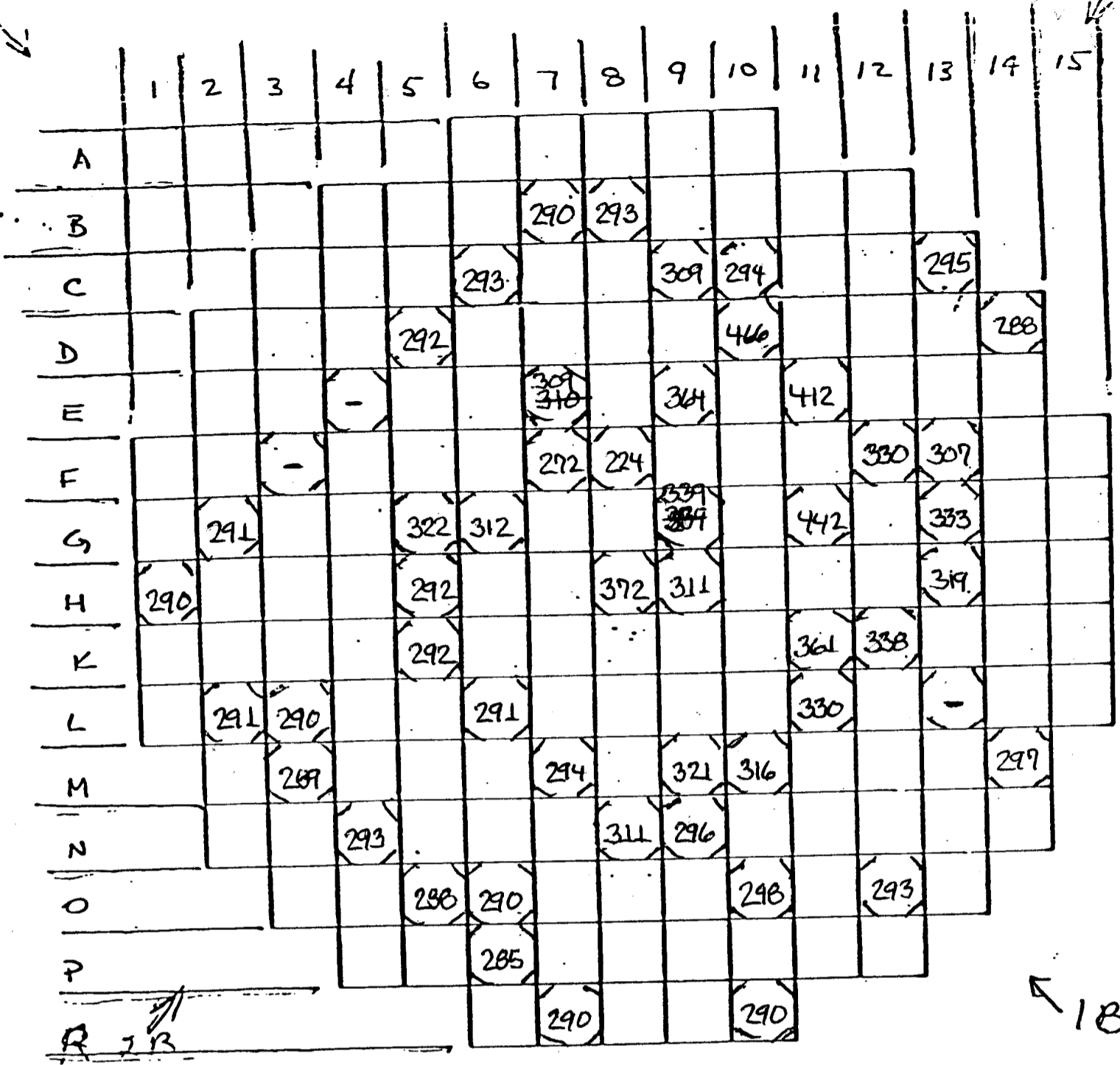


FIGURE 4

2A ↘

A cut

1A ↘



18 ↙

Date 4/4/79 B out
 Time 0500 / 0535 Thermocouple readings
 Press. 1070

TA inlet 284
 TB inlet 282
 T pressure 558
 L pressurizer 229
 Press SGA _____
 Press SGB _____
 Letdown Flow 15 gpm (calculated)

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE 4

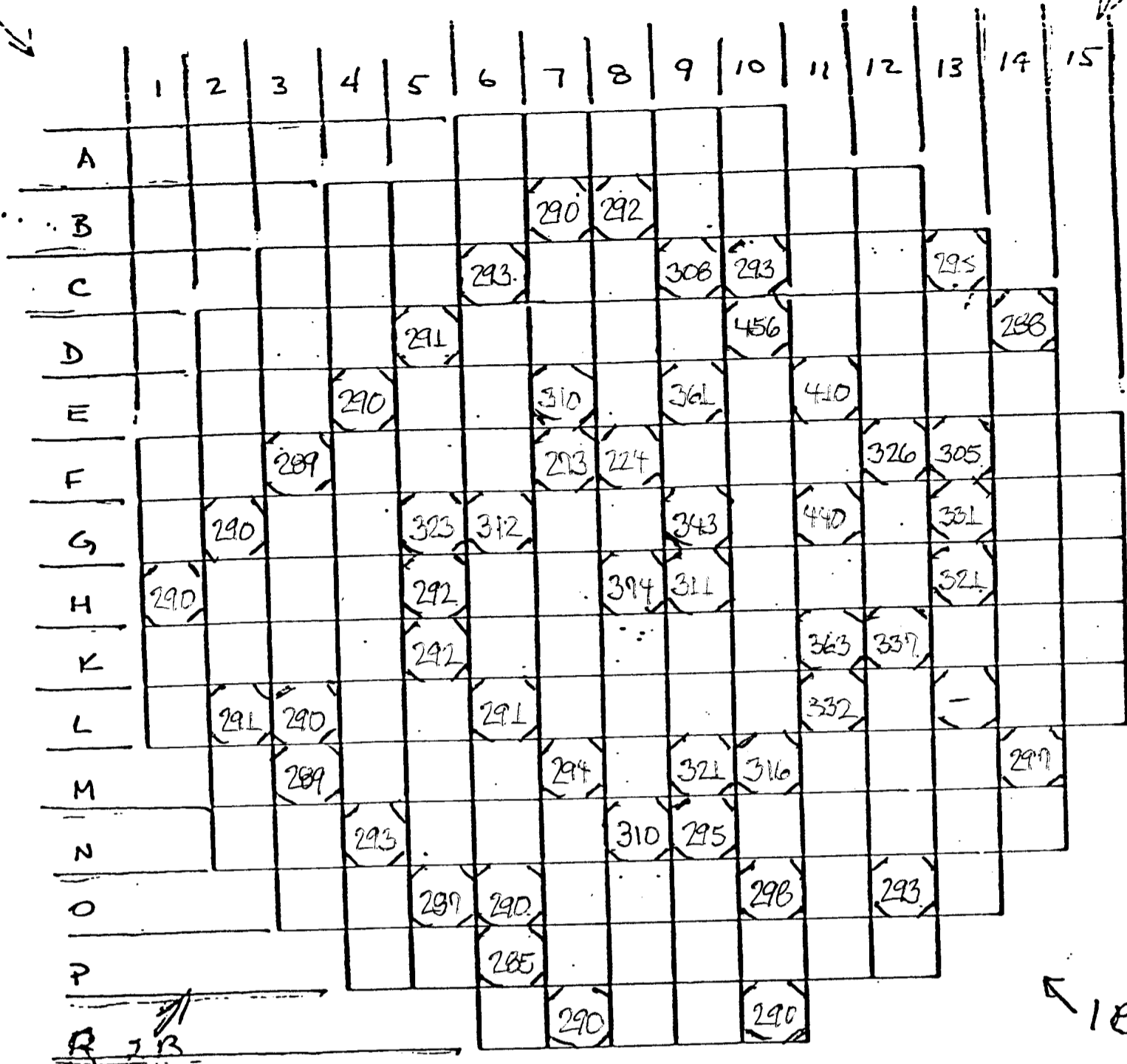
- 1.2 psig Containment Pressure
 2.0 L H₂ Containment

82 CW Ft. - 1500, 4/3/79 Calculation
 No new calculations expected due to ops. mode

2A ↘

A cut

1A ↙



↖ 1B

Date ~~0700~~ 4/4/79

B out

Time ~~0900~~

Press. Pressure 1093

TA inlet 284

TB inlet 282

T pressure 559

L pressurizer 220

Press SGA _____

Press SGB _____

Letdown Flow 15 gpm

-1.4% Cont pressure
 2.01% H₂ - Cont. H₂ level

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1

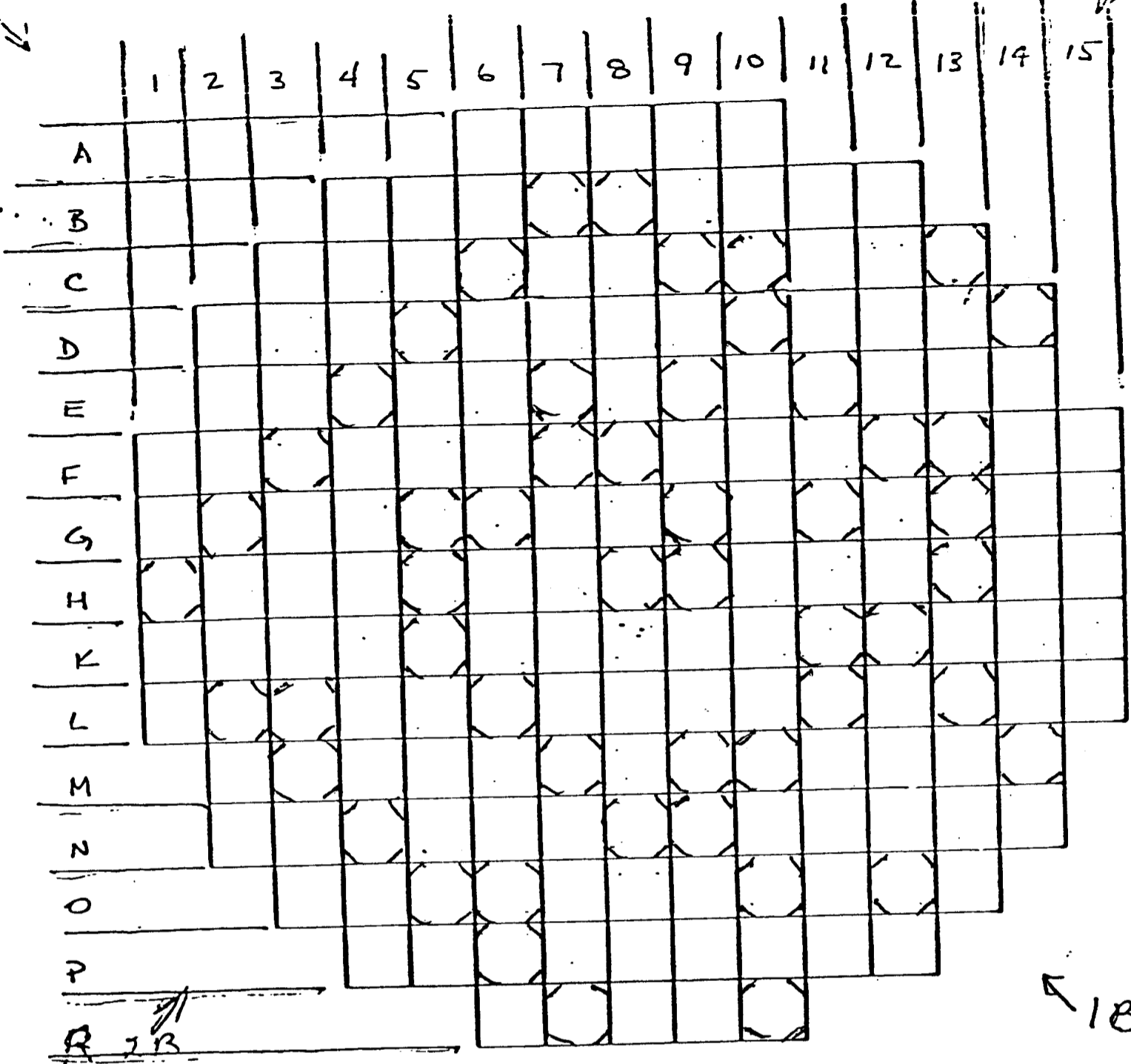


FIGURE 4

2A ↘

Acut

1A ↙



Date 4/4/79

Time 1000

Press. Pressure 1075 psig

TA inlet 283 F

TB inlet 280 F

T pressure 558 F

L pressurizer 200"

Press SGA _____

Press SGB _____

Leakdown Flow 19.5 gpm calculated

P_{cont} = 1.4 psig

H₂ 2.01% in containment 2230 4/3.

Reading off analyzer off recombiner outlet 1.77%

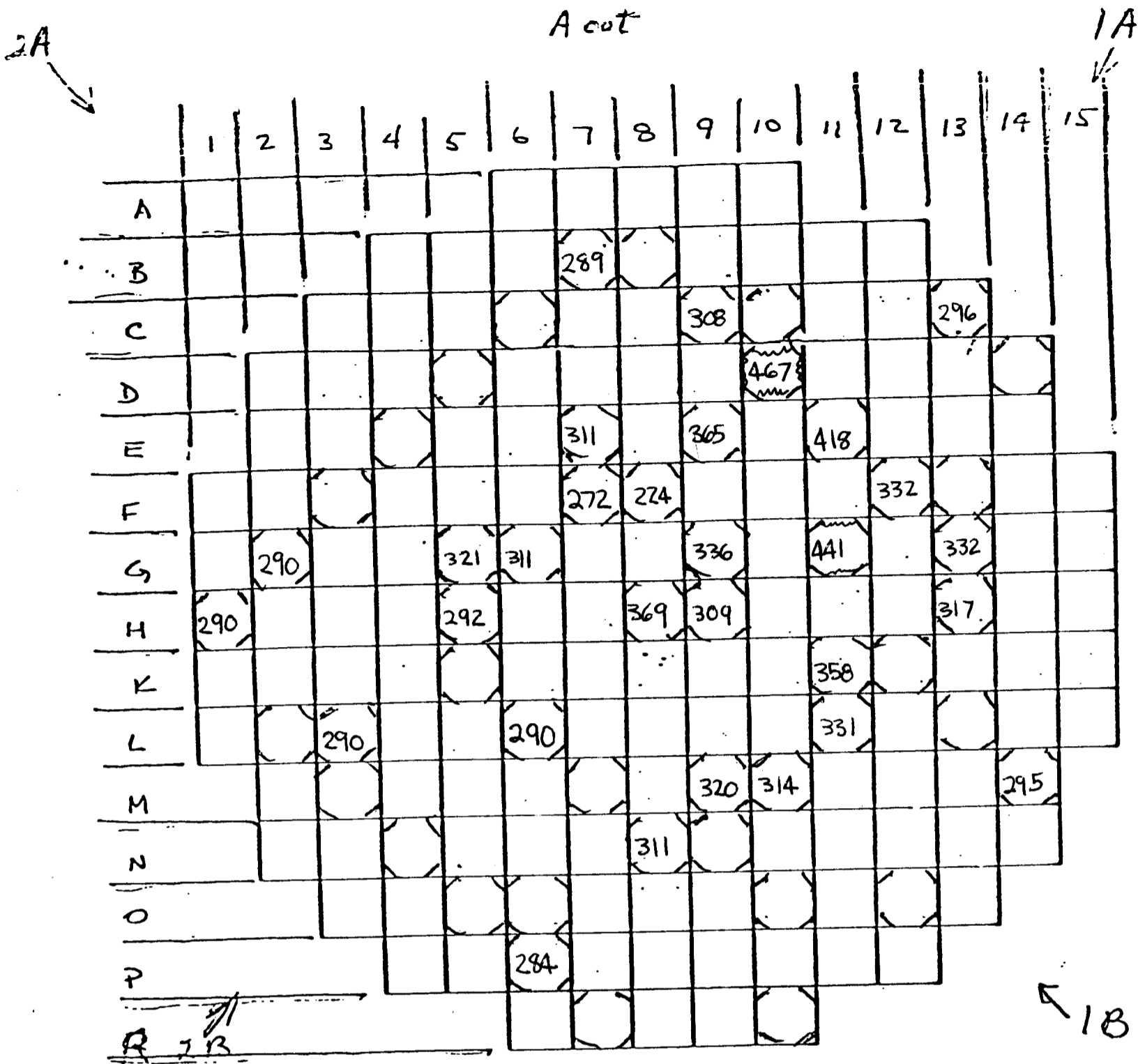
B out

NRR, B/W; GPU haven't decided on which 30 TC points they want read. plant computer use precludes getting more than 30. Upon agreement, TC's will be called in.

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UN



FIGURE 4



Date 4/4/79

B out

Time 1234

Press. Pressure 1031 PSIG

T_A inlet 283

T_B inlet 281

T pressure 555 F

L pressurizer 185" 355

Press SGA 2813

Press SGB 2811

Letdown Flow 19.5 gpm

Cont - 1.3 PSIG

H₂ 2.01%

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

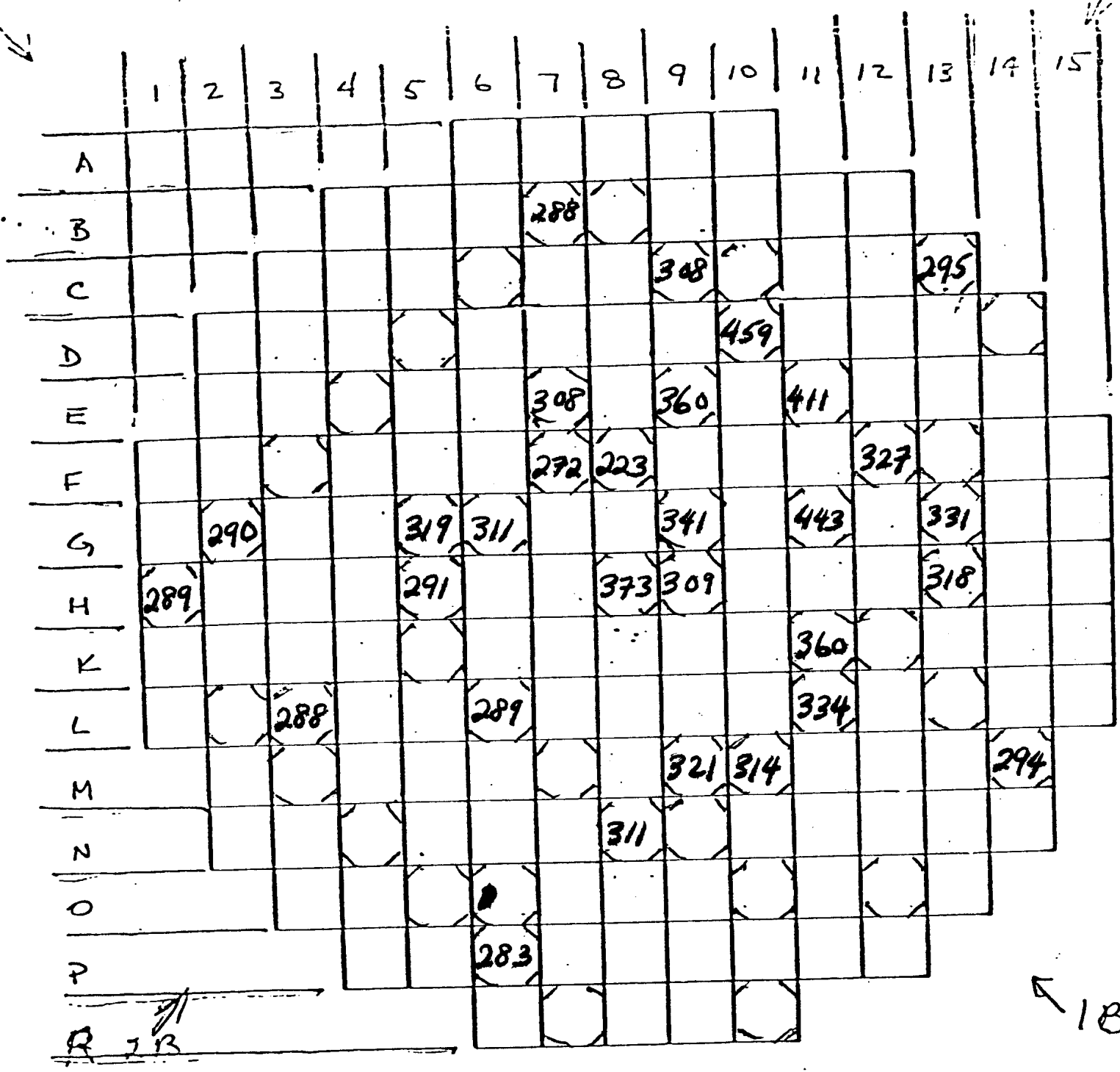


FIGURE 4

3A ↘

Acut

1A ↘



1B ↙

Date 4/4/79

B out

Time 1443

Press. Pressure 1017 psig

T_A inlet 283 F

T_B inlet 281 F

T pressure 562 F

L pressurizer 172"

Press SGA _____

Press SGB _____

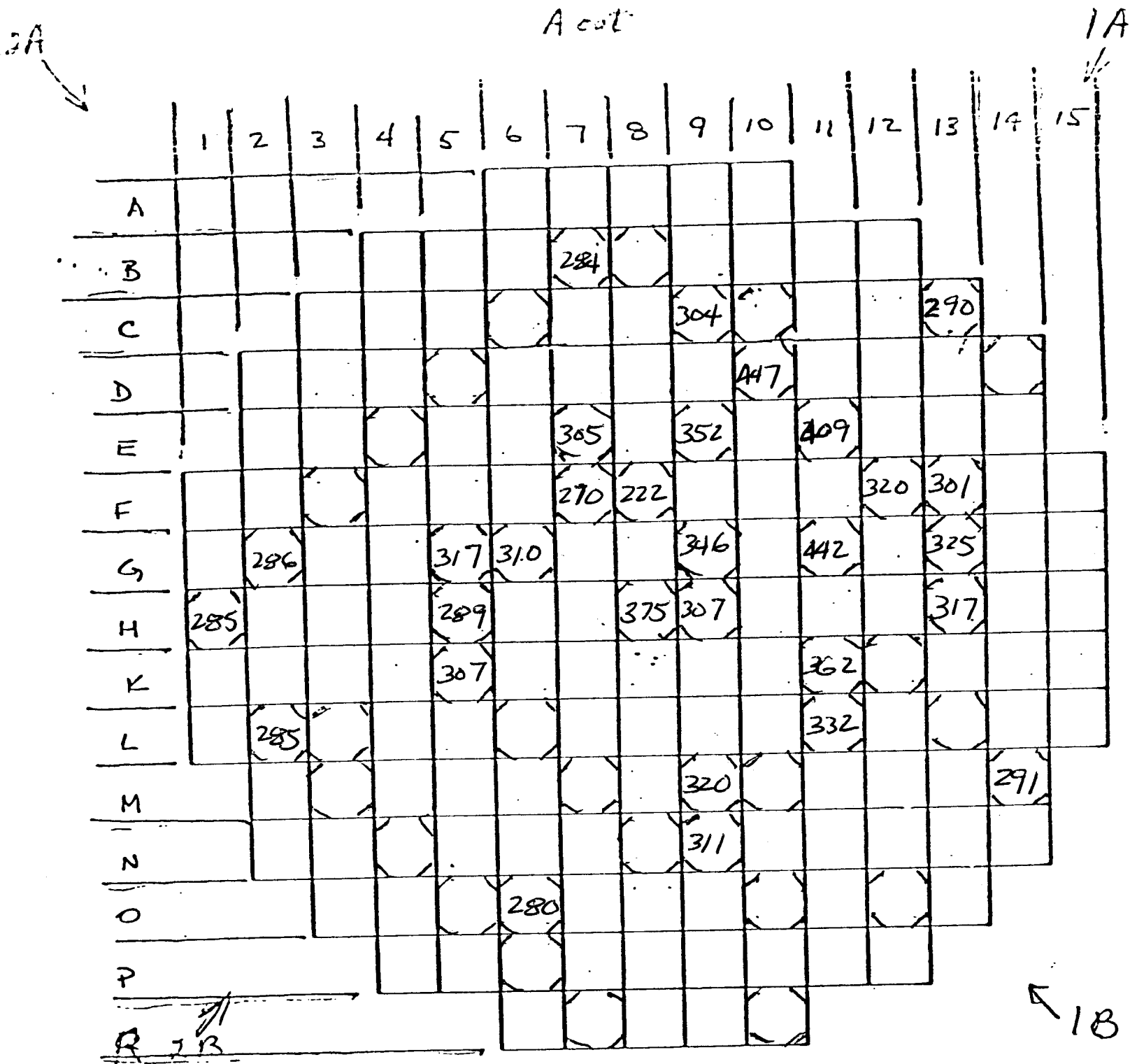
L_e down Flow 19.5 gpm

Pcont. -1.2 psig

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UN



FIGURE 4



Date 4/4/79

Time 1700

Press. Pressure 1050

TA inlet 282

TB inlet 279

T pressure 558

L Pressurizer 202

Press SGA 11

Press SGB 8

Letdown Flow 19.5 estimated

Cont. Press. 1.2

Cont. Temp. 86

B out

Bubble Size 82 Calculated 4/3/79

H₂ cont.

1.77 @ 1430 Calculated.

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 1

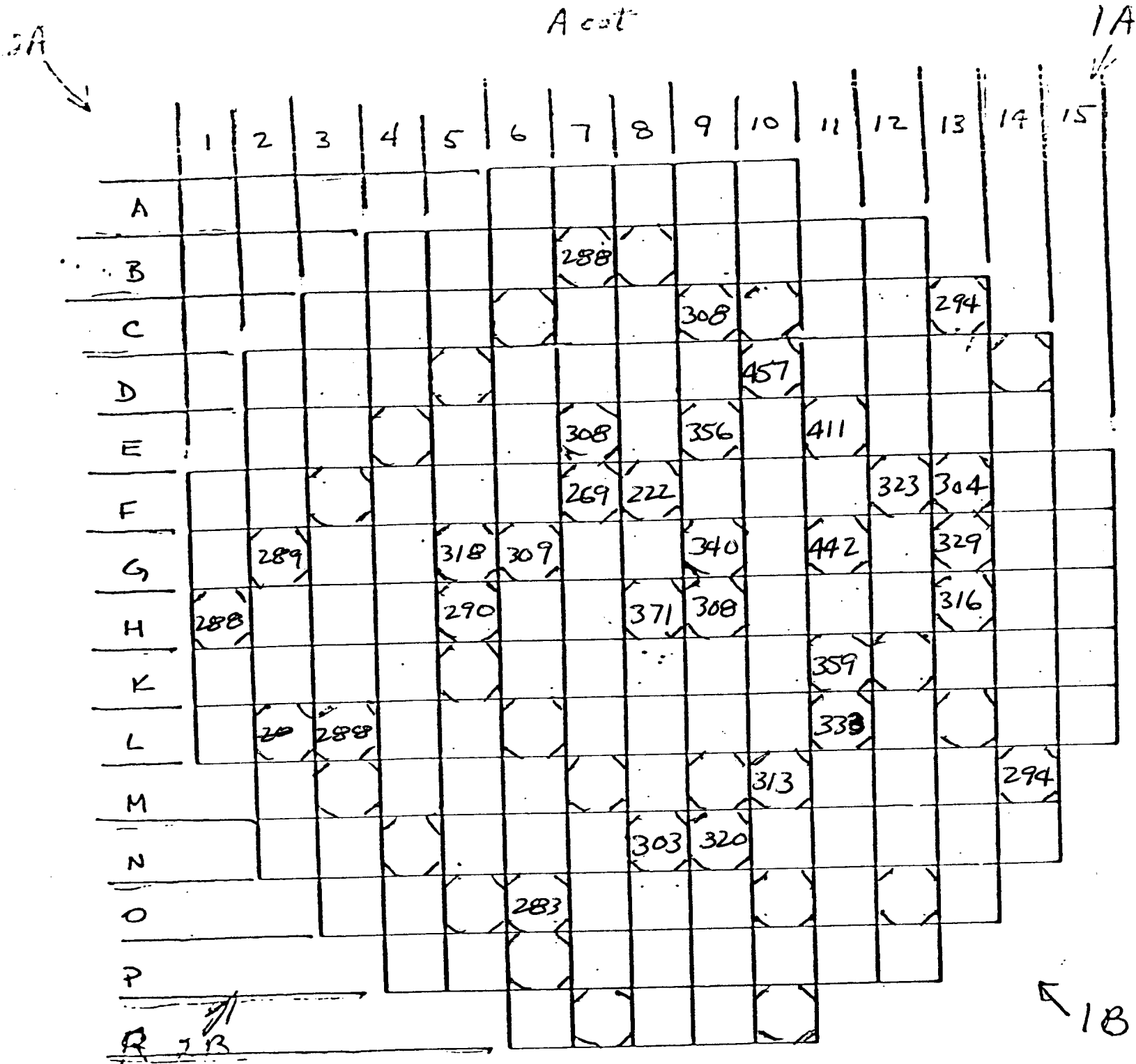


FIGURE 4

WGDT @ 0405-87A

86 B

Unit Header Press 1.6



Date 4-4-79
 Time 1900

B out

Press. Pressure 1050

H₂ - 1.99 @ 1710 - H₂ Recombination

JA inlet 282

TB inlet 278

T pressure 558

L pressurizer 202

Press SGA _____

Press SGB _____

Letdown Flow _____

Cont. Press. = 1.1

All other readings (parameters) unchanged from 1700 readings

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1

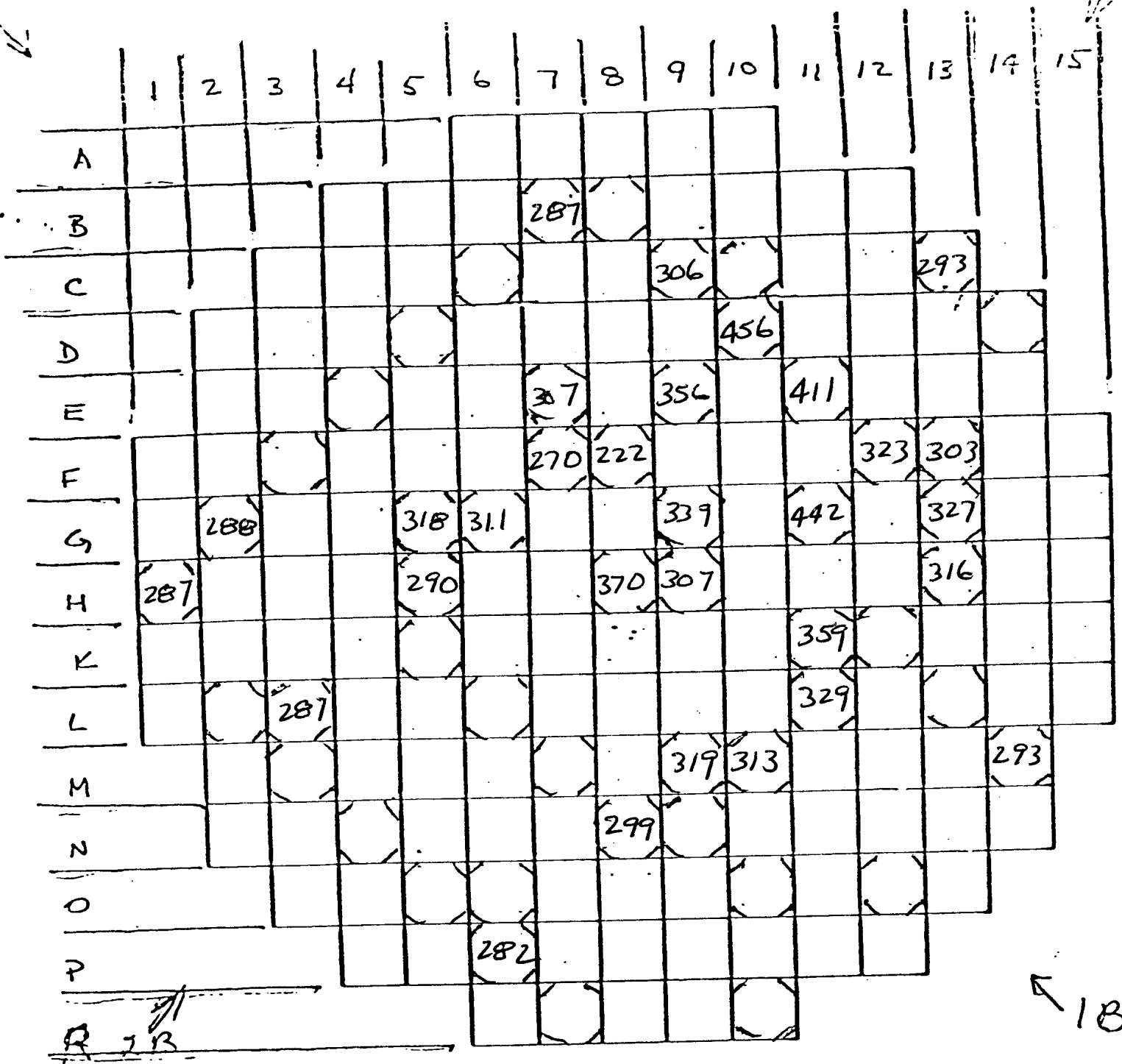


FIGURE 4

3A ↘

A out

1A ↙



Date 4/4/79

B out

Time 2100

Press. Pressure 1060

H₂ - 2.01%

T_A inlet 282

T_B inlet 278

T pressure 558

L pressurizer 225

Press SG A _____

Press SG B _____

Letdown Flow _____

~~Cont. Press~~ ~~Temp~~

Cont. Press. Temp. Water Level
 -1.1 86 3'4"

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1

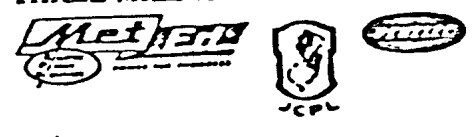
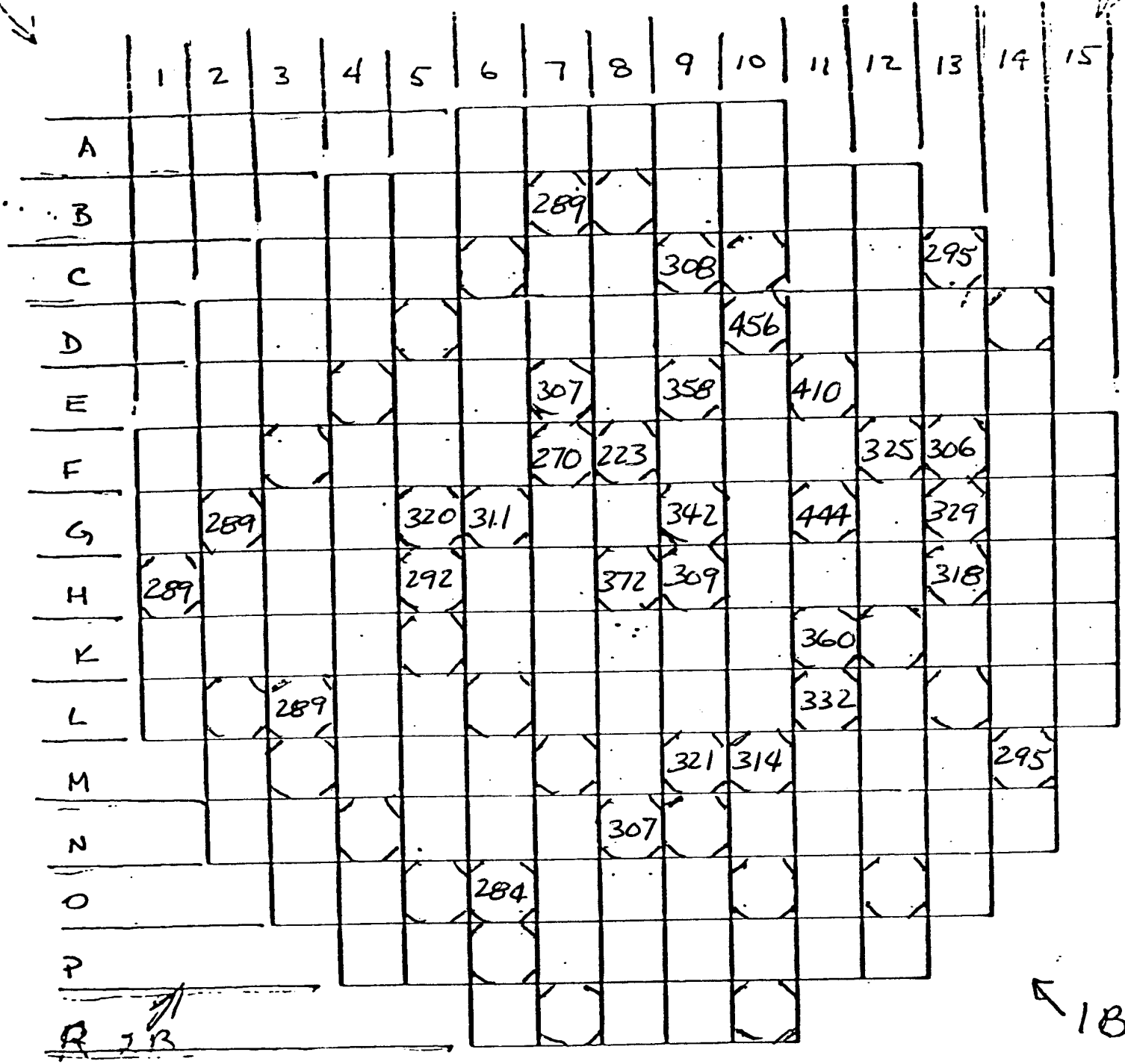


FIGURE 4

2A ↘

A cut

1A ↘



↖ 1B

Date 4/4/79
Time 2300

B out

Press. Pressure 1050

H₂ Recombined Inline
1.90% 2.01%

TA inlet 282

TB inlet 278

T pressure 558

L Pressurizer 220

Press SGA _____

Press SGB _____

Le tdown Flow _____

Cooldown Rate 1.6

Cont. Press 1.1 Tem. 86 Level 3' 4"

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT

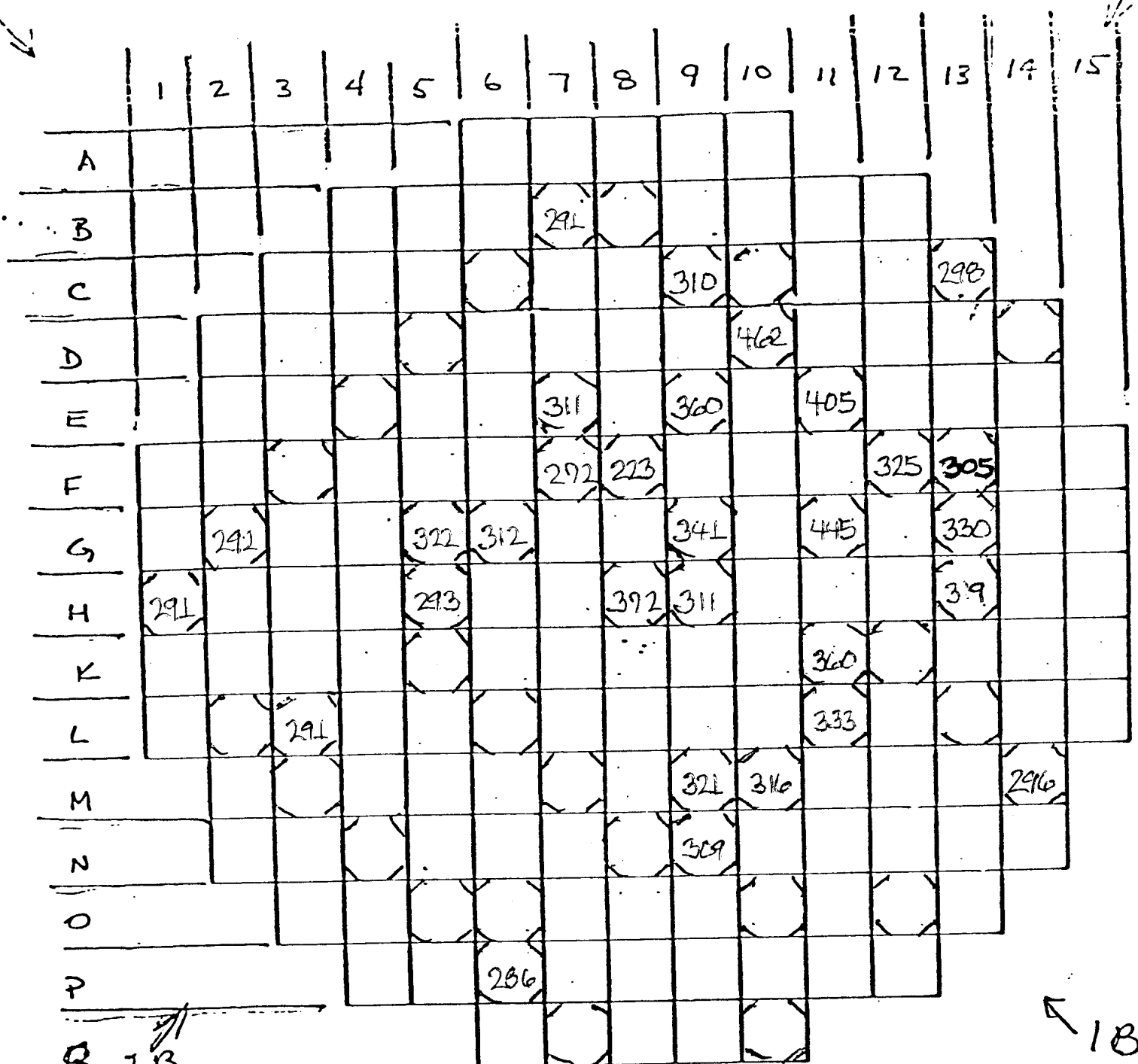


FIGURE 4.1

A cut

3A

1A



Date 4/5/79 ~~4/10/79~~ $\phi\phi 47$ B out

Time 0100

Press. Pressure 1003

T_A inlet 282

T_B inlet 298

T_{pressure} 558

L_{pressurizer} 217

Press SG A

Press SG B

Le_{tdown} Flow

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1



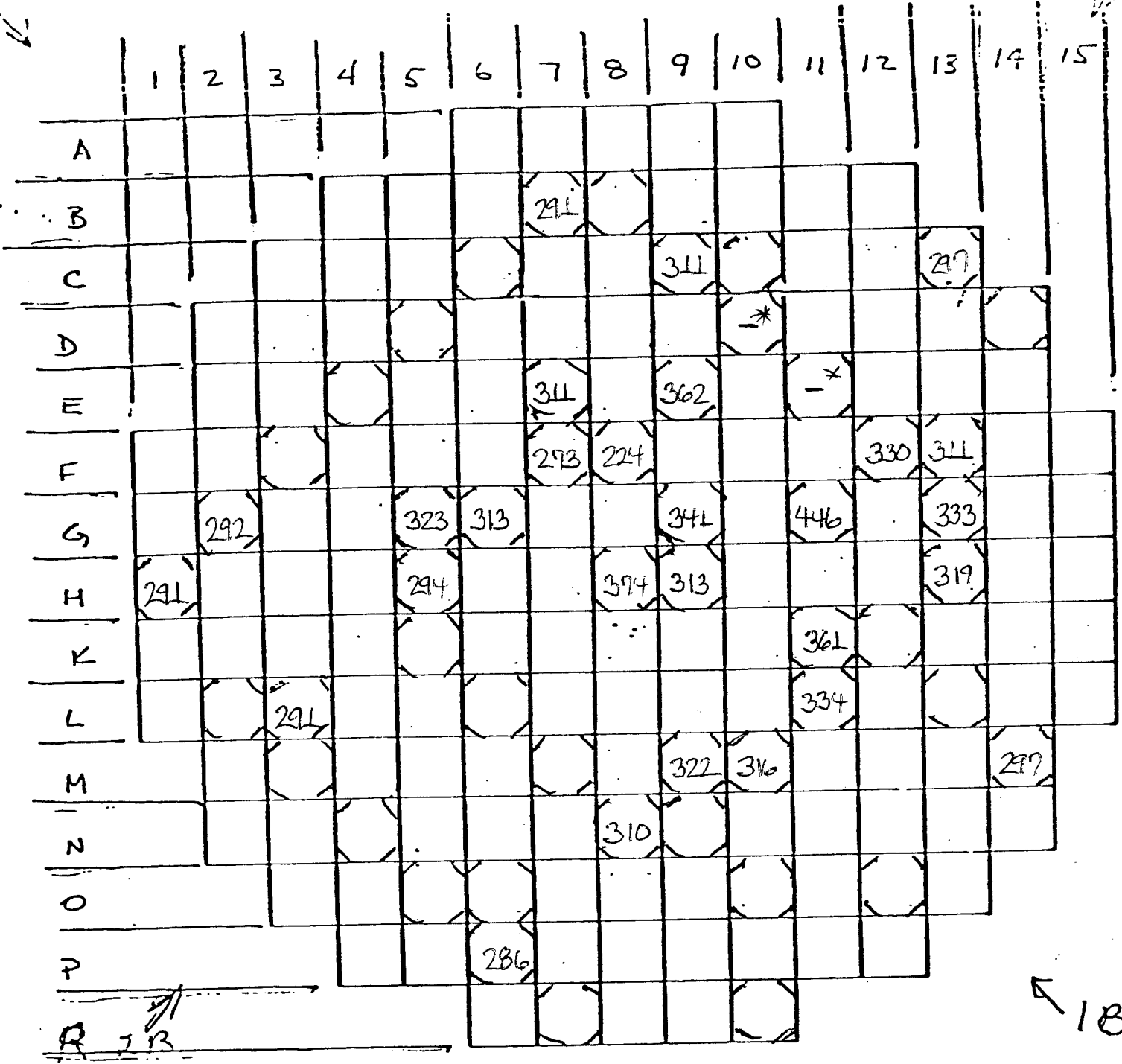
FIGURE 4

- 1.1 - Containment Press.
86°F - Containment Temperature

3A ↘

A cut

1A ↘



1B ↙

Date 4/5/79

Time 0750 - 0250

Press. Pressure 965

T_A inlet 286

T_B inlet 294

T pressure 555

L pressurizer 229

Press SGA _____

Press SGB _____

Le down Flow _____

B out

* Not available because of computer use

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT



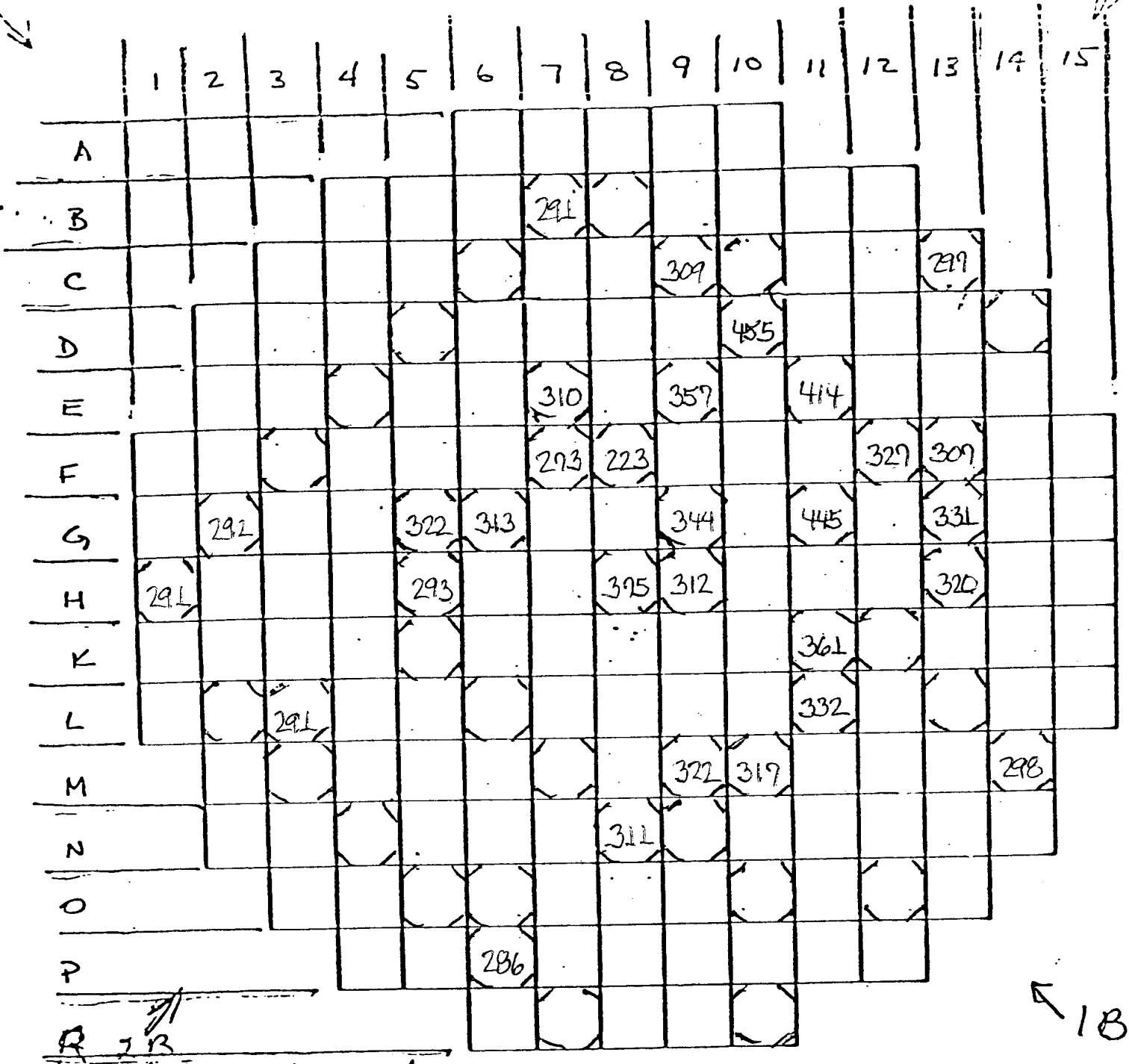
FIGURE 4

-1.1 - Containment Pressure

3A ↘

A cut

1A ↘



Date 4/5/79

Time _____

Press. Pressure 990

T_A inlet 285

T_B inlet 293

T pressure 550

L pressurizer 236

Press SG A 90% level / 15 psig

Press SG B 97% level / 13 psig

Letdown Flow _____

MGT - 60"
level
Contain. - -1.2"
Press.

Recombiner in line
Recombiner
φφ3φ 230φ - 4/4/79
H₂ level in Containment
1.98% 1.98%

B out

↖ 1B

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT

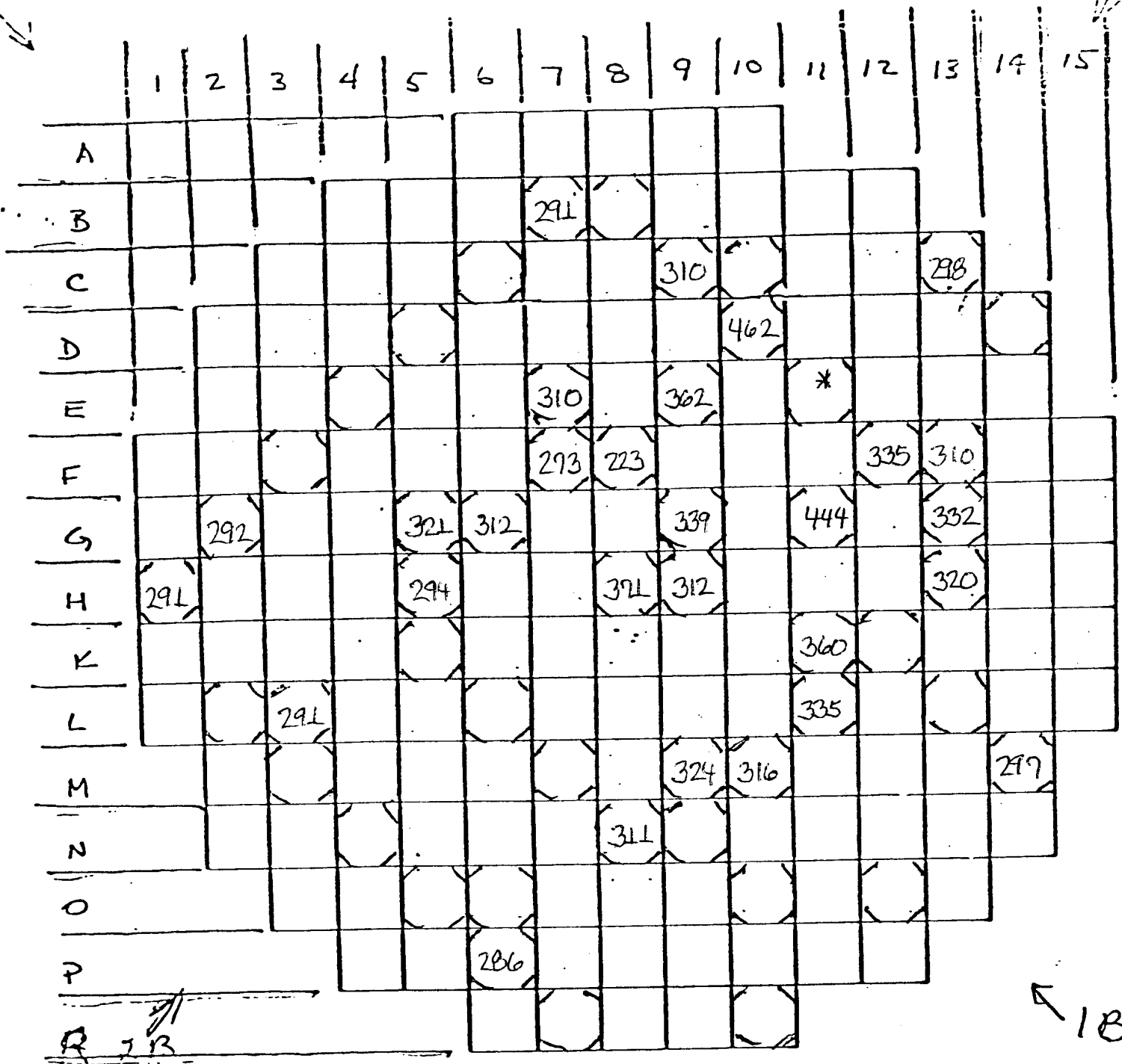


FIGURE 4.1

3A ↘

A cut

1A ↘



↖ 1B

Date 4/5/99
 Time 0650 0648 ↗
 Press. Pressure 1046

B out * Computer use did not allow reading

TA inlet 285
 TB inlet 284
 T pressure 556
 L pressurizer 235
 Press SGA 90%/15 gpm
 Press SGB 77%/13 gpm
 Letdown Flow

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UN

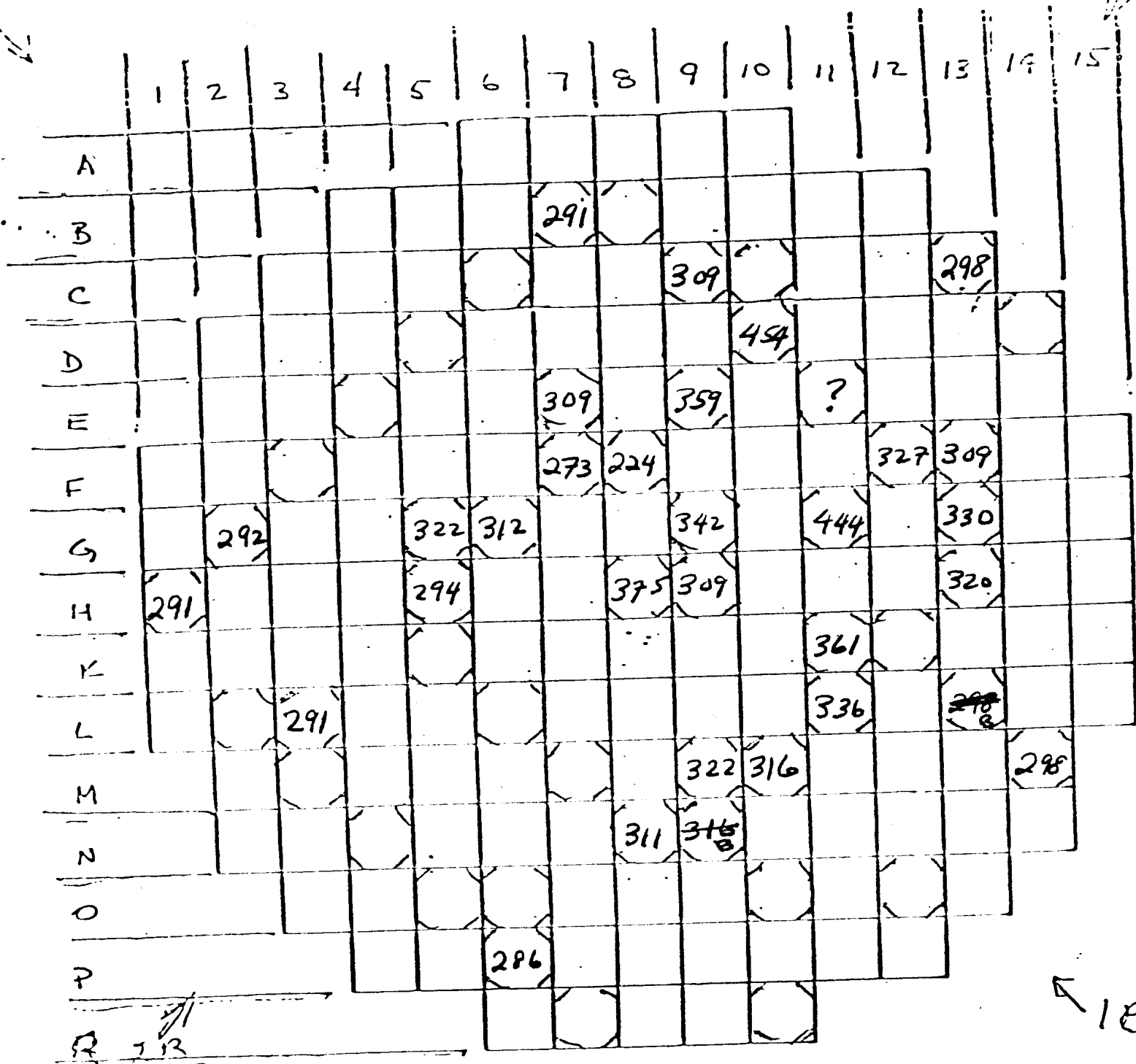


FIGURE 4

H₂ levels
 Cont Racimbines
 1.98 - ~~0630~~ 1.74 - ~~0630~~

A out

1A



Date 4/5/79

B out

Time 1000

Press. Pressure 1080 psig

T_A inlet 287 F

T_B inlet 281 F

T_{pressure} 556 F P_{cont} -1.2 psig

L_{pressurizer} 195"

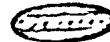
Press SGA 15 psig L_{SGA} = 89%

Press SGB 13 psig L_{SGB} = 83%

Letdown Flow 19.5 cald

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 1

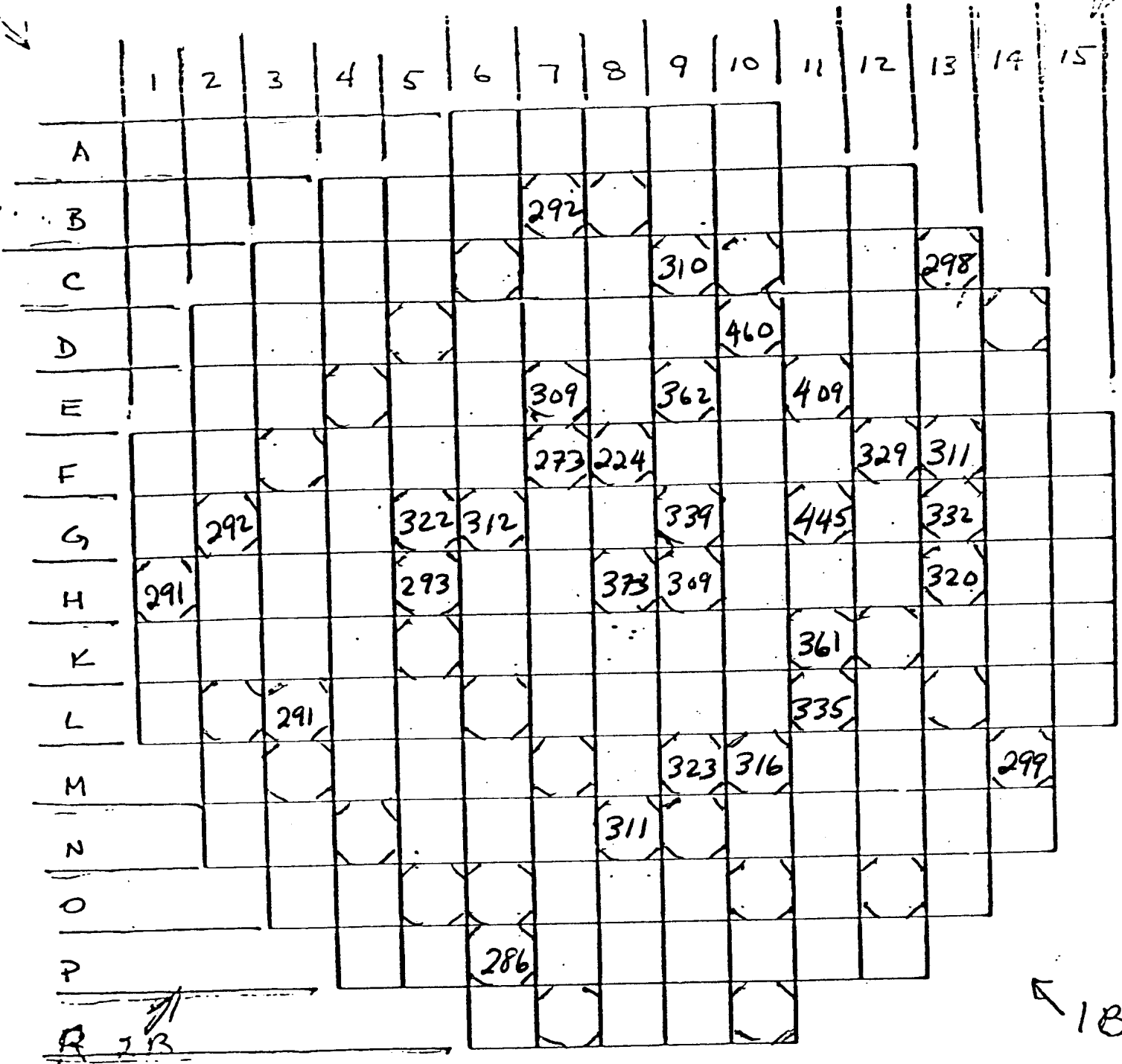


FIGURE

2A ↘

A cut

1A ↘



1B ↙

Date 4/5/79 1155 ↗

B out

Time 1230 ↘

Press. Pressure 966 psig

T_A inlet 286

T_B inlet 284

T pressure 548 F

L pressurizer 216" P_{cont.} - 1.2 psig

Press SGA _____

Press SGB _____

Letdown Flow 19.5 calc gpm

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1

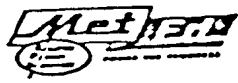
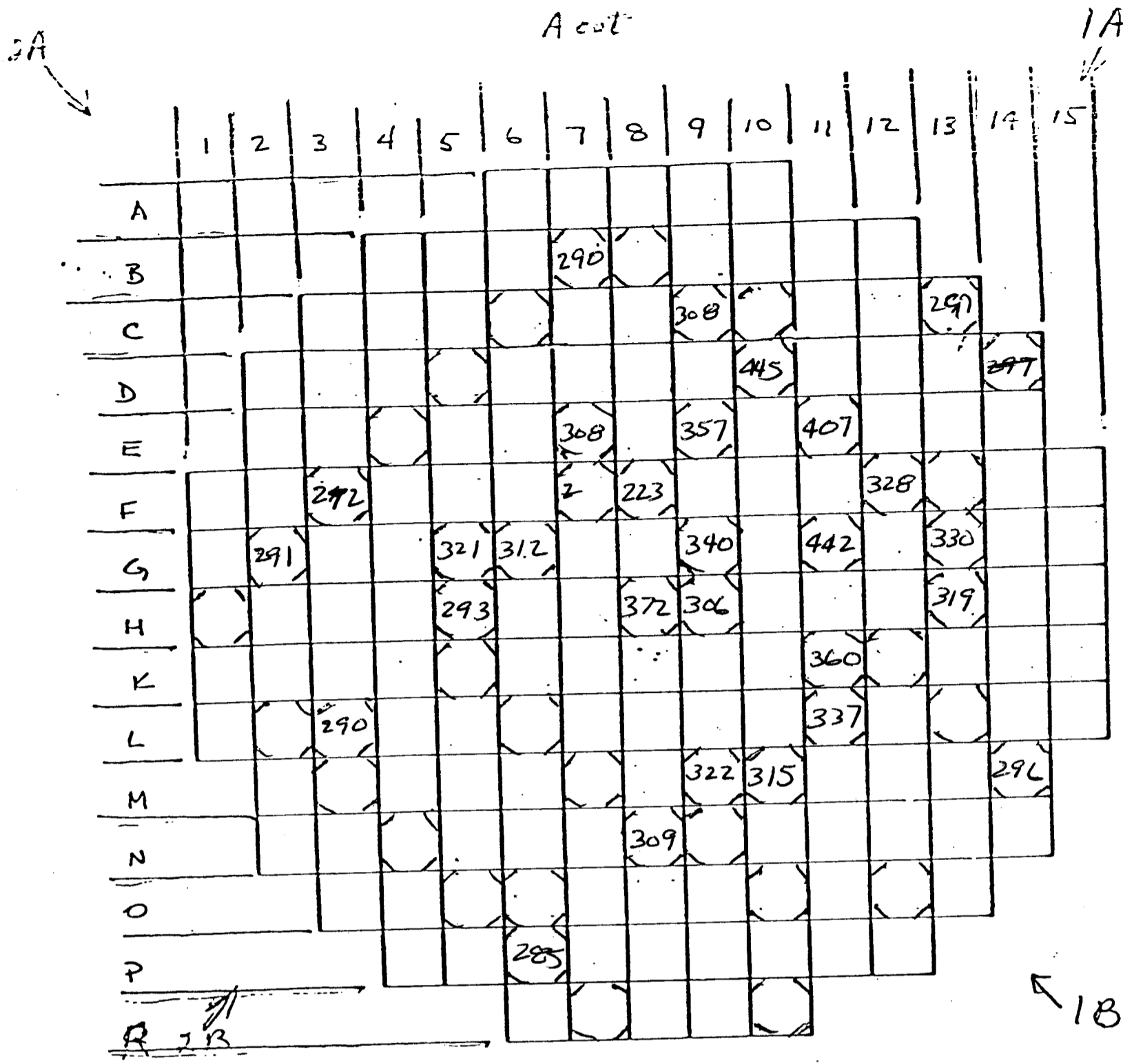


FIGURE 4



Date 4/5/79
 Time 1600
 Press. Pressure 1025
 TA inlet 288
 TB inlet 282
 T pressure 550
 L pressurizer 209
 Press SGA _____
 Press SGB _____
 Ledown Flow _____

B out
 He inline 1.98
 Recombiner 1.80

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE 4

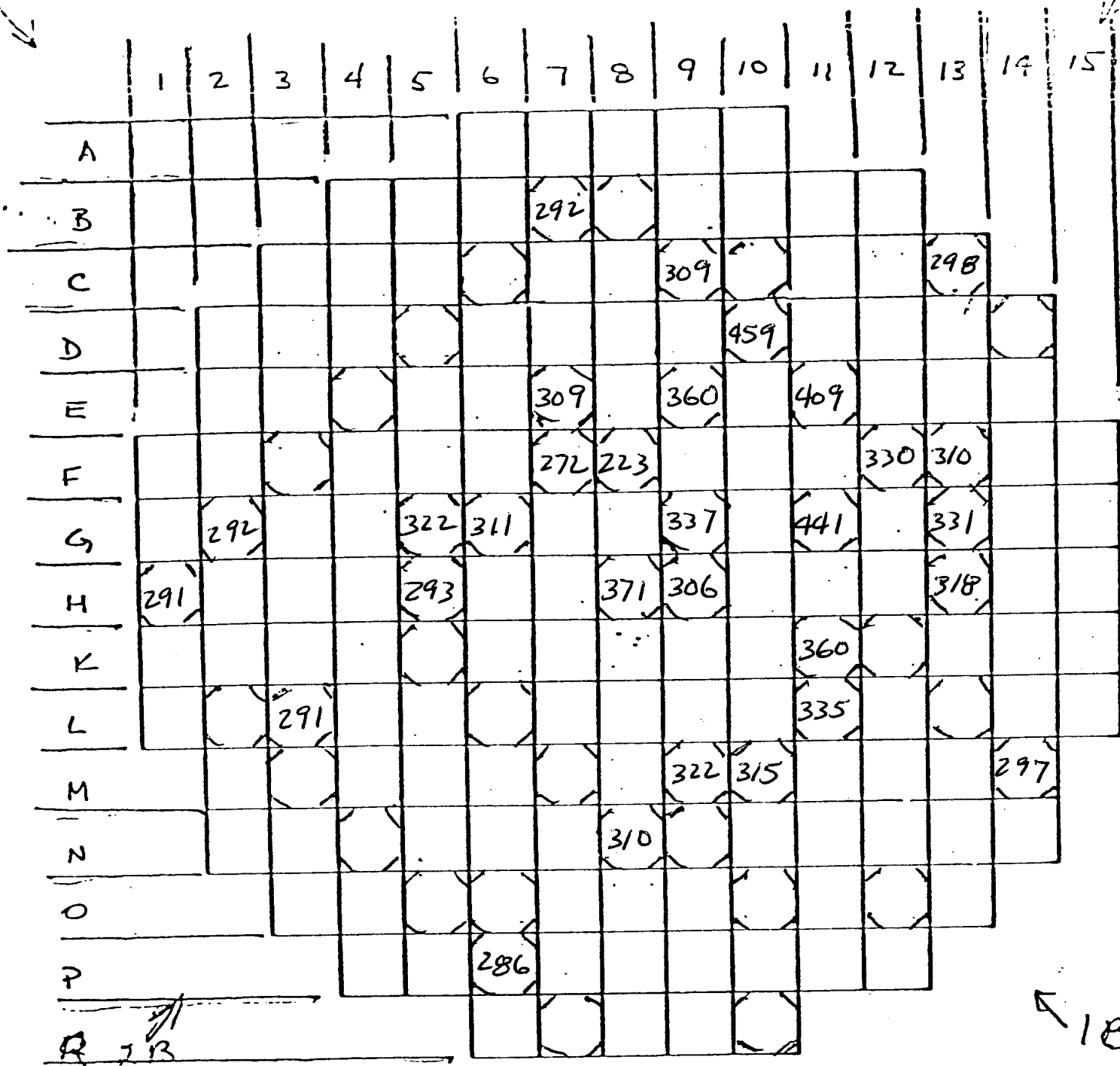
Bubble = 0 Ft³

Cont. Press -1.2 Temp 87 Level 3' 5"

3A ↘

A out

1A ↘



Date 4-5-79

B out

Time 1800

Press. Pressure 1075

T_A inlet 286

T_B inlet 282

T_{pressure} 555

L_{pressurizer} 215

Press SG A _____

Press SG B _____

Le_{down} Flow _____

Cont.	Press	Temp	Level
	-1.2	87	3'5"

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT

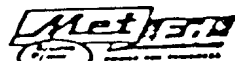
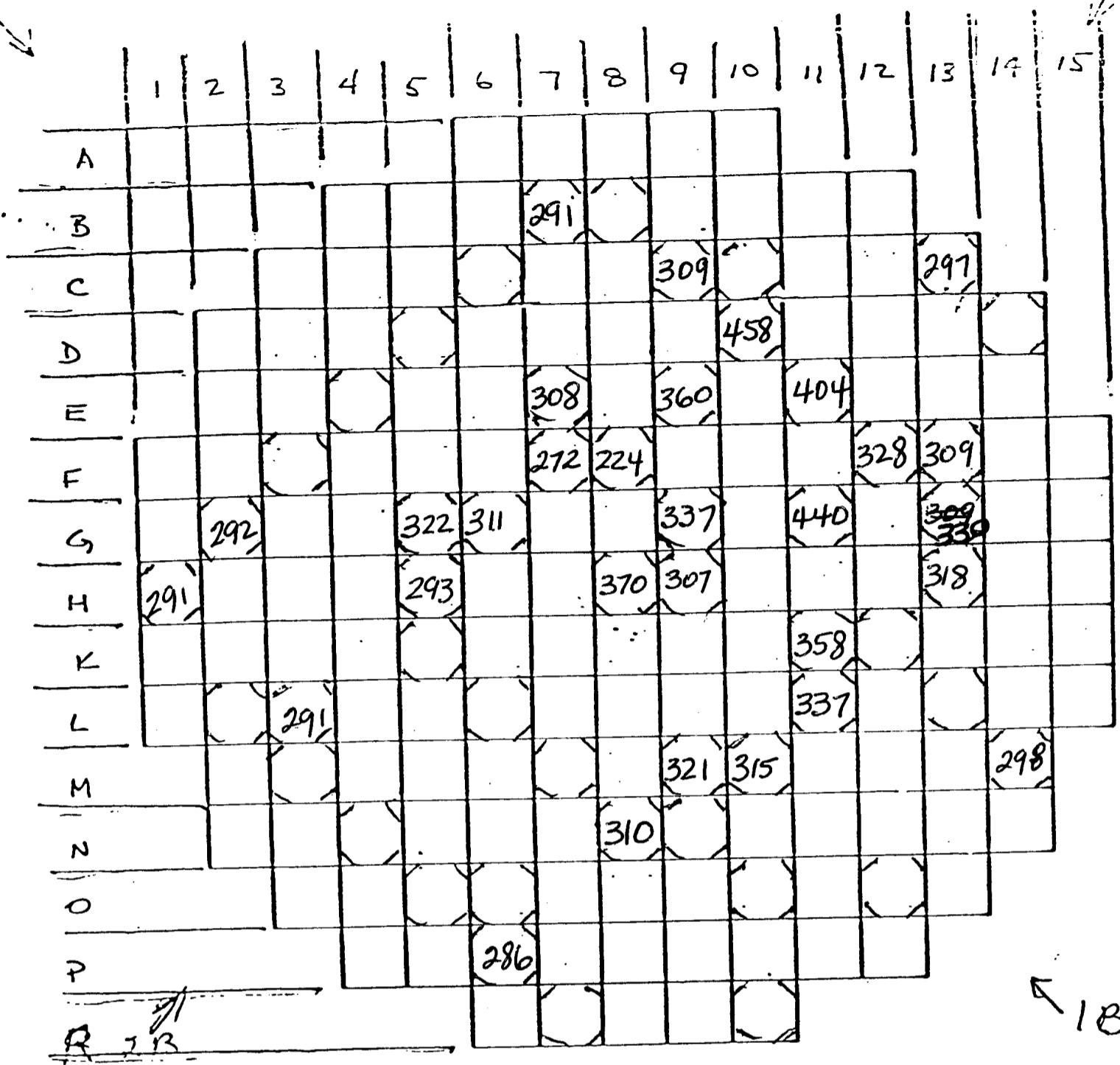


FIGURE 4.1

3A ↘

A cut

1A ↗



↖ 18

Date 4/5/79

B out

Time 2000

H₂ Conc. 1.3% In line

Press. Pressure 1020

Recon 1.68

T_A inlet 287

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS

T_B inlet 282

THREE MILE ISLAND NUCLEAR STATION UNIT

T pressure 550

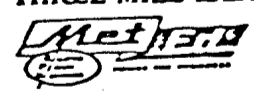


FIGURE 4

L pressurizer 215

Press SG A _____

Press SG B _____

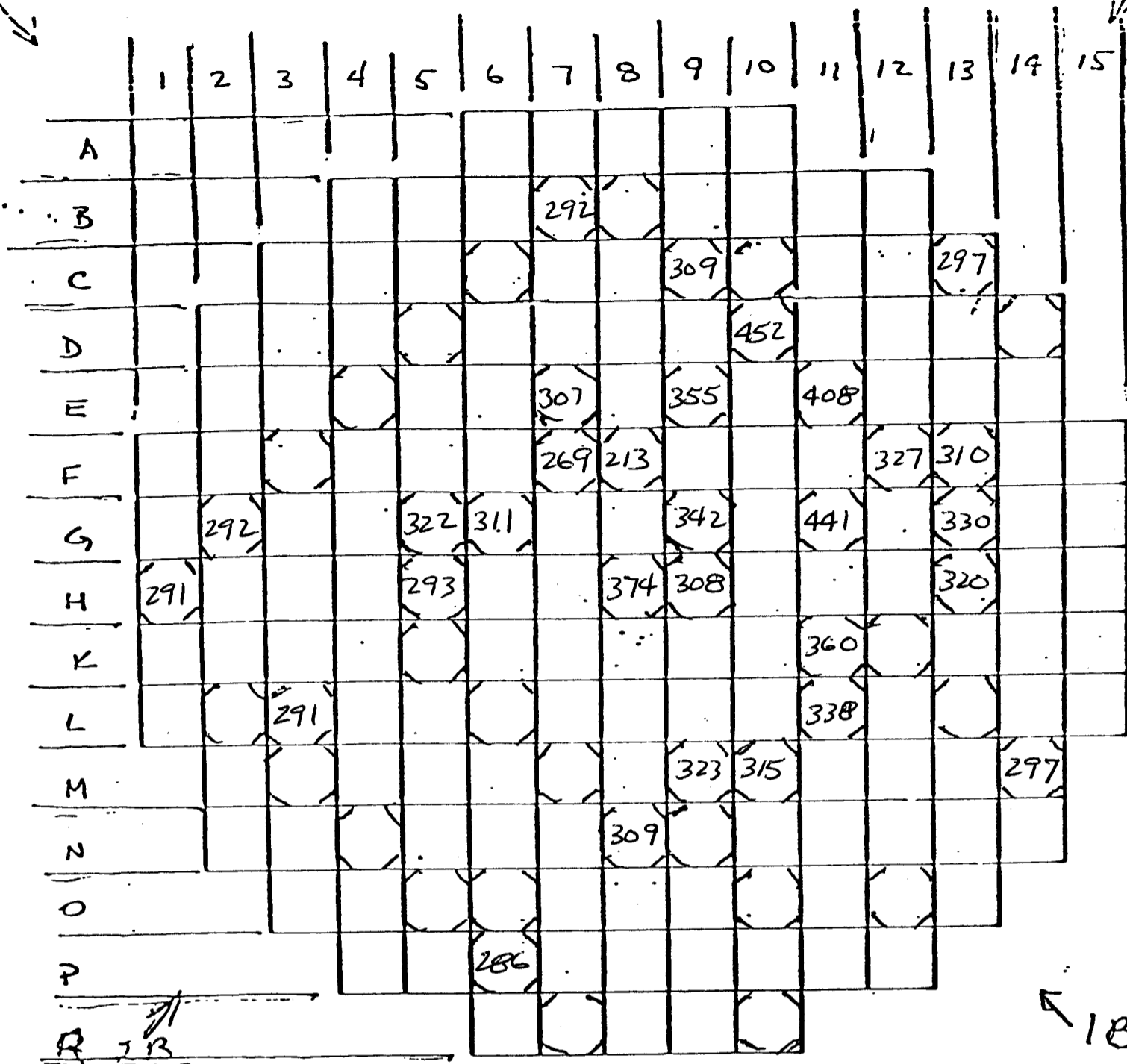
Letdown Flow 10

Cont.	Press	Temp	Level
	1.2	87°	Same

2A ↘

A cut

1A ↙



1B ↙

Date 4/5/79

B out

Time 2200

Press. pressure 1150

TA inlet 288

TB inlet 282

T pressure 550

L pressurizer 215

Press SGA _____

Press SGB _____

Letdown Flow _____

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1



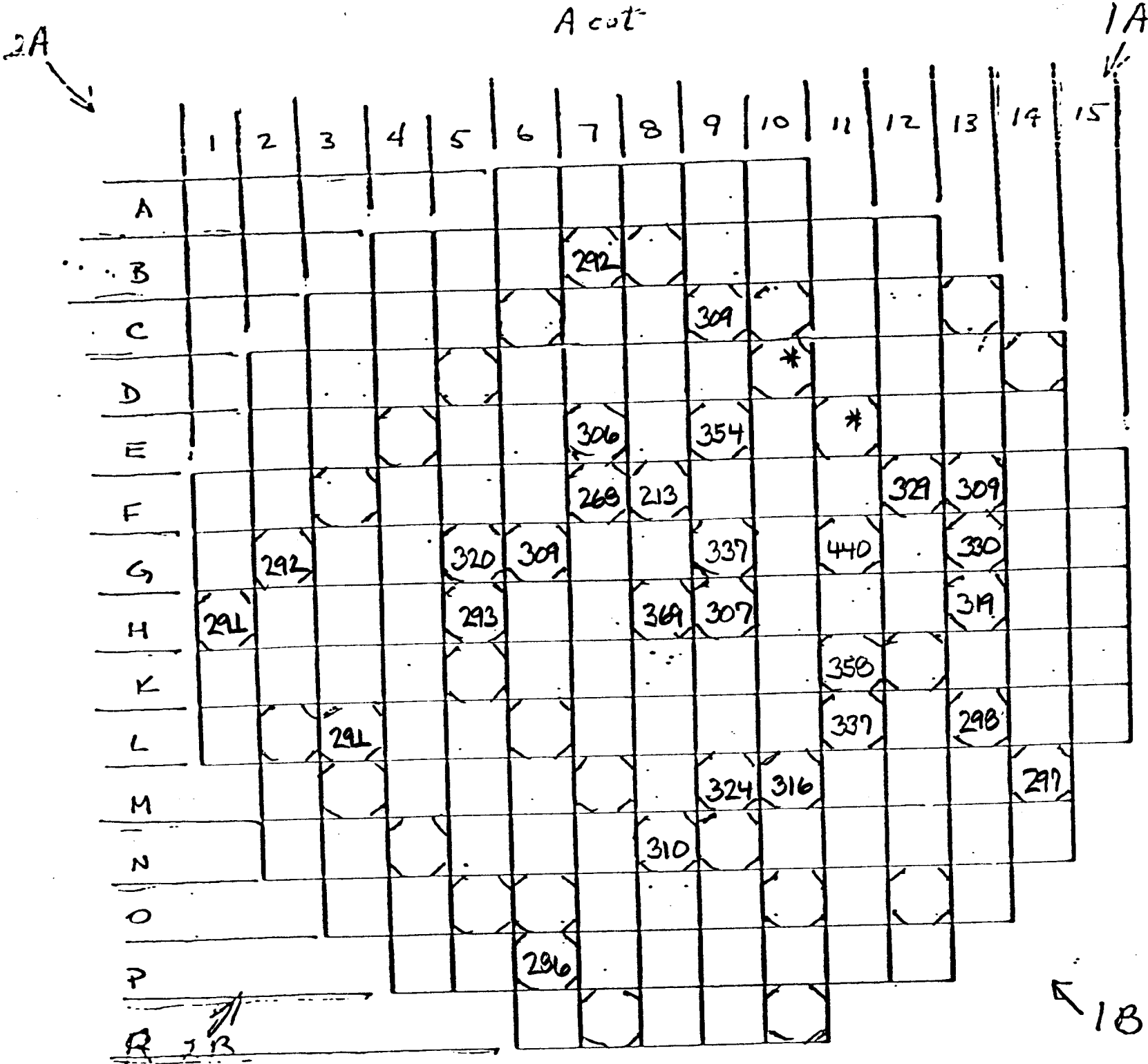
FIGURE 4

Hydrogen Conc Inline: 1.98

Recombiner 1.88

CONTAINMENT:

Pressure -1.2 Temp. 87 Level of Water 3' 5"



Date 4/6/79
 Time 0009
 Press. Pressure 106L

B out

* Computer in use

TA inlet 295
 TB inlet 296
 T pressure 557
 L pressurizer 243
 Press SGA _____
 Press SGB _____
 Letdown Flow _____

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE 4

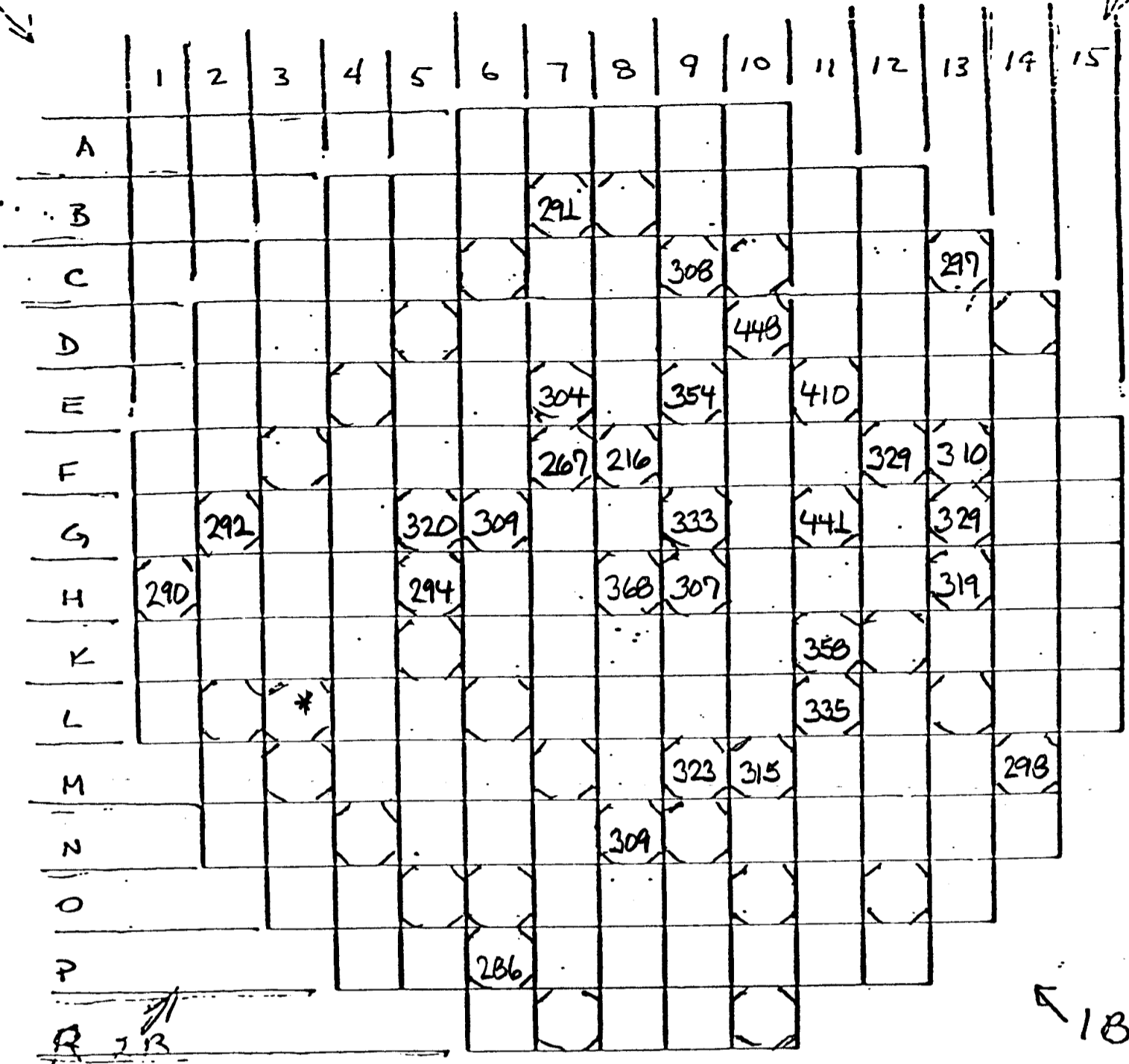
Hydrogen Conc Inline: 1.98 220304/5
 Recombiner 1.88 22004/5

CONTAINMENT:
 Pressure -1.2 Temp. 87° F Level of Water 3' 5"

2A ↘

A cut

1A ↙



1B ↙

Date 4/6/79

Time 0230 → 0244

Press. Pressure 1075

TA inlet 286

TB inlet 293

T pressure 555

L pressurizer 248

Press SGA 348" ~90%

Press SGB 307" ~79%

Letdown Flow

B out

*Reading not available due to computer use

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UN

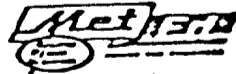


FIGURE 4

Hydrogen Conc Inline:

Recombiner

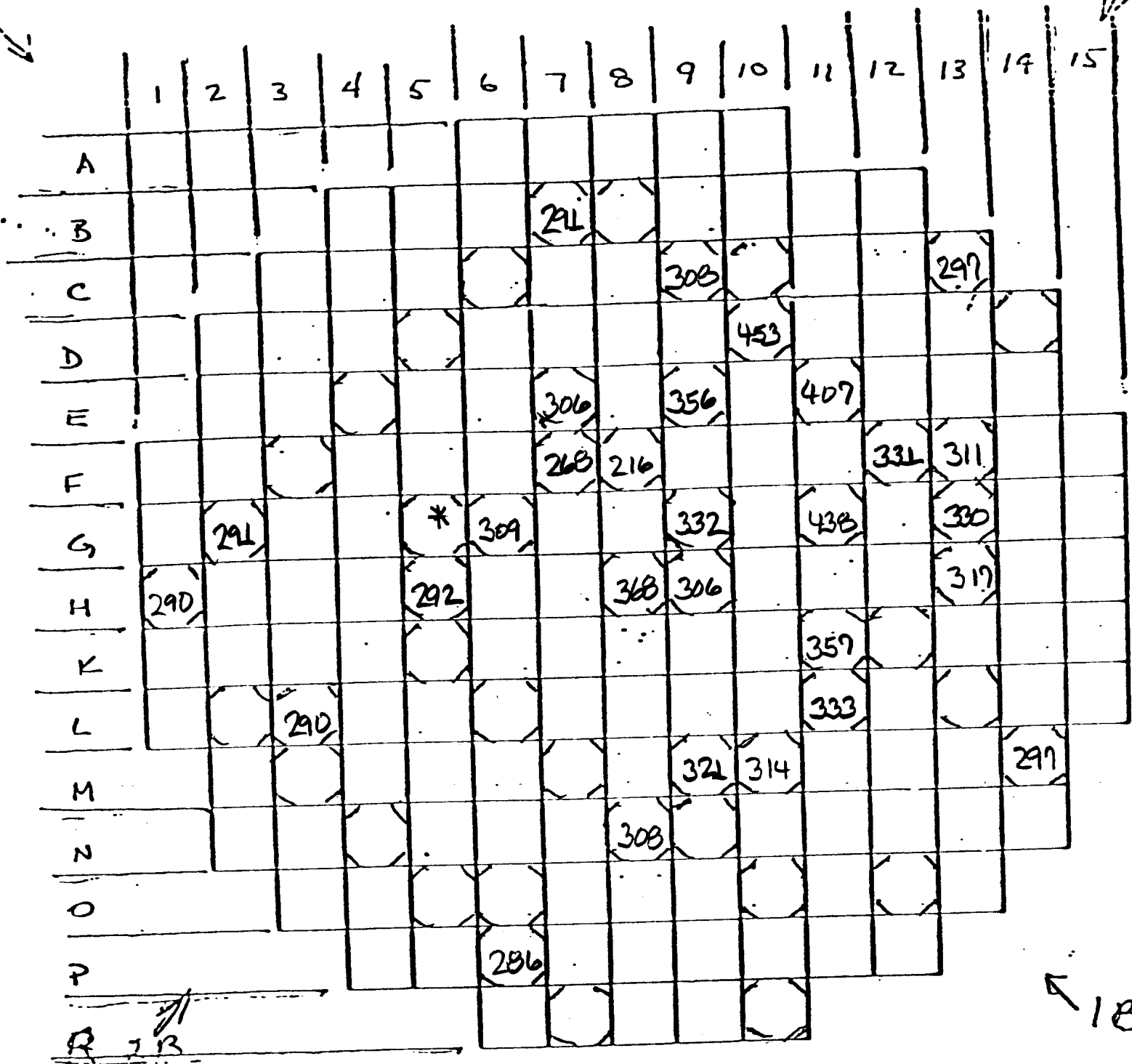
CONTAINMENT:

Pressure -1.2 Temp. Level of Water

A cut

1A

2A



18

Date 4/6/79
 Time 0400

B out

* Unavailable because
 of computer use

Press. Pressure 1039

TA inlet 285

TB inlet 283

T pressure 556

L pressurizer 253

Press SGA 90% (369) / 15 psig

Press SGB 81% (308) / 13 psig

Letdown Flow

Hydrogen Conc

Inline: - 1.98 psig

Recombiner - 1.73 psig

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE 4

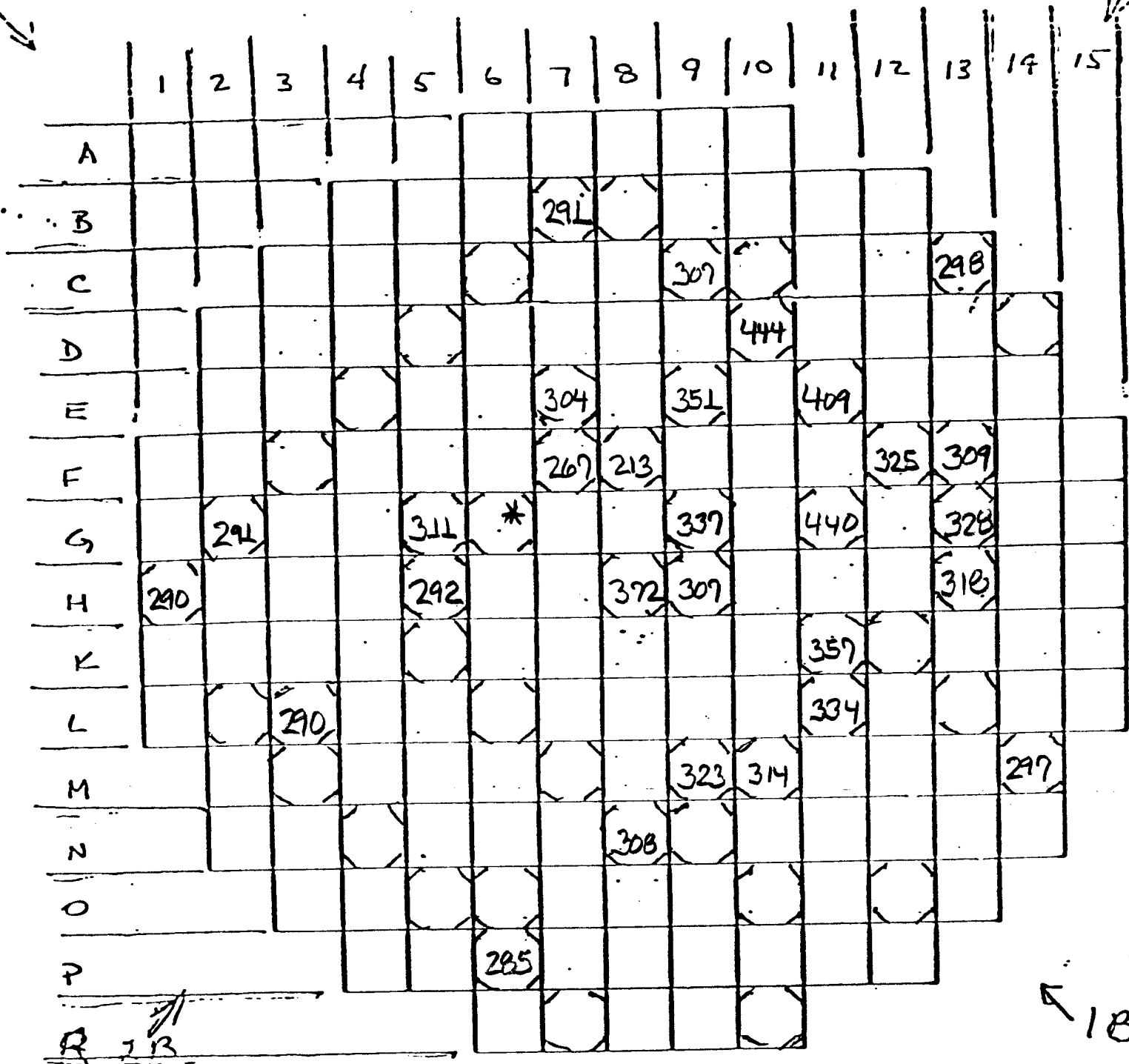
CONTAINMENT:

Pressure 1.2 Temp. Level of Water

2A ↘

Acut

1A ↘



↖ 1B

Date 4/6/99

B out

Time 0547

Press. Pressure 1160

WGDT Press. 0552
A 89
B 84

T_A inlet 285

T_B inlet 282

T pressure 561

L Pressurizer 254

Press SGA 391"/16

Press SGB 304"/13

Le_{down} Flow

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 1

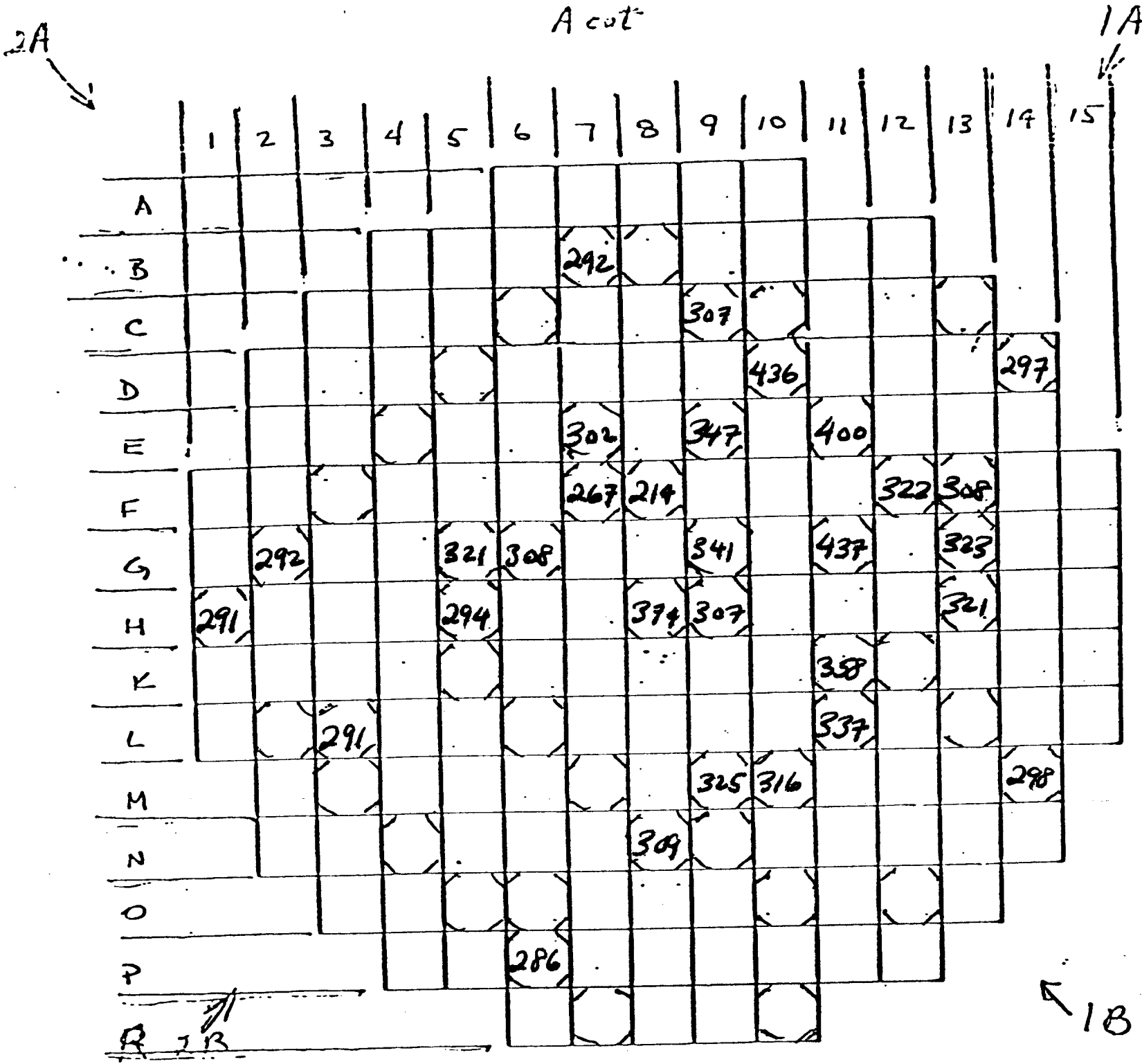


FIGURE 4

Hydrogen Conc Inline:
Recombiner

CONTAINMENT:

Pressure -1.2 Temp. 84 Level of Water



Date 4/6/79
 Time 1000

B out

Press. Pressure 1125 psig

T_A inlet 285 F

T_B inlet 282 F

T pressure 560 F

P_{cont} -1.2 psig

T_{cont} P3

L Pressurizer 242"

Press SGA 1p L_A 355"

Press SGB 14" L_B 303"

Hydrogen Conc Inline: _____

Letdown Flow _____

Recombiner _____

CONTAINMENT:

Pressure -1.2 psig Temp. 83 F Level of Water _____

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT

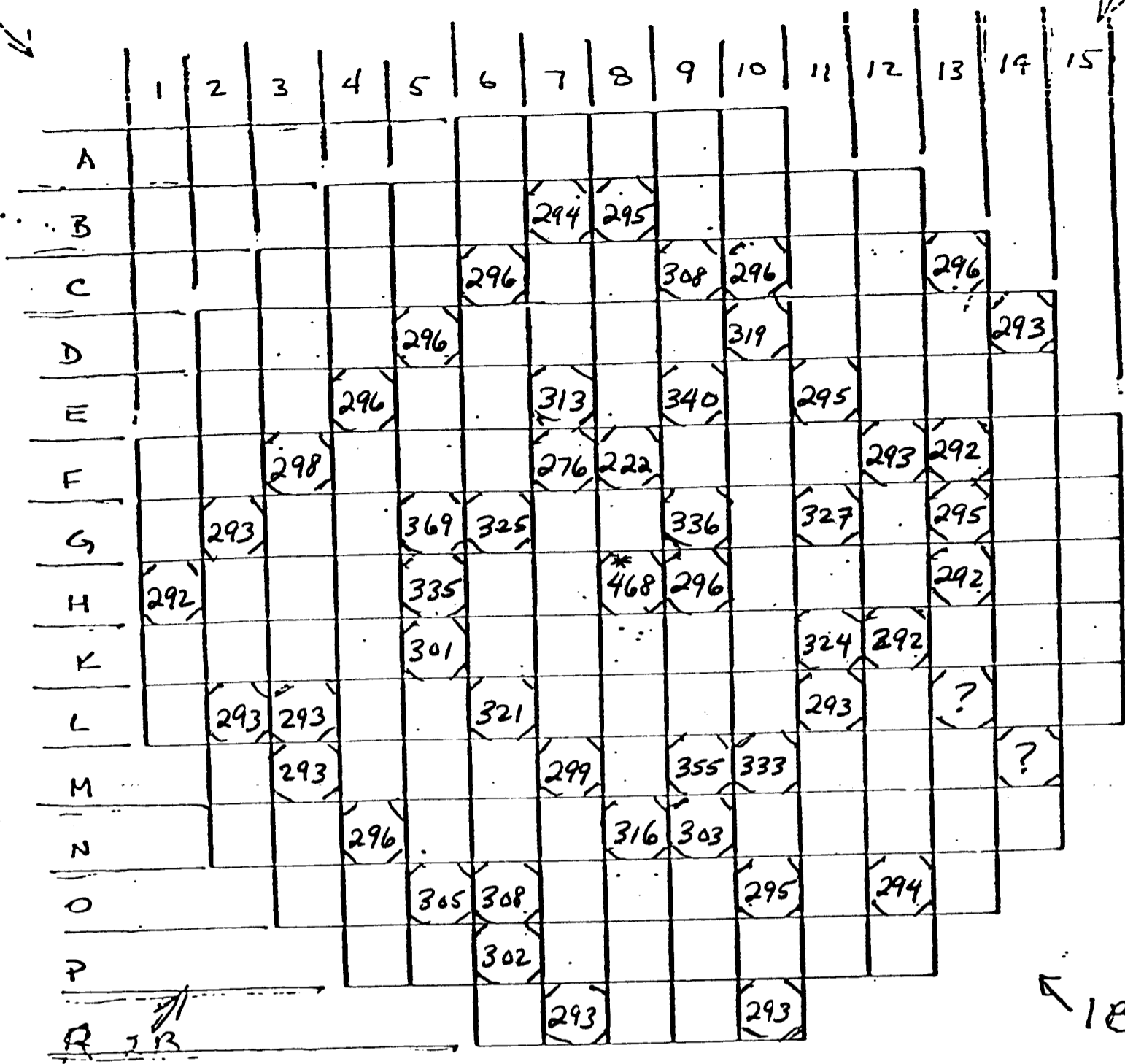


FIGURE 4

Acut

2A

1A



Date 4/6/79

Time 1447

Press. Pressure _____

TA inlet _____

TB inlet _____

T pressure _____

L pressurizer _____

Press SGA _____

Press SGB _____

Le down Flow _____

B out

* during transient this TC reading varied widely it has steadied out but may be suspect.

? no reading

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UN

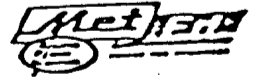


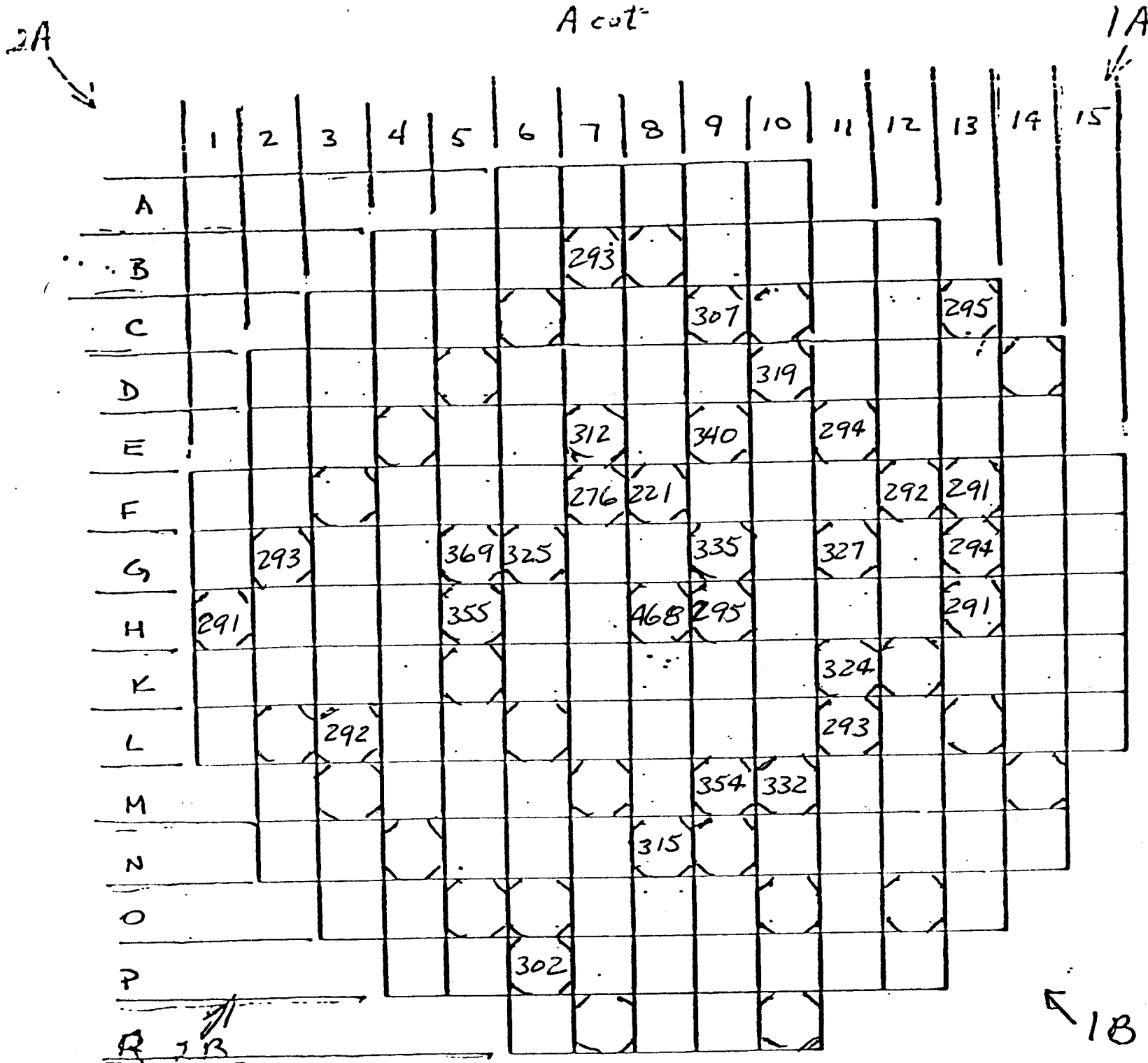
FIGURE 4

Hydrogen Conc Inline: _____

Recomber _____

CONTAINMENT:

Pressure _____ Temp. _____ Level of Water _____



Date 4/6/79 B out

Time 1447 time reading from computer for NRR trying to approach 131B when pump 1A tripped.

Pressure _____ 1447 is time Computer printed temps, no time temp were read by inspector. Temps were recorded by inspector @ 1920

1A inlet _____

1B inlet _____

T pressure _____

L pressurizer _____

Press SGA _____

Press SGB _____

Letdown Flow _____

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 1

FIGURE 4

Hydrogen Conc Inline: _____

Recombiner _____

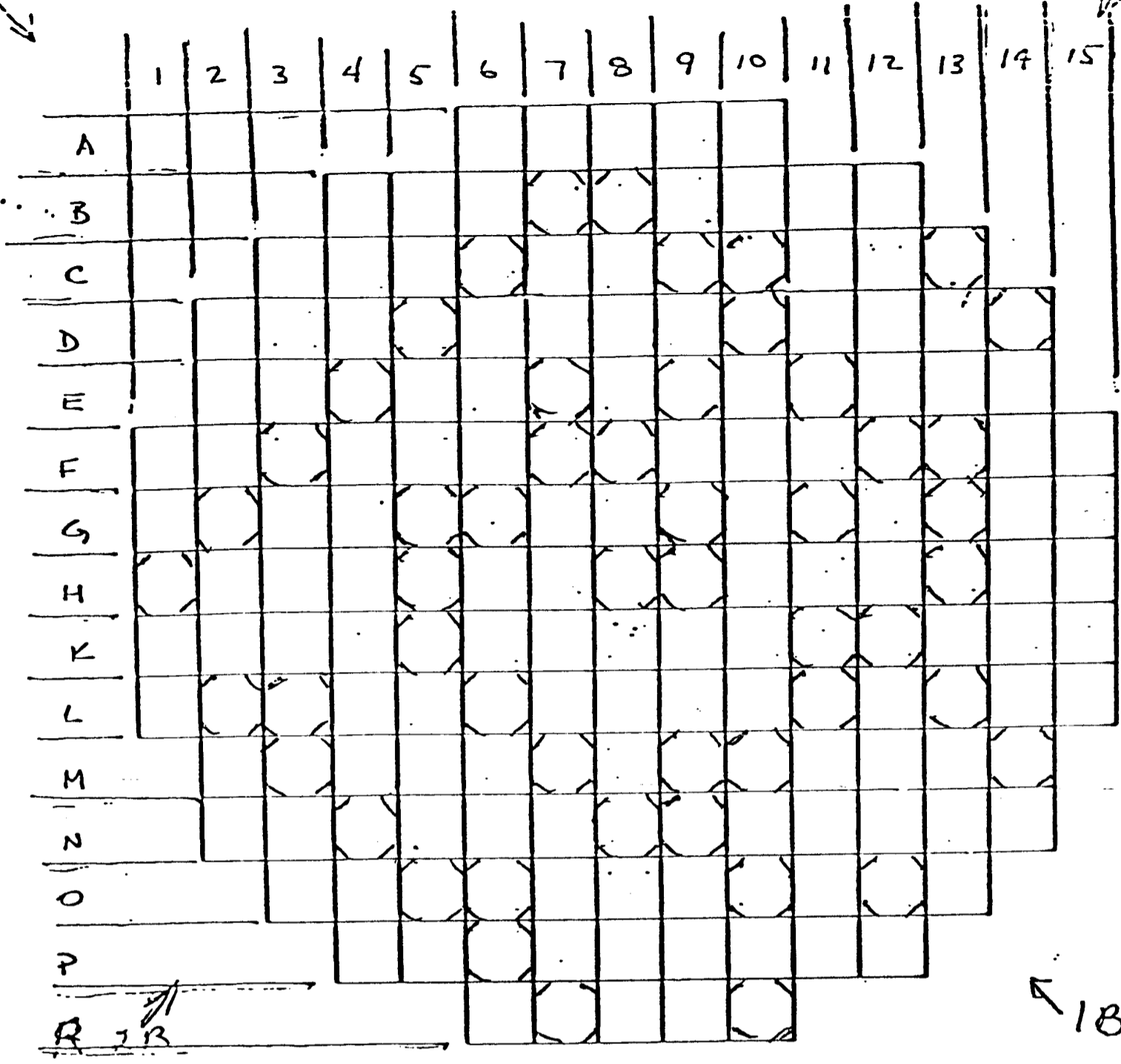
CONTAINMENT:

Pressure _____ Temp. _____ Level of Water _____

2A ↘

Acut

1A ↙



Date 4/6/79

B out

Time 1545

Press. Pressure 1110 psig

TA inlet 286 F

TB inlet 282 F

T pressure 560 F

L pressurizer 231"

Press SGA _____

Press SGB _____

Letdown Flow _____

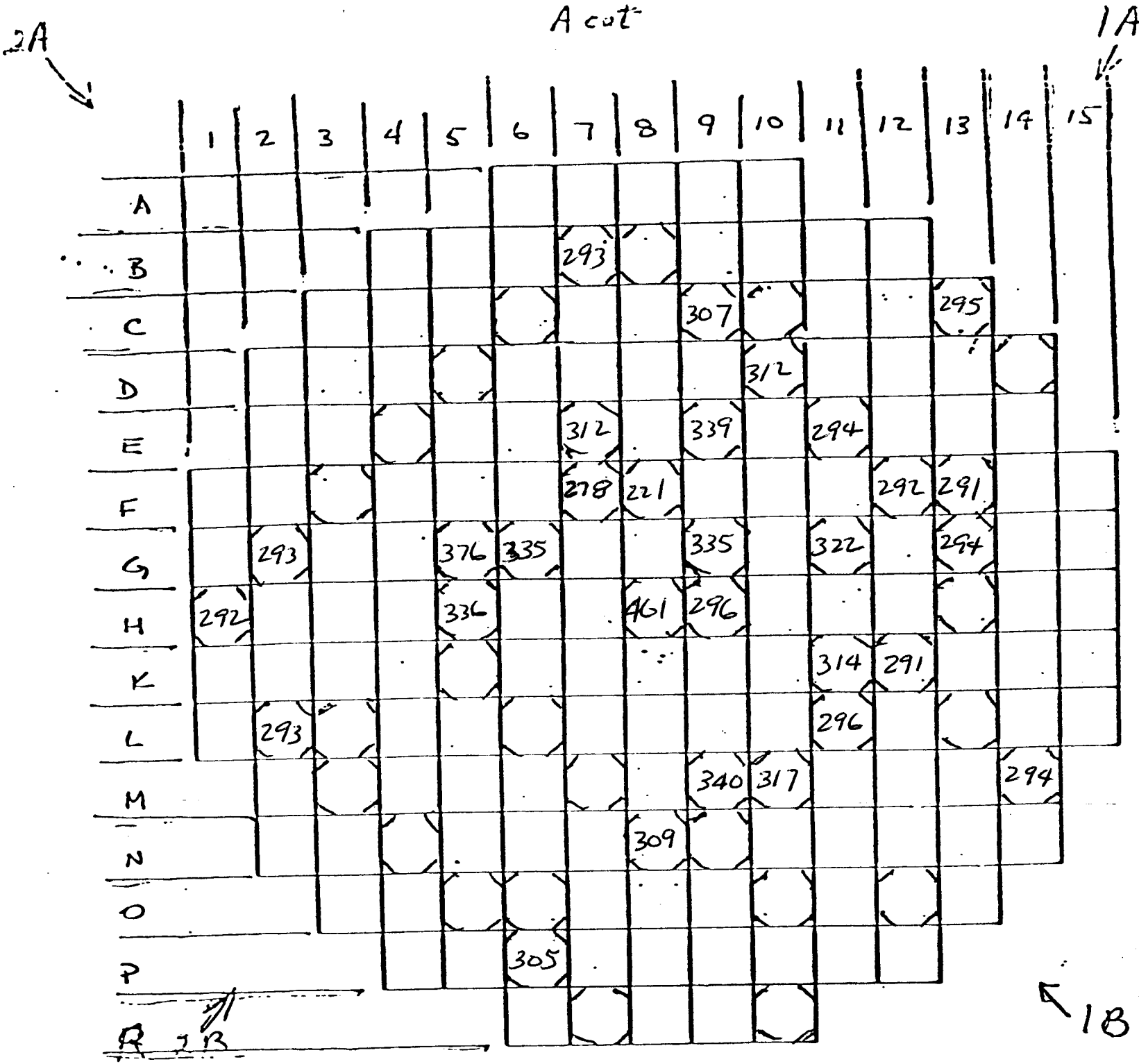
LOCATION OF FUEL ASSEMBLIES CONTAIN
BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UN



FIGURE 4.

Hydrogen Conc Inline: 1.65% ^{time unknown}
Recombiner 1.82%

CONTAINMENT
Pressure 1.2 psig Temp. 83 Level of Water _____



Date 4/6/79

Time 1600

Press. Pressure 1110

TA inlet 286

TB inlet 282

T pressure 560

L pressurizer 231

Press SGA _____

Press SGB _____

Letdown Flow 17 Psted -

Hydrogen Conc Inline: 1165 %
Recombiner 1182 %

CONTAINMENT:

Pressure -1.2 Temp. 83 Level of Water 3' 6"

LOCATION OF FUEL ASSEMBLIES CONTAIN
BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT

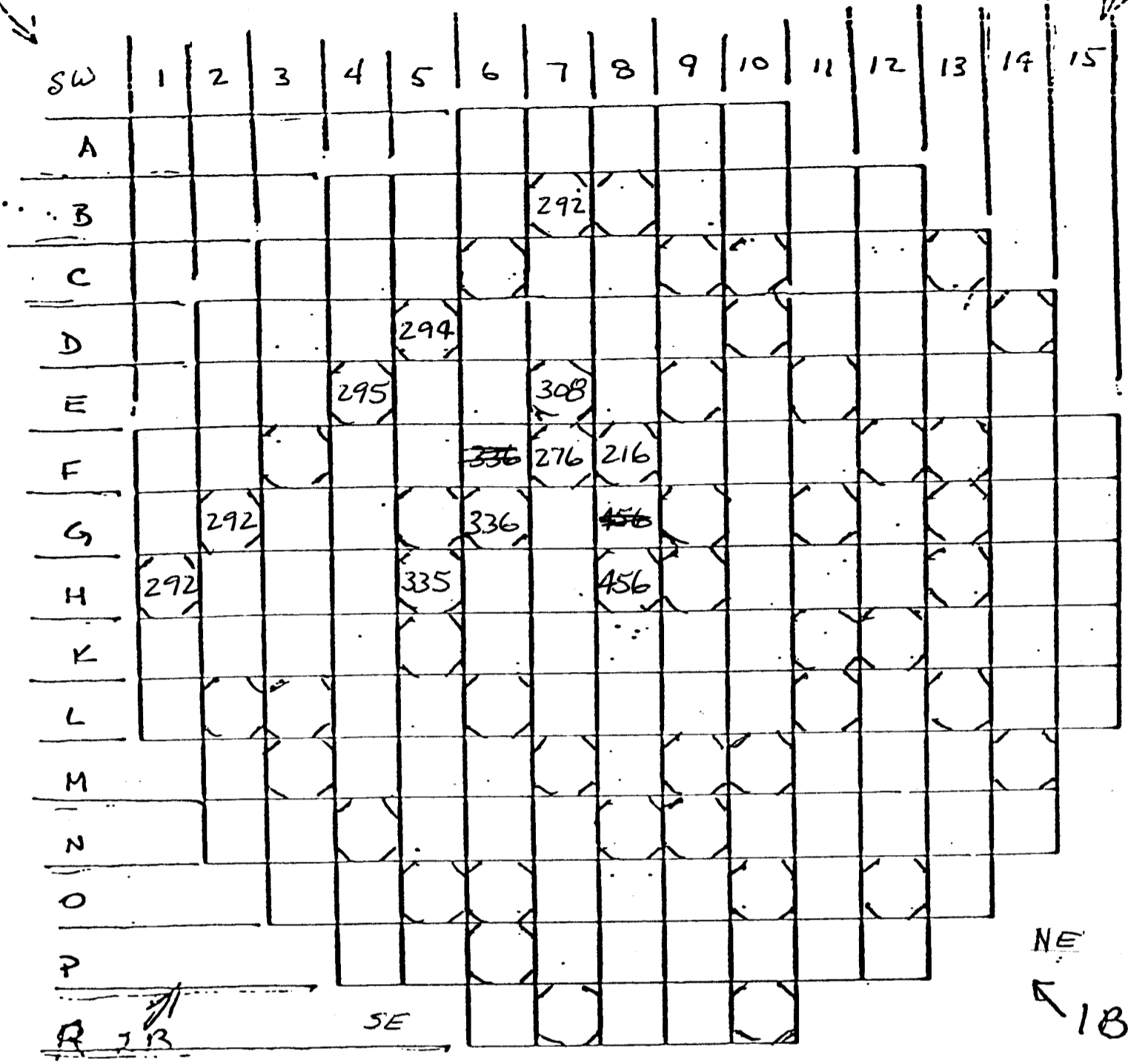


FIGURE 4

2A ↘

A cut

NW ↙ 1A



Date 4/6/79

B out

Time 1800

SPECIAL READING IN SW QUAD. PER NRR REQUEST.

Press. Pressure _____

TA inlet _____

TB inlet _____

T pressure _____

L pressurizer _____

Press SGA _____

Press SGB _____

Le down Flow _____

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UN



FIGURE 4

Hydrogen Conc Inline: _____
Recombiner _____

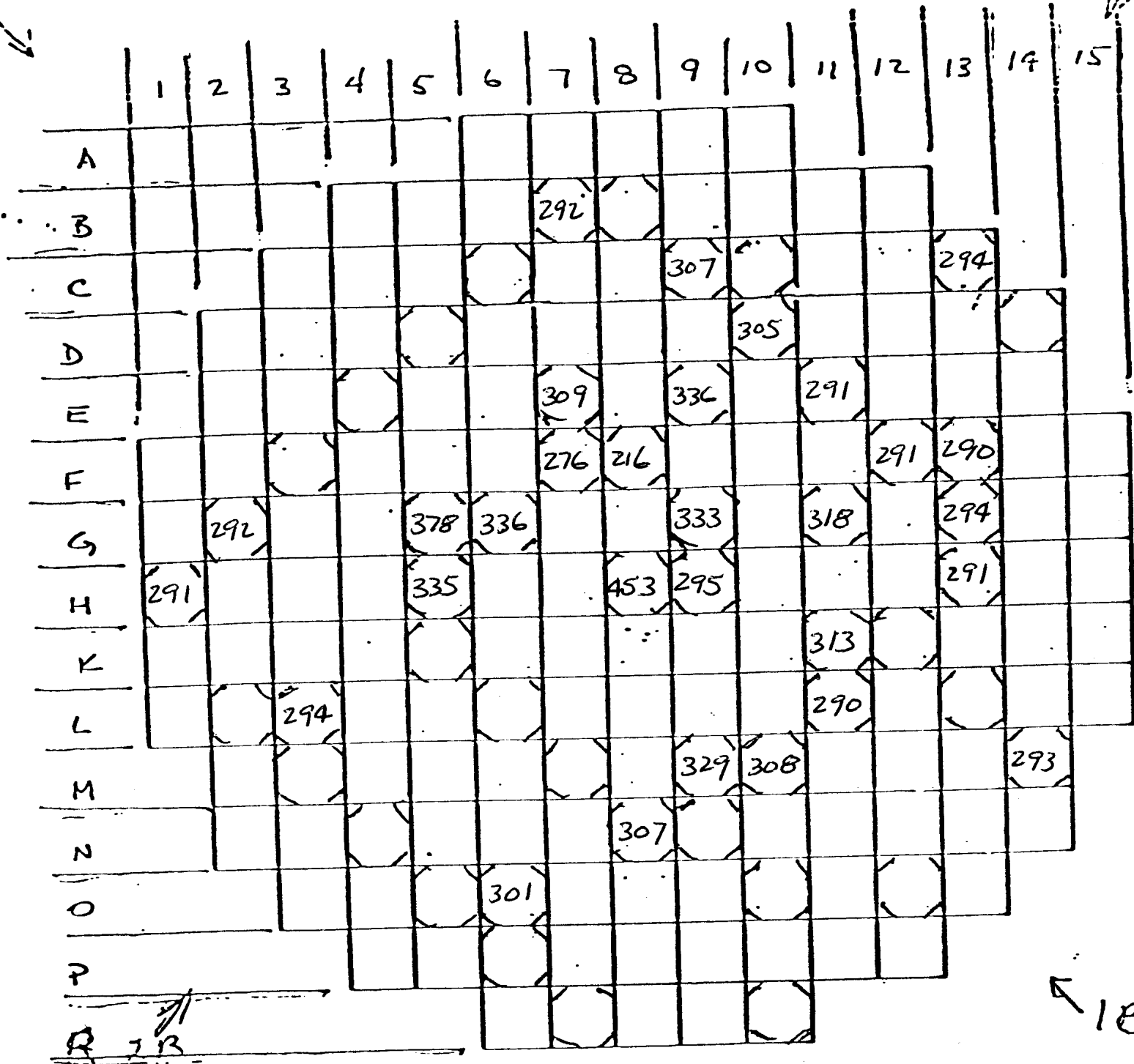
CONTAINMENT:

Pressure _____ Temp. _____ Level of Water _____

Acut

2A ↘

1A ↙



1B ↙

Date 4/6/79

B out

Time 1047

Press. Pressure _____

T_A inlet _____

T_B inlet _____

T pressure _____

L pressurizer _____

Press SGA _____

Press SGB _____

Letdown Flow _____

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE 4

Hydrogen Conc Inline: _____
Recombiner _____

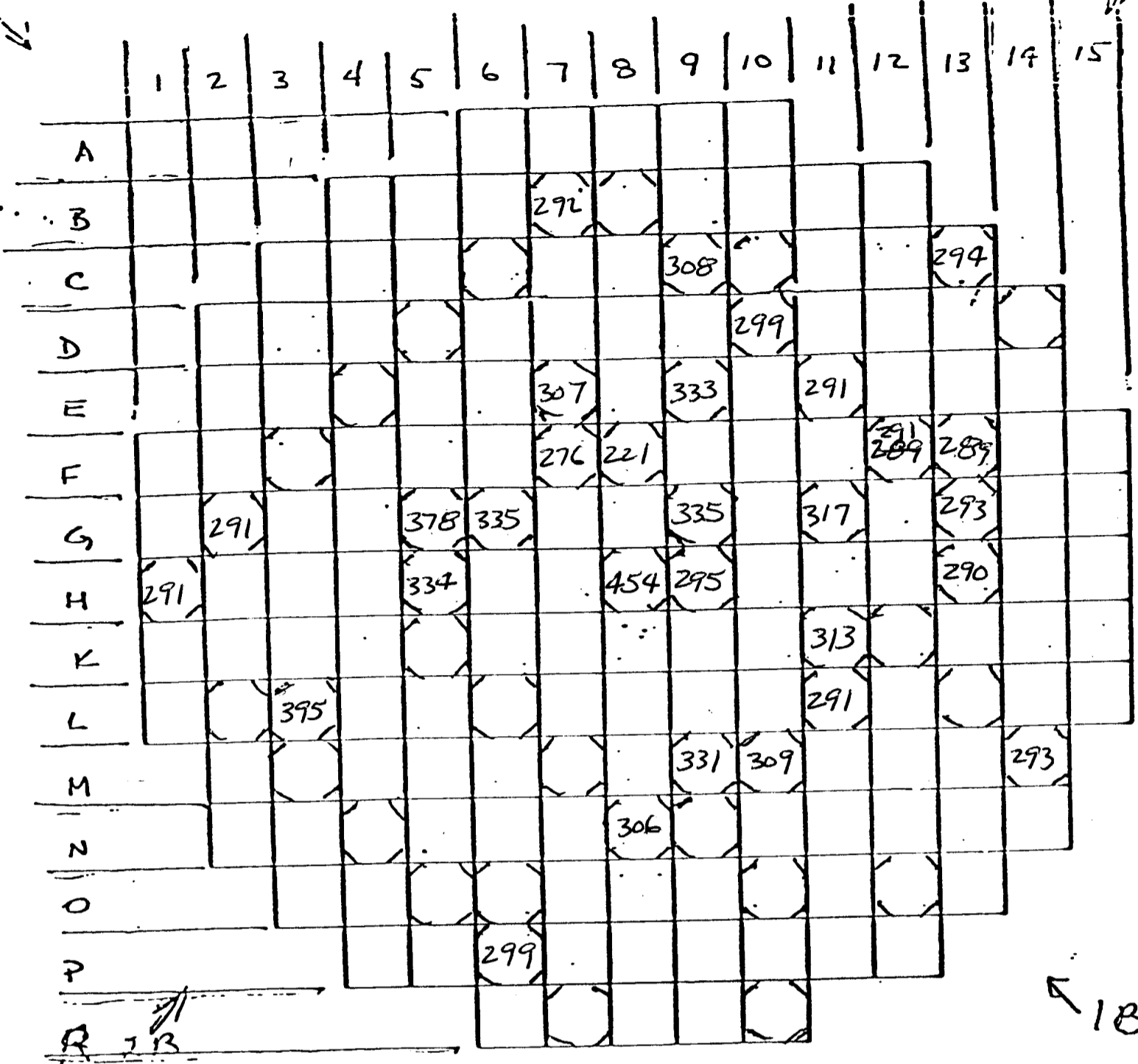
CONTAINMENT:

Pressure _____ Temp. _____ Level of Water _____

A cut

2A

1A



1B

Date 4/6/79

B out

Time 2000

Press. Pressure 1000

T_A inlet 287

T_B inlet 282

T pressure 550

L pressurizer 244

Press SGA _____

Press SGB _____

Letdown Flow 20 Estimate

Hydrogen Conc Inline: 1.65%

Recombiner 1.92%

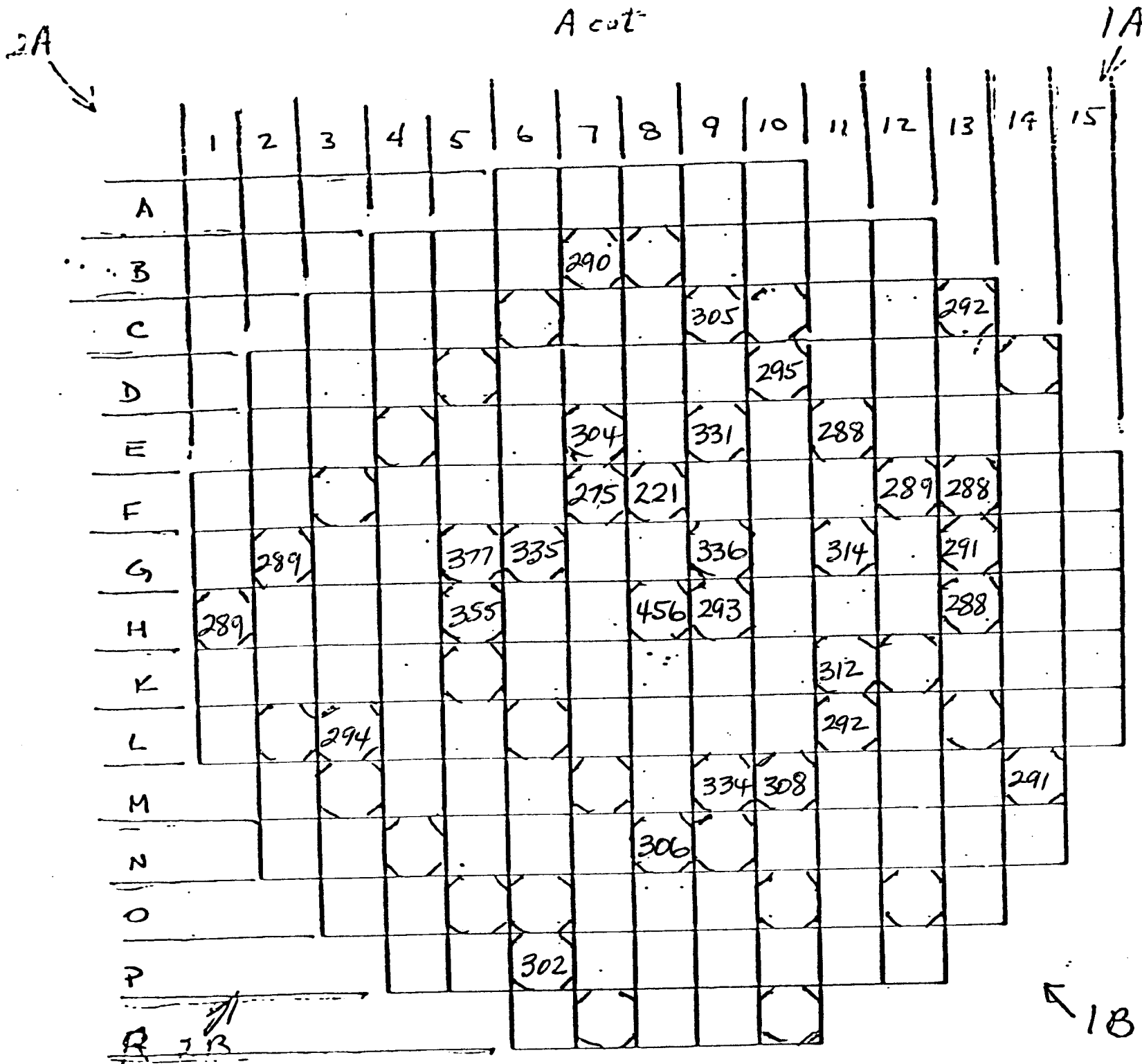
LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE 4

CONTAINMENT:

Pressure -1.2 Temp. 81 Level of Water 3" 5"



Date 4-6-79

B out

Time 2207

Press. Pressure 970

T_A inlet 285

T_B inlet 280

T pressure 545

L pressurizer 206

Press SGA _____

Press SGB _____

Letdown Flow 10

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UN



FIGURE 4

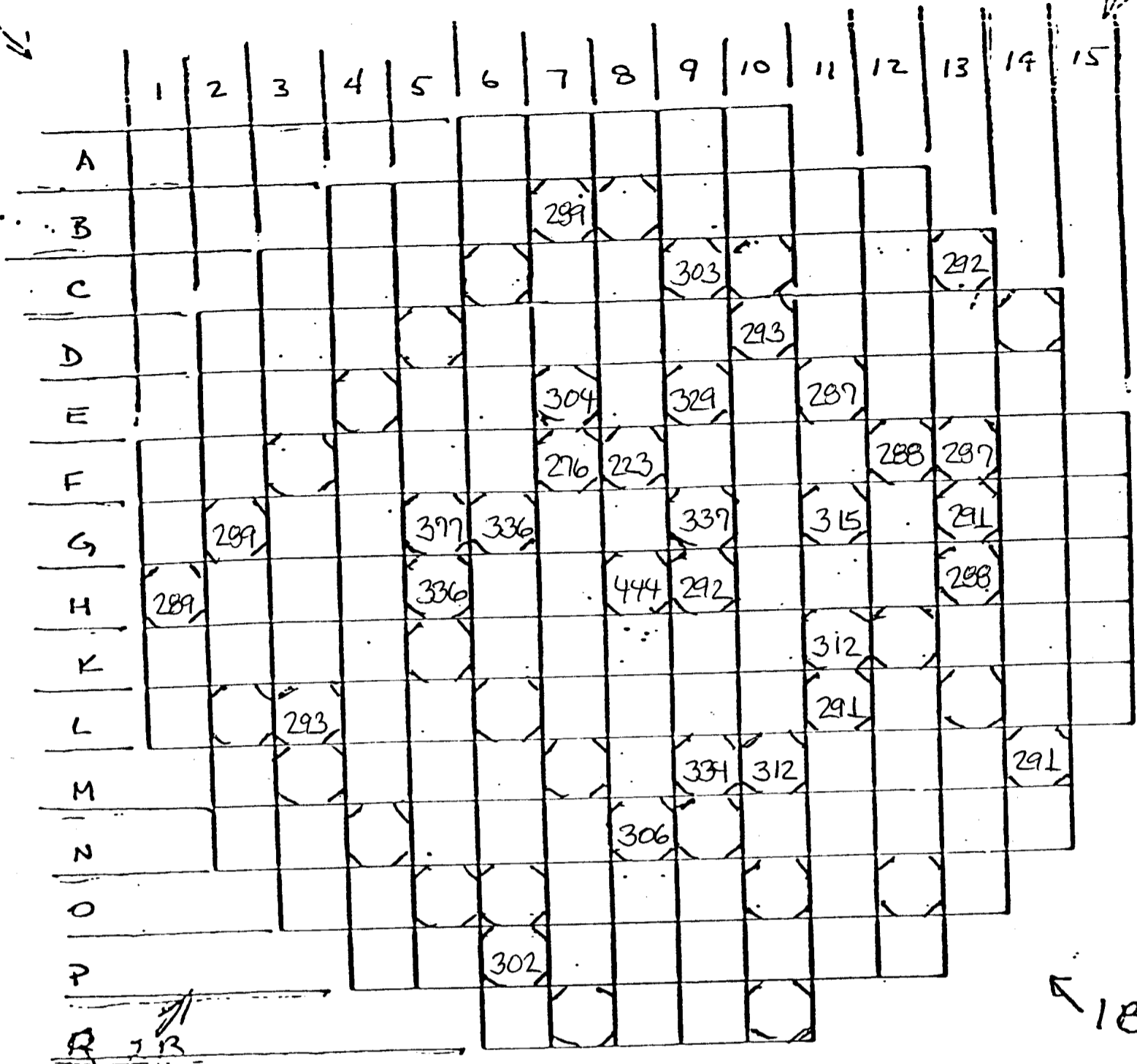
Hydrogen Conc Inline: 1.65 %
Recombiner 1.93 %

CONTAINMENT:
Pressure -1.2 Temp. 81 Level of Water 3' 5" Calc.

Acut

1A

2A



1B

Date 4/7/79

B out

Time 2400

Press. Pressure 950

TA inlet 284

TB inlet 286

T pressure 540

L pressurizer 200

Press SGA _____

Press SGB _____

Le down Flow 10 gpm

CONTAINMENT:

Pressure -1.2 Temp. 82 Level of Water _____

WGDT A 38
Press. B 36

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

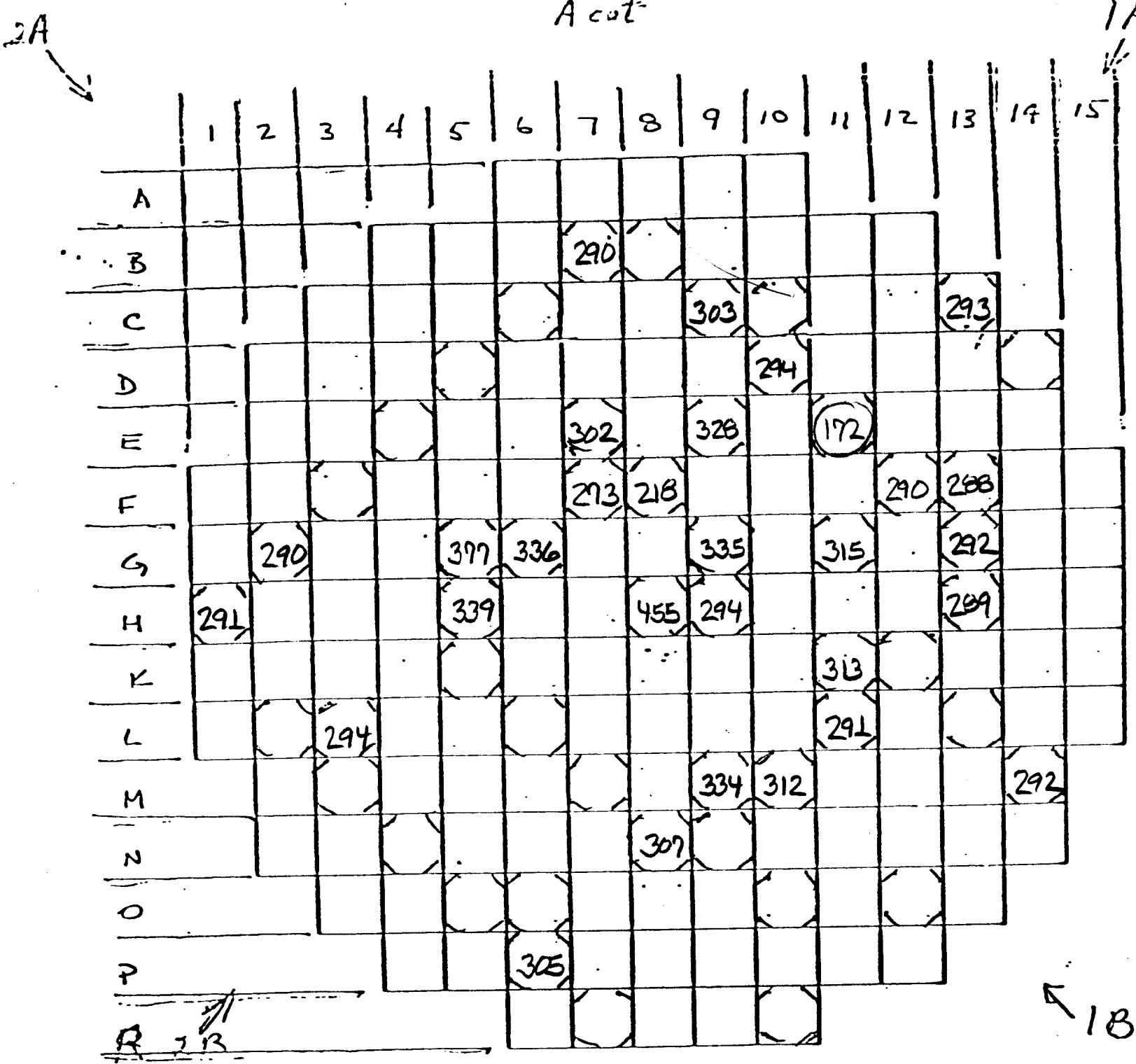
THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE 4

Note: white out tape 5/13/08

Hydrogen Conc Inline: 1.8 2045
Recombner 2.03



Date 4/7/79
 Time 0214
 Press. Pressure 1045
 A inlet 294
 B inlet 290
 T pressure 550
 L pressurizer 200
 Press SGA _____
 Press SGB _____
 Letdown Flow 26 (Calculated)

B out _____
 WADT Press. A 32
 B 34

LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1

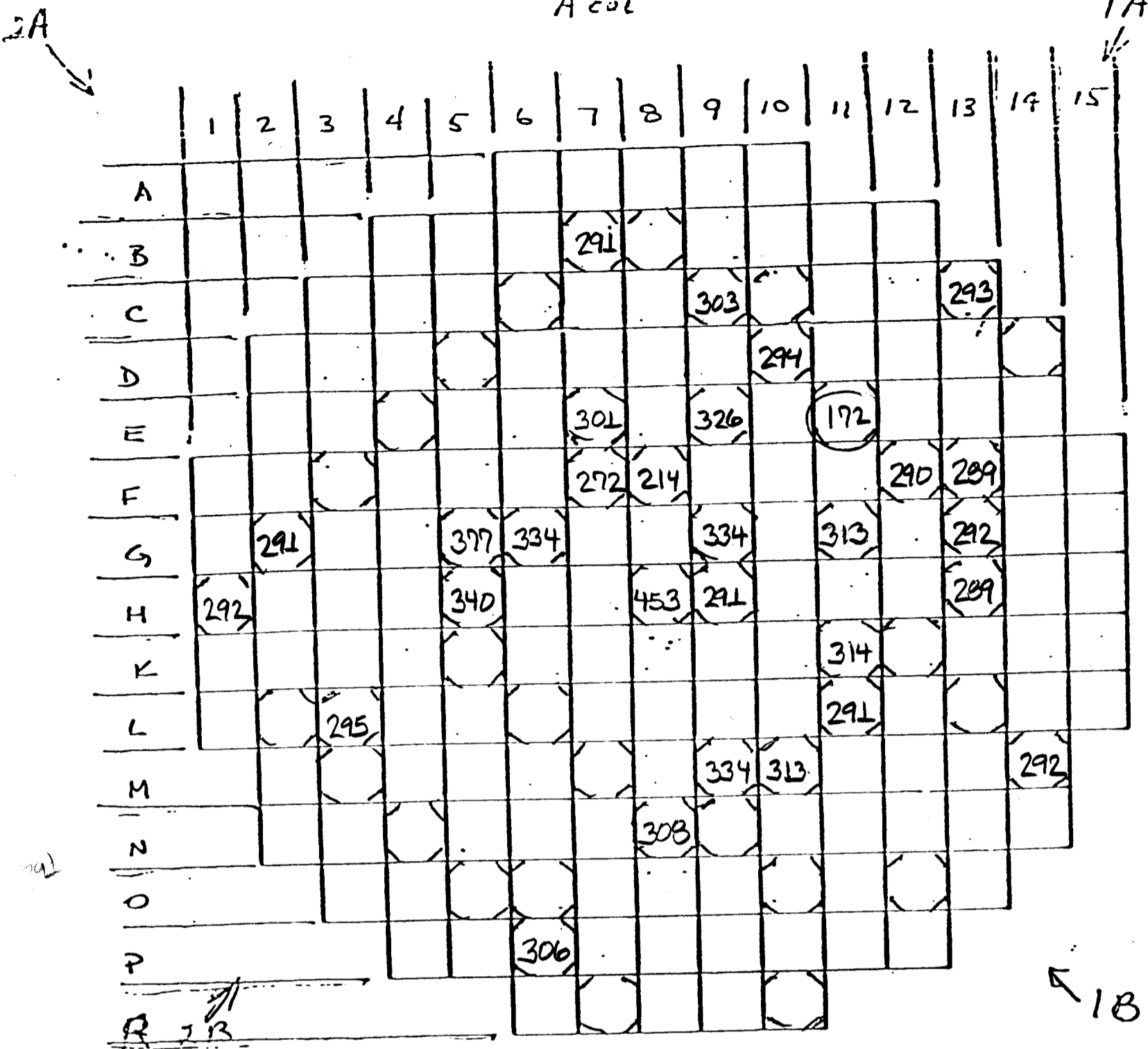


FIGURE 4

Hydrogen Conc Inline: _____
 Recombiner 2.07

CONTAINMENT:
 Pressure -1.2 Temp. 82 Level of Water _____

Acut



Date 4/7/79
 Time 0400 0316
 Press. Pressure 1075

B out

WGDT Press
 A 32
 B 30

TA inlet 285
 TB inlet 280
 T pressure 555
 L pressurizer 203
 Press SGA 371" / 14 psi
 Press SGB 353" / 13 psi
 Letdown Flow 10-20 gpm

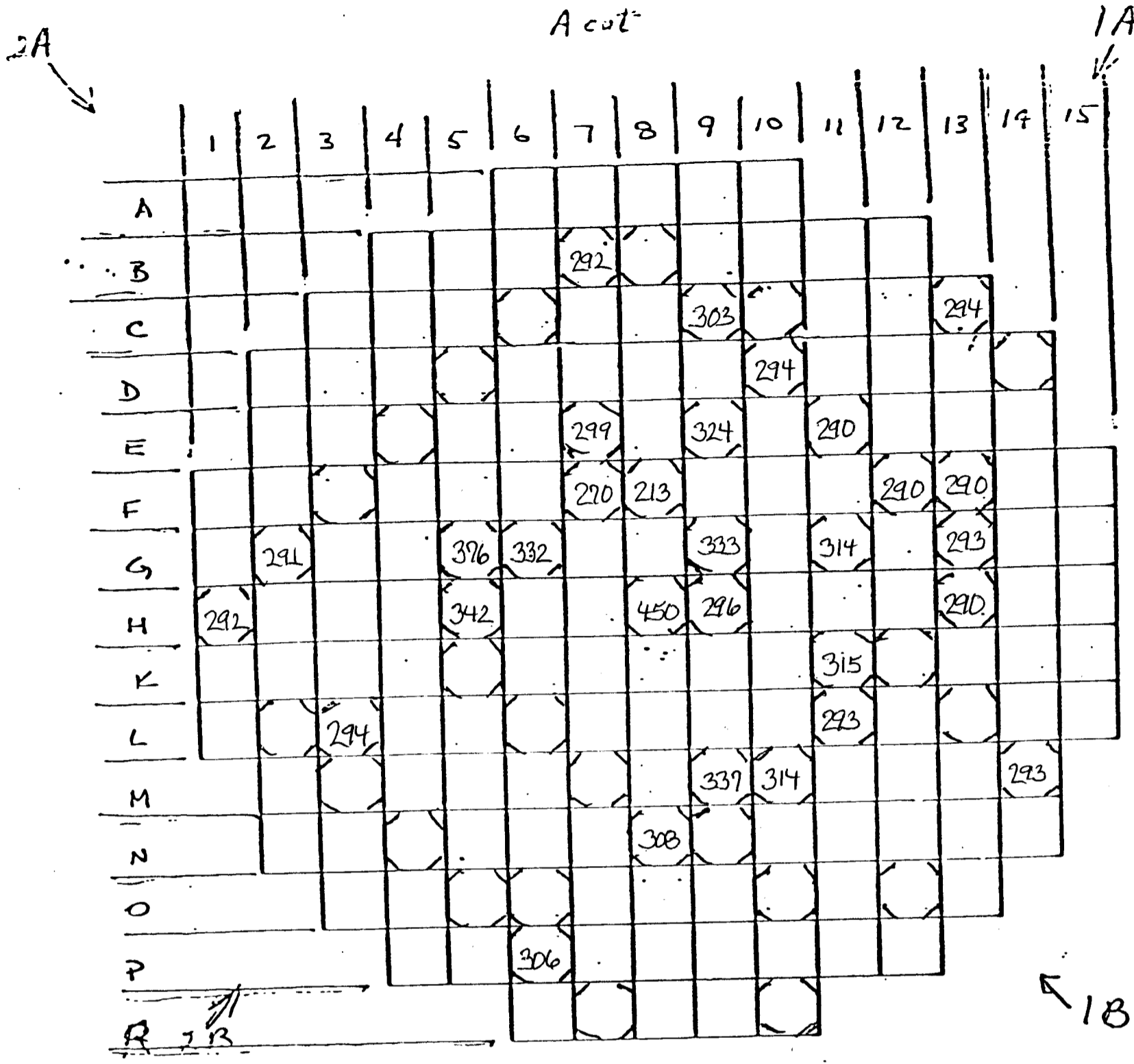
LOCATION OF FUEL ASSEMBLIES CONTAIN BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UN



FIGURE 4

Hydrogen Conc Inline: _____
 Recombiner 2.24

CONTAINMENT:
 Pressure 1.2 Temp. 82°F Level of Water _____




Date 4/7/79
 Time 0550
 Press. Pressure 1025
 T_A inlet 285
 T_B inlet 280
 T pressure 555
 L pressurizer 205
 Press SGA _____
 Press SGB _____
 Letdown Flow 26 Calculated

CONTAINMENT:
 Pressure 1.2 Temp. 82 Level of Water _____

B out

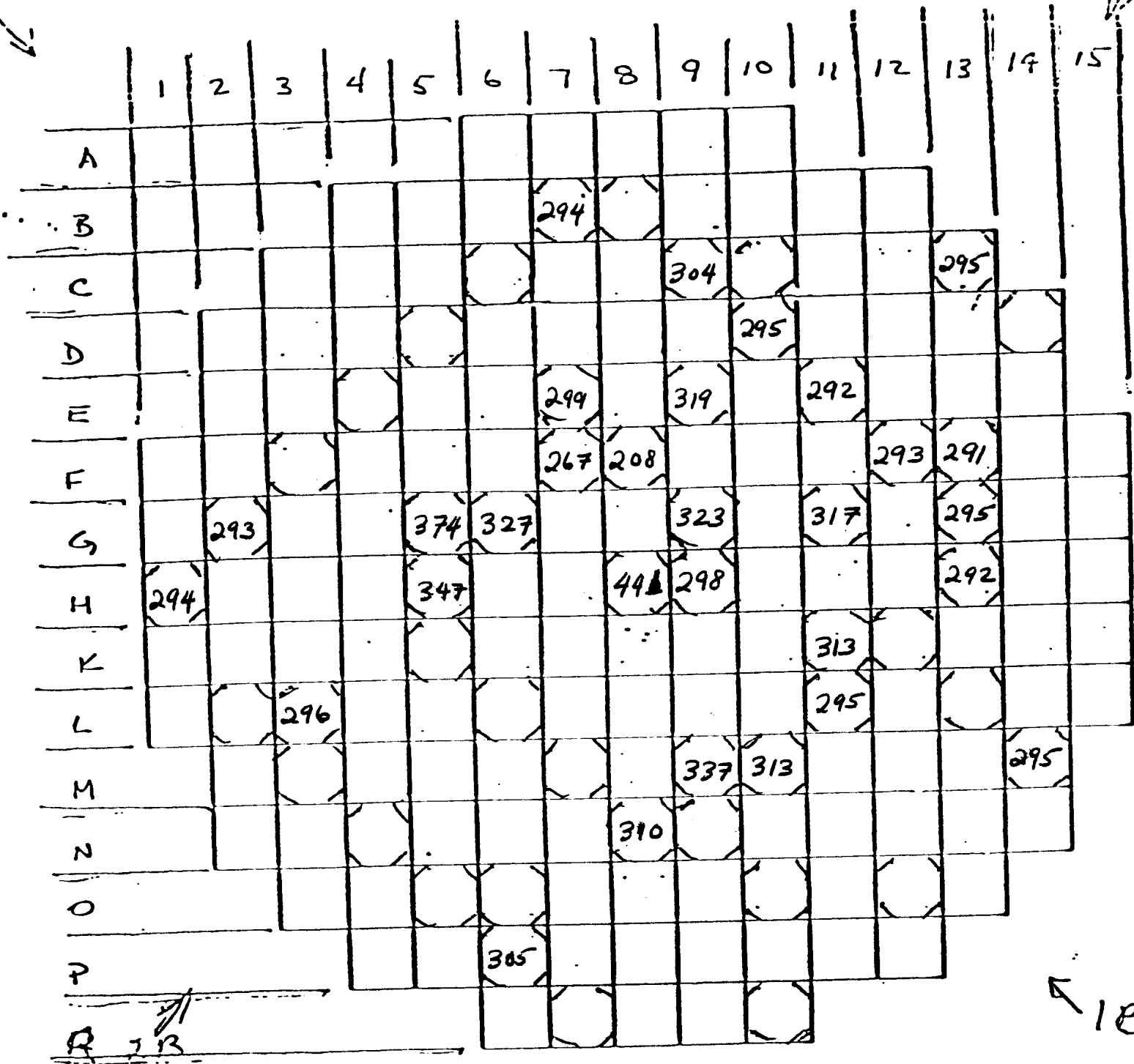
Hydrogen Conc Inline: _____
 Recombiner 2.05%

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1

 FIGURE 4

Acut

2A

1A



Date 4/7/79 0907

B out

Time 0930

Press. Pressure 1060 psig

T_A inlet 290 F

T_B inlet 285 F

T_{pressure} 548 F

L pressurizer 183"

Press SGA

Press SGB

Le down Flow not calculated yet

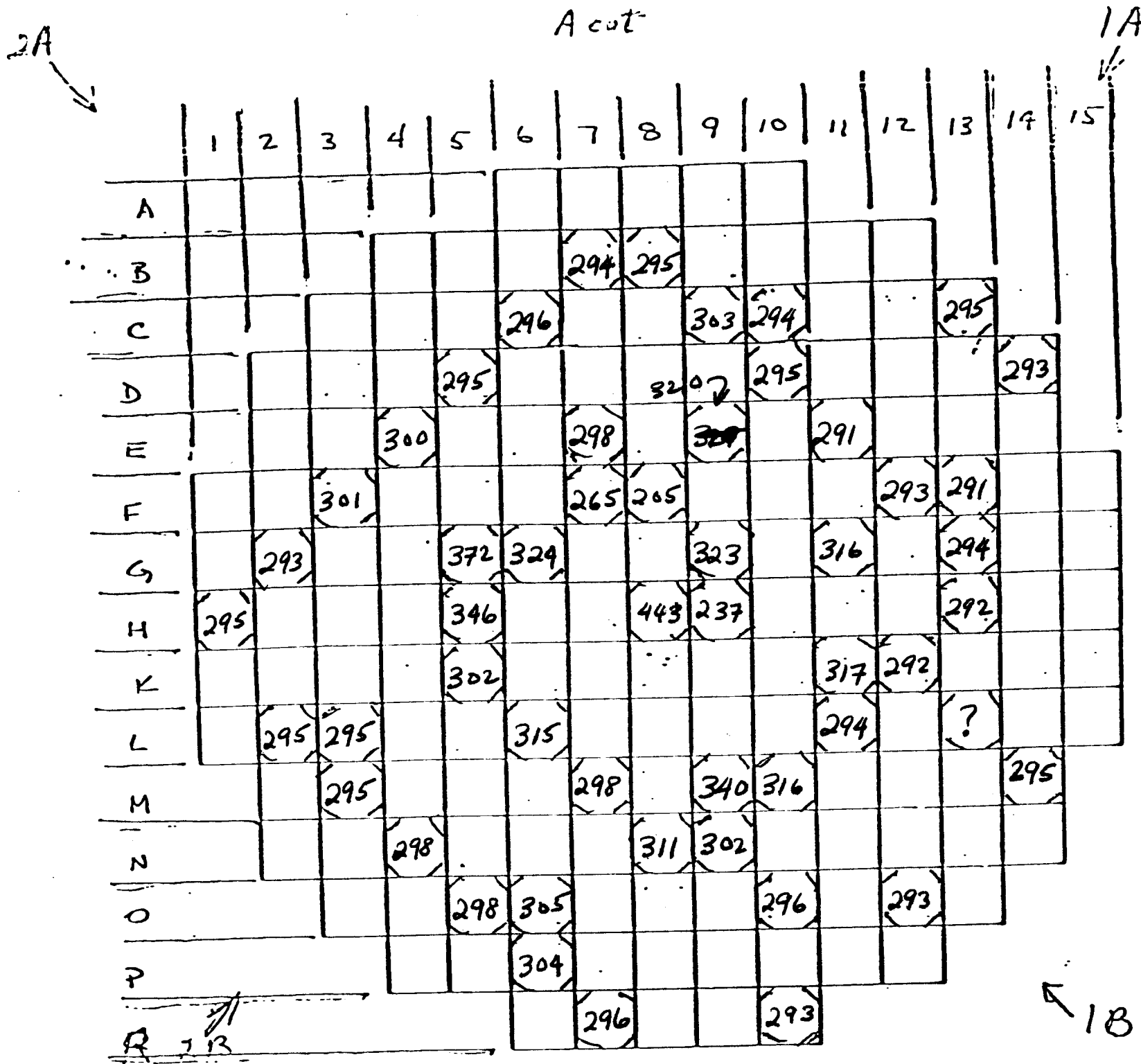
Hydrogen Conc Inline: @2045 46 1.8%
Recombiner @0700 1.88%

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE 4

CONTAINMENT Pressure 1.2 psig Temp. 82 F Level of Water



Date 4/7/79

B out

Time 1205

PARAMETERS @
1240

Press. Pressure 1060

T_A inlet 285

T_B inlet 285

T pressure 560

L pressurizer 153

Press SGA _____

Press SGB _____

Letdown Flow 20 Estimated

LOCATION OF FUEL ASSEMBLIES CONTAIN
BURNABLE POISON RODS
THREE MILE ISLAND NUCLEAR STATION UN

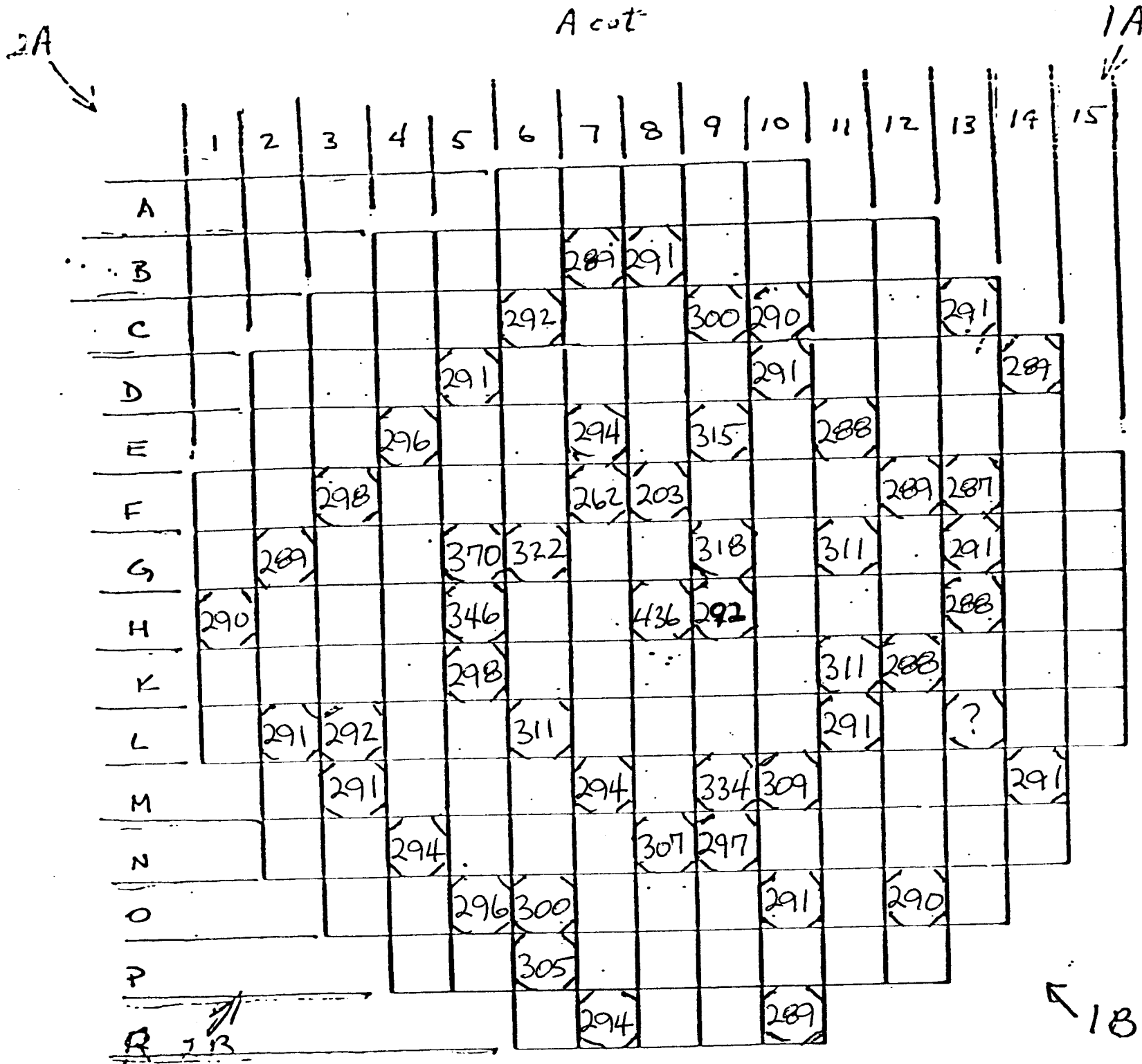


FIGURE 4

Hydrogen Conc Inline: 1.80
Recombiner 1.88 } 2095
3/6/79

CONTAINMENT:

Pressure -1.2 Temp. 82 Level of Water 3' 5"



Date 04/07/79
 Time 1440
 1500 parameters
 Press. 930
 TA inlet 285
 TB inlet 280
 T pressure 540
 L pressurizer 168
 Press SGA _____
 Press SGB _____
 Letdown Flow 16

B out
 Hydrogen Conc Inline: _____
 Recombiner 1.88

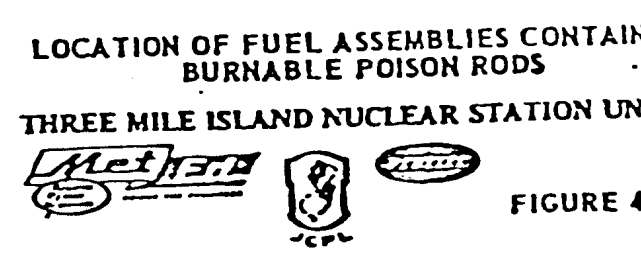


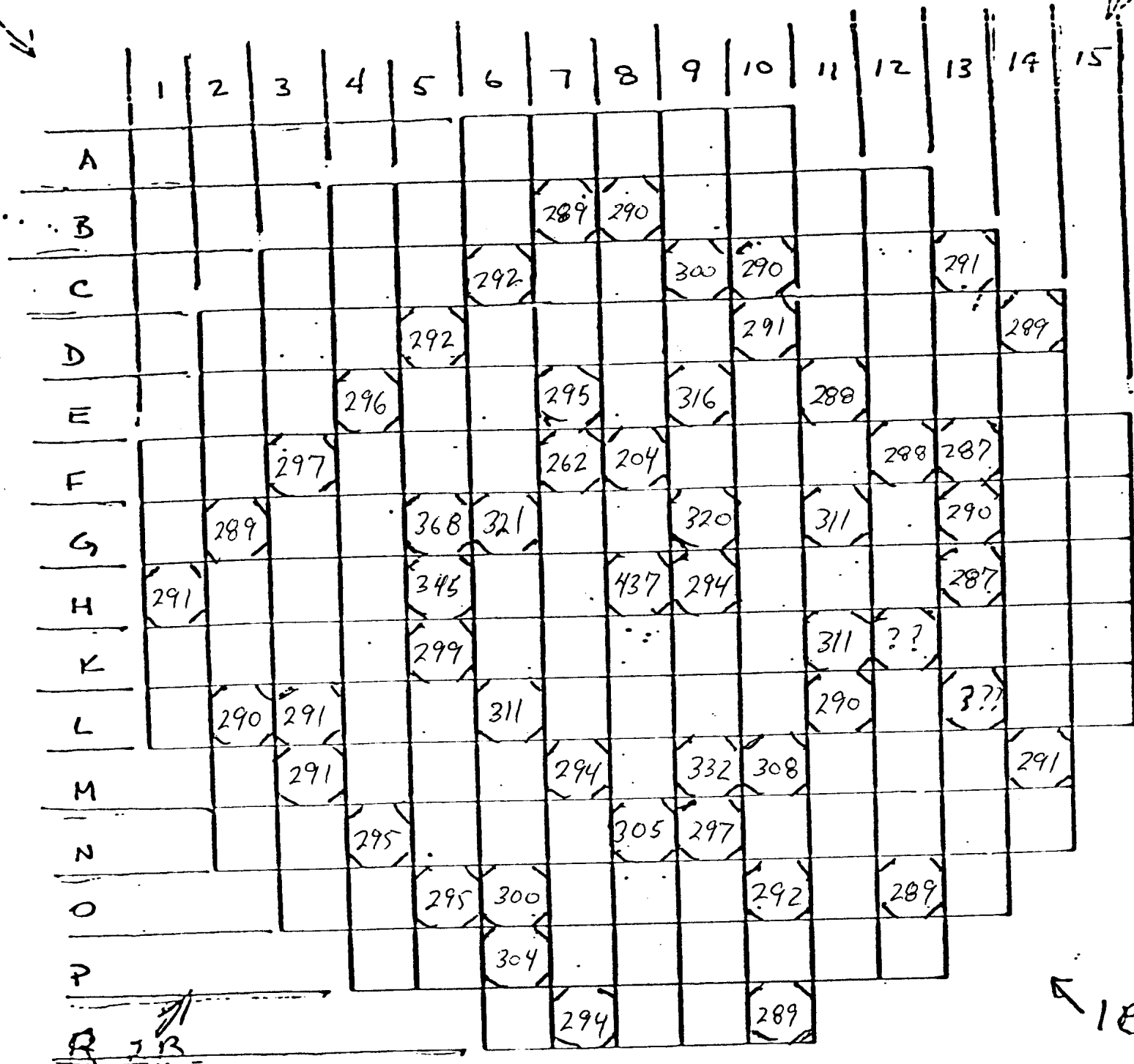
FIGURE 4

CONTAINMENT:
 Pressure -1.3 Temp. 82 Level of Water 3' 5"

A cut

1A

2A



1B

B out

Date _____
 Time 1645
 Press. Pressure 900#
 T_A inlet 285°
 T_B inlet 280°
 T pressure 555°
 L pressurizer 203"
 Press SGA _____
 Press SGB _____
 Letdown Flow 19 (est.)

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UN



FIGURE 4

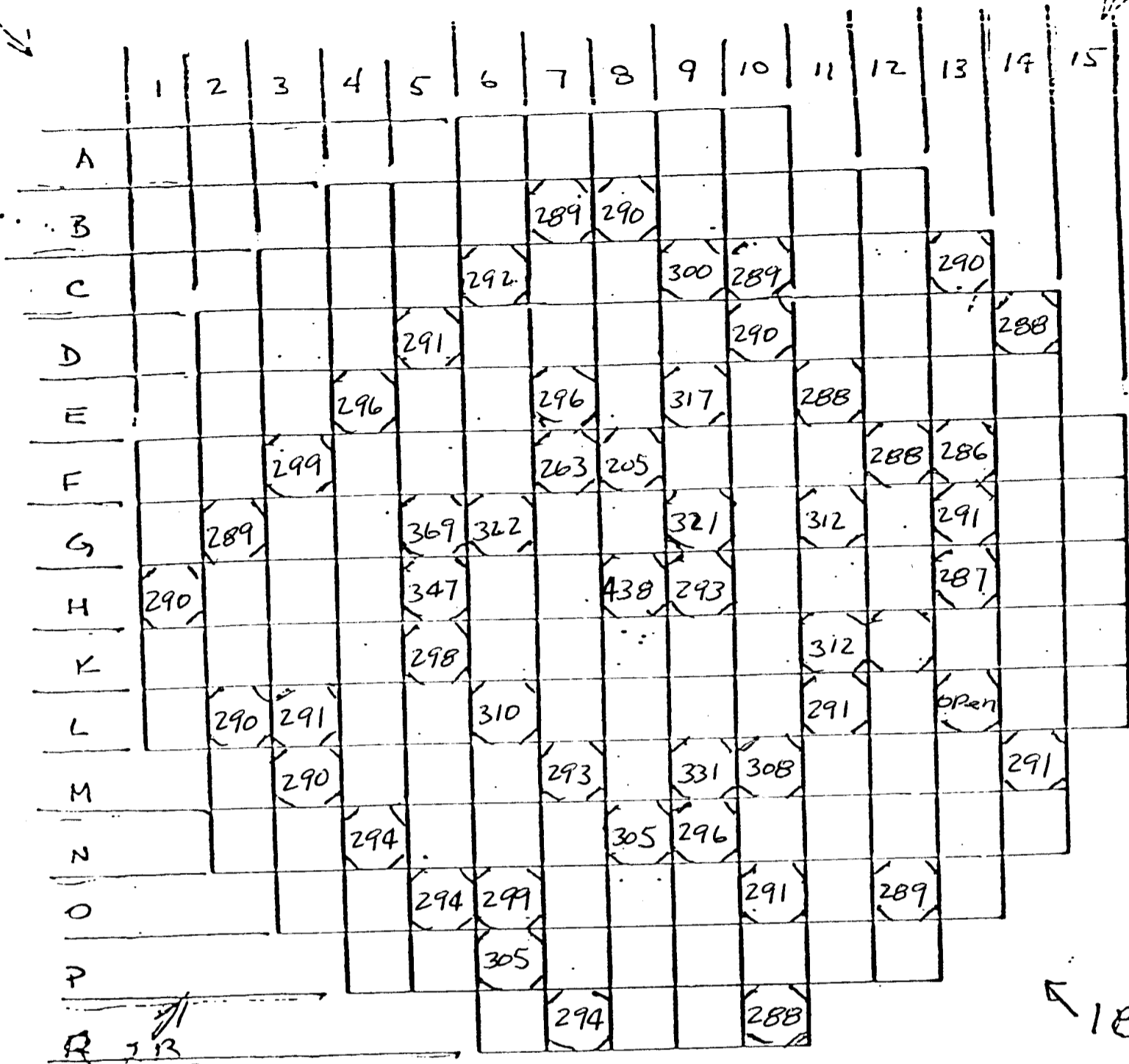
Hydrogen Conc Inline: 1.65%
 Recombiner 2.07%

CONTAINMENT:
 Pressure -1.3# Temp. 82° Level of Water _____

A cut

2A ↘

1A ↘



↖ 1B

Date 4/7/79

B out

Time 1800

Press. Pressure 900

T_A inlet _____

T_B inlet _____

T pressure 555

L pressurizer _____

Press SGA _____

Press SGB _____

Letdown Flow _____

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION UNIT 1

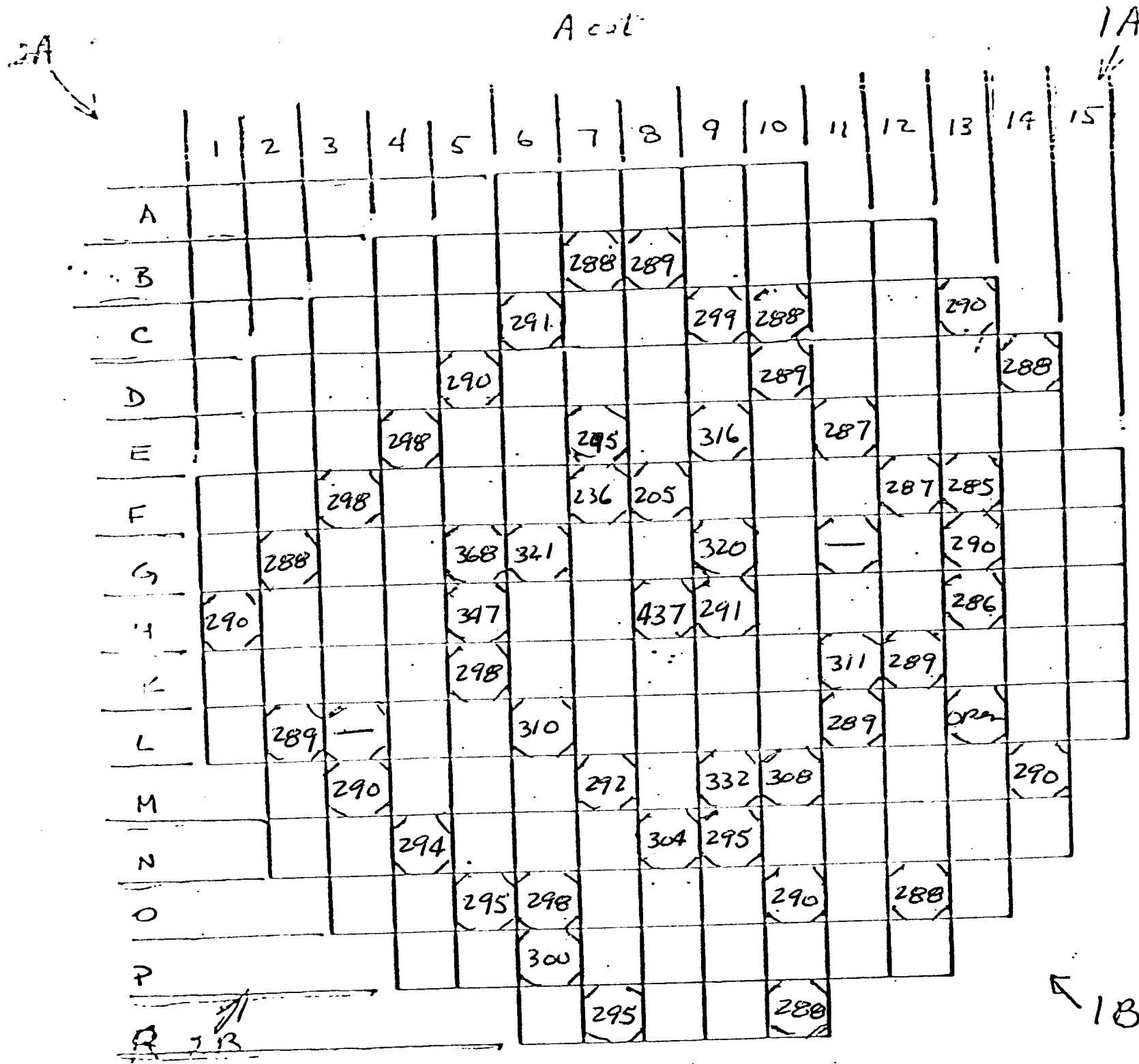


FIGURE

Hydrogen Conc Inline: _____
Recombiner _____

CONTAINMENT:

Pressure _____ Temp. _____ Level of Water _____



Date 4/7/79
 Time 2000
 Press. Pressure 825
 TA inlet 282
 TB inlet 279
 T pressure 536
 L pressurizer 200
 Press SGA _____
 Press SGB _____
 Letdown Flow _____

B out

Pump Shaft Vibration 8 mils.

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION



FIGURE

Hydrogen Conc Inline: 1.65 %
 Recombiner 1.97 %

CONTAINMENT:
 Pressure -1.3 Temp. 82 Level of Water _____

Spot 1.8 ^{9 miles}

Tc A 282
Tc B 279

P1 825 T. 536
200

g 2.0

Thermocouple Read-out Sequence

2000

2020

-8H	437	437	12F	287	10-0	290
9H	291		11G	—	12-0	288
9G	320		11E	287	14-M	290
8F	205		10D	289	13-L	—
9E	316		10C	288	14-D	288
7F	263		9C	299	13-C	290
7E	295		8B	289		
6G	321	322	7B	288		
5G	368	368	6C	291		
5H	3487	347	5D	290	Attached to 4/7/79	
5K	298		4E	298		2000 hrs
6L	310		3F	298		
7M	292		2G	288		
8N	304		1H	290		
9N	295		2L	289		
9M	332	332	3L	—		
10M	308		3M	290		
11L	289		4N	294		
11K	311		5-0	295		
12K	286		6-0	298		
13H	286		6P	300		
13G	290		7R	295		
13F	285		10R	288		

Attached to 4/7/79 2000 hrs

8
2039

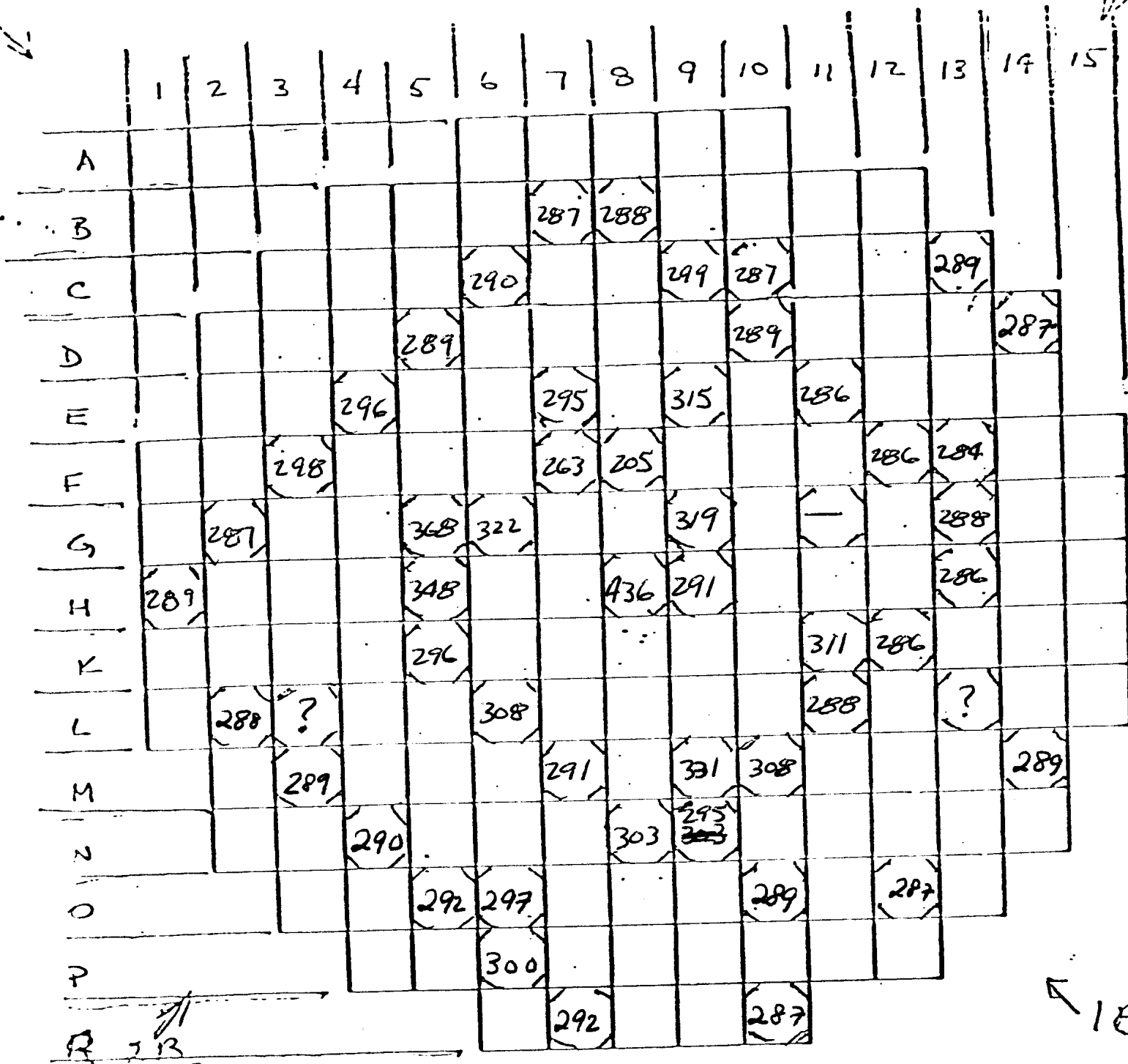
Thermocouple Read-out Sequence

8H	293 438	12F	288	10-0	291
9H	321 293	11G	312	12-0	289
9G	321	11E	288	14-M	291
8F	205	10D	290	13-L	
9E	317	10C	289	14-D	288
7F	203	9C	300	13-C	290
7E	290	8B	290		
6G	322	7B	289		
5G	307	6C	292		
5H	347	5D	291		
5K	298	4E	296		
6L	310	3F	299		
7M	293	2G	289		
8N	305	1H	290		
9N	290	2L	290		
9M	331	3L	291		
10M	308	3M	290		
11L	291	4N	294		
11K	312	5-0	294		
12K		6-0	299		
13H	287	6P	305		
13G	291	7R	294		
13F	285	10R	288		

A cut

3A

1A



1B

Date 4/7/79 4/7/79 B out
 Time 2039 2034
 Press. Pressure 751 775
 T_A inlet 281 280
 T_B inlet 278 276
 T pressure 528 530
 L pressurizer 197 195
 Press SGA _____
 Press SGB _____
 Letdown Flow _____

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION UNIT 1



FIGURE

Hydrogen Conc Inline: _____
 Recombiner _____

CONTAINMENT:
 Pressure _____ Temp. _____ Level of Water _____

Thermocouple Read-out Sequence

2039

8H	434	12F	286	10-0	289
9H	291	11G	—	12-0	287
9G	319	11E	286	14-M	289
8F	205	10D	289	13-L	—
9E	315	10C	287	14-D	287
7F	263	9C	299	13-C	289
7E	295	8B	288		
6G	322	7B	287		
5G	368	6C	290		
5H	348	5D	289		
5K	296	4E	296		
6L	308	3F	298		
7M	291	2G	287		
8N	303	1H	289		
9N	295	2L	288		
9M	331	3L	—		
10M	308	3M	289		
11L	288	4N	290		
11K	311	5-0	292		
12K	286	6-0	297		
13H	286	6P	300		
13G	288	7R	292		
13F	284	10R	287		

8mils

P_r 775 T_{CA} 280
B 276

PL 195
P_T 530

2034 Thermocouple Read-out Sequence

4/7/79

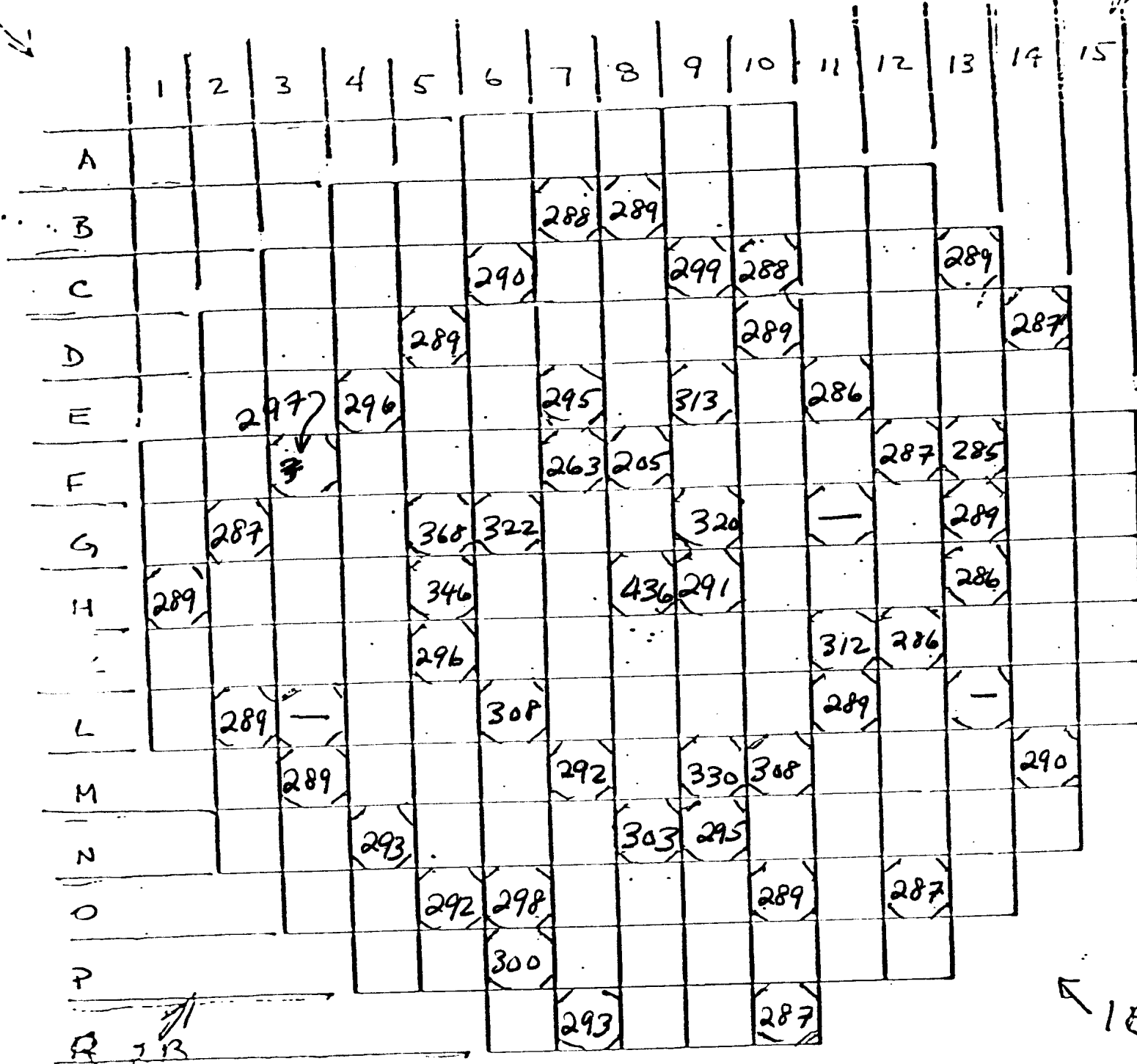
2039 751^A 281
B 278 L 197 J 28

8H	437	43C	12F	10-O
9H			11G	12-O
9G			11E	14-M
8F			10D	13-L
9E			10C	14-D
7F			9C	13-C
7E			8B	
6G	331	322	7B	Attached to 4/7/79
5G	384 368	368	6C	2039 hrs
5H	347	348	5D	
5K			4E	
6L			3F	
7M			2G	
8N			1H	
9N			2L	
9M	332	331	3L	
10M			3M	
11L			4N	
11K			5-O	
12K			6-O	
13H			6P	
13G			7R	
13F			10R	

A cut

2A

1A



Date 4/7/79
 Time 2055

B out

Press. Pressure _____

T_A inlet _____

T_B inlet _____

T pressure _____

L pressurizer _____

Press SGA _____

Press SGB _____

Le tdown Flow _____

LOCATION OF FUEL ASSEMBLIES CONTAINING
 BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION



FIGURE

Hydrogen Conc Inline: _____
 Recombiner _____

CONTAINMENT:
 Pressure _____ Temp. _____ Level of Water _____

Attached to 4/7/79 2055 hrs

Thermocouple Read-out Sequence

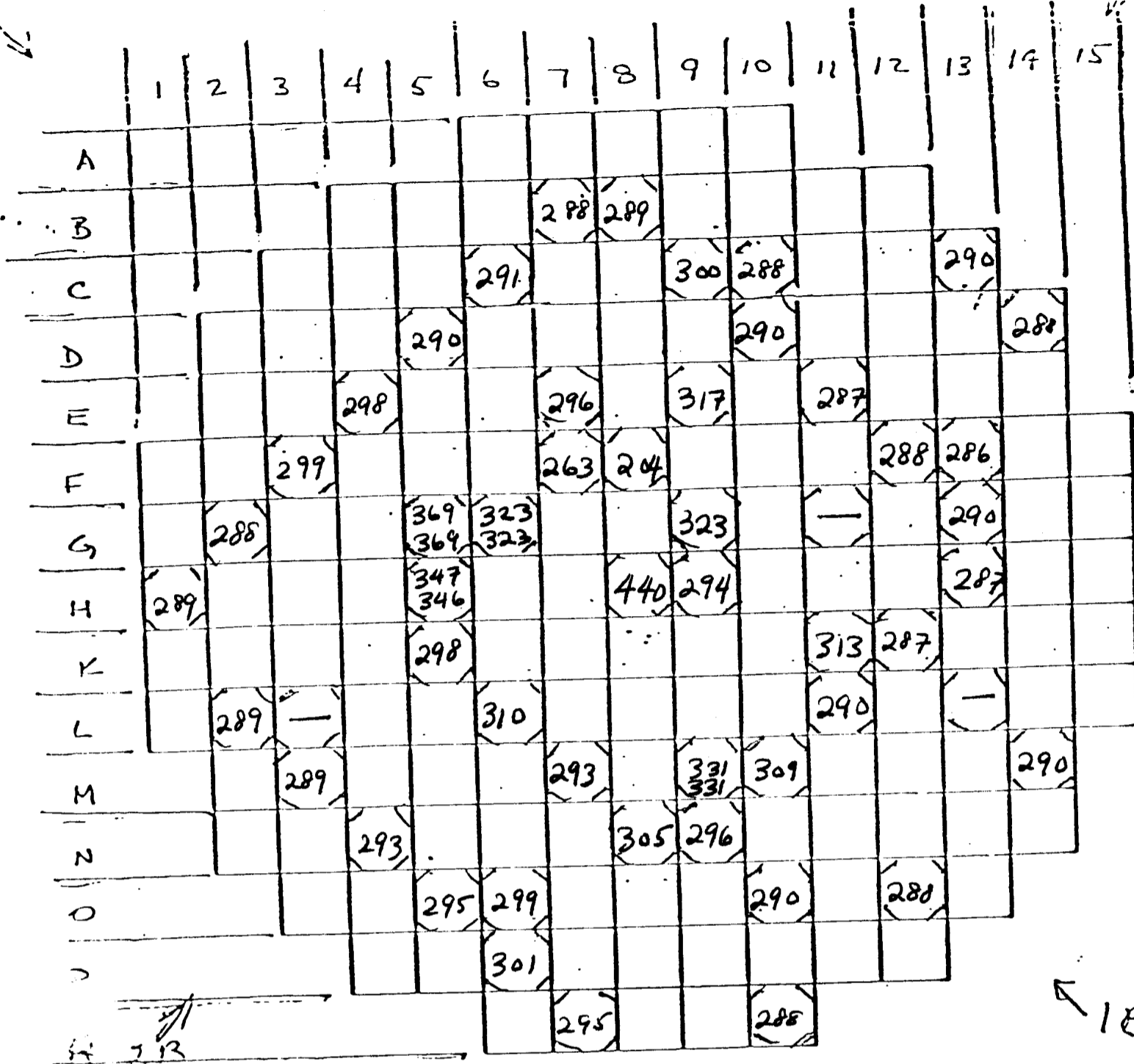
07 2055

8H	436	12F	287	10-O	289
9H	291	11G	—	12-O	287
9G	320	11E	286	14-M	290
8F	205	10D	289	13-L	—
9E	315	10C	288	14-D	287
7F	263	9C	299	13-C	289
7E	295	8B	289		
6G	322	7B	288		
5G	368	6C	290		
5H	346	5D	289		
5K	296	4E	296		
6L	308	3F	297		
7M	292	2G	287		
8N	303	1H	289		
9N	295	2L	289		
9M	330	3L	—		
10M	308	3M	289		
11L	289	4N	293		
11K	312	5-O	292		
12K	286	6-O	298		
13H	286	6P	300		
13G	289	7R	293		
13F	285	10R	287		

Acut

2A

1A



Date 4/7/79 B out
 Time 2206 2ND TC lead @ 2220 (NE)

Press. Pressure 796 psig

TA inlet 281 F

TB inlet 278 F

Pressure 523 F

Pressurizer 201"

Press SGA _____

Press SGB _____

Leakdown Flow 19 gpm

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS
 THREE MILE ISLAND NUCLEAR STATION



FIGURE

Hydrogen Conc Inline: _____
 Recombiner 2.07 %

CONTAINMENT:

Pressure N/C Temp. N/C Level of Water _____

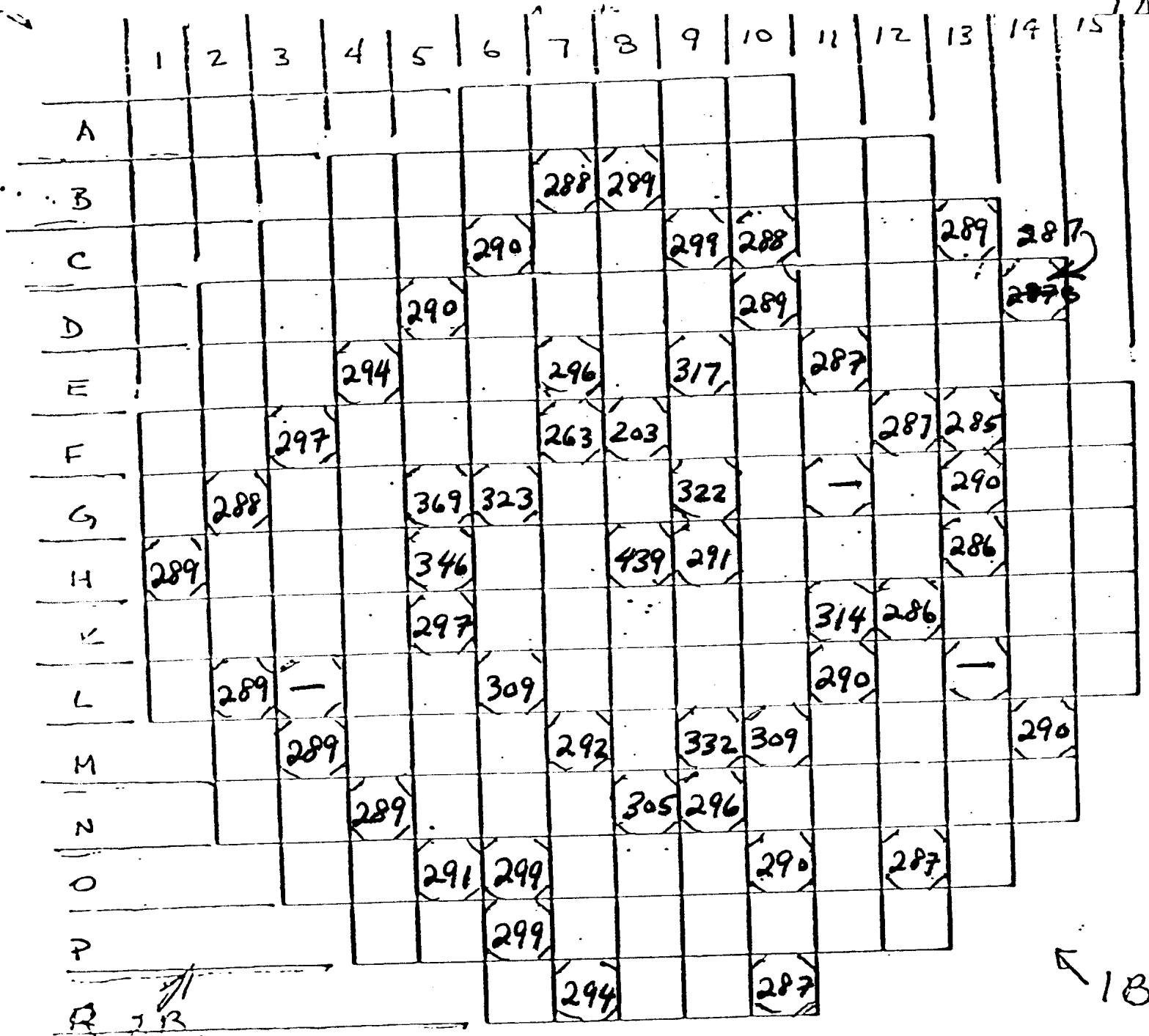
Attached to 4/7/79 2206 hrs

Thermocouple Read-out Sequence

07 2206

2220 2231

	2220	2231		
8 H	440	446	439	12 F 288
9 H	294			11 G —
9 G	323			11 E 287
8 F	264			10 D 290
9 E	317			10 C 288
7 F	263			9 C 300
7 E	296			8 B 289
6 G	323	323	323	7 B 288
5 G	369	369	369	6 C 291
5 H	347	346	345	5 D 290
5 K	298			4 E 298
6 L	310			3 F 299
7 M	293			2 G 288
8 N	305			1 H 289
9 N	296			2 L 289
9 M	331	331	333	3 L —
10 M	309			3 M 289
11 L	290			4 N 293
11 K	313			5 O 295
12 K	287			6 O 299
13 H	287			6 P 301
13 G	286 290			7 R 295
13 F	288 286			10 R 288



Date 4/7/79 Stab pt B out
 Time 2219 2231 2236

Press. Pressure 754 psi 731 psi 702 psi

A inlet 281 F 281 F 281

B inlet 278 F 278 F 278

Pressure 523 F 522 F 522 F

Pressurizer 202" 202" 202"

Press SGA _____

Press SGB _____

Letdown Flow _____

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

THREE MILE ISLAND NUCLEAR STATION



FIGURE

Re Vibs
 brng 1.8 mils
 shaft 8 mils
 Hydrogen Conc

Inline: _____
 Recombiner _____

CONTAINMENT:

Pressure _____ Temp. _____ Level of Water _____

Thermocouple Read-out Sequence

072236

8H 439	12 F 287	10-O 290
9H 291	11 G —	12-O 287
9G 322	11 E 287	14-M 290
8F 203	10 D 289	13-L —
9E 317	10 C 288	14-D 287
7F 263	9 C 299	13-C 289
7E 296	8 B 289	
6G 323	7 B 288	
5G 369	6 C 290	
5H 346	5 D 290	
5K 297	4 E 294	
6L 309	3 F 297	
7M 292	2 G 288	
8N 305	1 H 289	
9N 296	2 L 289	
9M 330	3 L —	
10M 309	3 M 289	
11 L 290	4 N 289	
11 K 314	5-O 291	
12 K 286	6-O 299	
13 H 286	6 P 299	
13 G 290	7 R 294	
13 F 285	10 R 287	

Pressurizer _____
 Press SGA _____
 Press SGB _____
 Letdown Flow _____

211
 pump vibs
 bng 1.8 mils
 shaft

Hydrogen Conc Inline: _____
 Recombiner _____

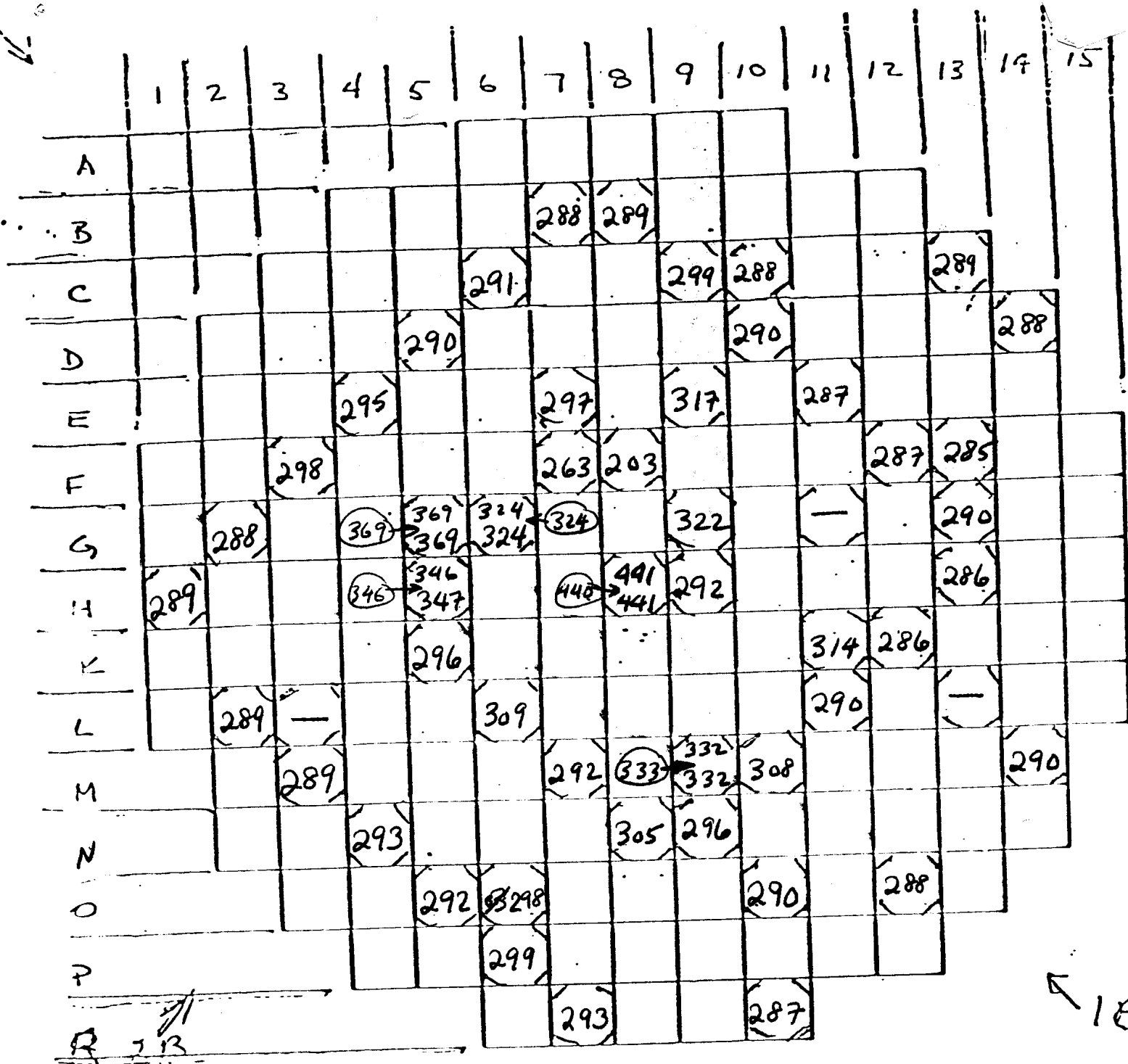
CONTAINMENT:
 Pressure _____ Temp. _____ Level of Water _____

Attached to 4/7/79 2245 hrs

Thermocouple Read-out Sequence

8 H	441	12 F	286	10-O	289
9 H	292	11 G	—	12-O	287
9 G	322	11 E	286	14-M	289
8 F	203	10 D	289	13-L	—
9 E	317	10 C	288	14-D	287
7 F	263	9 C	299	13-C	289
7 E	296	8 B	288		
6 G	323	7 B	288		
5 G	369	6 C	290		
5 H	346	5 D	289		
5 K	297	4 E	295		
6 L	310	3 F	297		
7 M	292	2 G	287		
8 N	304	1 H	289		
9 N	295	2 L	288		
9 M	331	3 L	—		
10 M	308	3 M	288		
11 L	290	4 N	293		
11 K	314	5-O	292		
12 K	286	6-O	297		
13 H	286	6 P	298		
13 G	289	7 R	293		
13 F	285	10 R	287		

A cut



Date 4/7/79

Time 2300 B

Pressure 751 psig

T_A inlet 281 F

T_B inlet 278 F

T_{pressure} 519 F

Pressurizer 225"

Press SGA _____

Press SGB _____

Letdown Flow _____

CONTAINMENT:

Pressure _____ Temp. _____ Level of Water _____

B out

top number 2330 4/7 for double entries
 future data: full set of T/C's at stabilized
 reduced pressure. 5 high T/C's @
 former pressure + 50 psi, former pressure
 and 25 psi increments to new pressure.
 Inspector scan each readout for changes.

LOCATION OF FUEL ASSEMBLIES CONTAINING BURNABLE POISON RODS

2400 TC's 5 high NC other TC's

THREE MILE ISLAND NUCLEAR STATION



FIGURE

Hydrogen Conc Inline: _____
 Recombiner _____

Attached to 4/7/79 2345 hrs

Thermocouple Read-out Sequence

072345

8 H 441	12 F 287	10-O 290
9 H 292	11 G —	12-O 288
9 G 322	11 E 287	14-M 290
8 F 203	10 D 290	13-L —
9 E 317	10 C 288	14-D 288
7 F 263	9 C 299	13-C 289
7 E 297	8 B 289	
6 G 324	7 B 288	
5 G 369	6 C 291	
5 H 347	5 D 290	
5 K 296	4 E 295	
6 L 309	3 F 298	
7 M 292	2 G 288	
8 N 305	1 H 289	
9 N 296	2 L 289	
9 M 332	3 L —	
10 M 308	3 M 289	
11 L 290	4 N 293	
11 K 314	5-O 292	
12 K 286	6-O 298	
13 H 286	6 P 299	
13 G 290	7 R 293	
13 F 285	10 R 287	