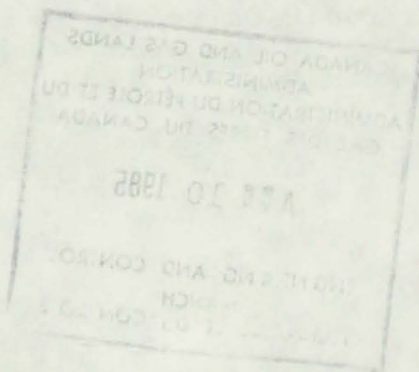


DST 1



MICROFILMED
SUR MICROFILM

REF#:C-70-999-66110-66

PCI ET AL TWEED LAKE M-47
400/ 66.564 / 125.540 /00
DST#01
1212.00m to 1227.00m
TIGHT HOLE

TEST DATE: 85/02/08

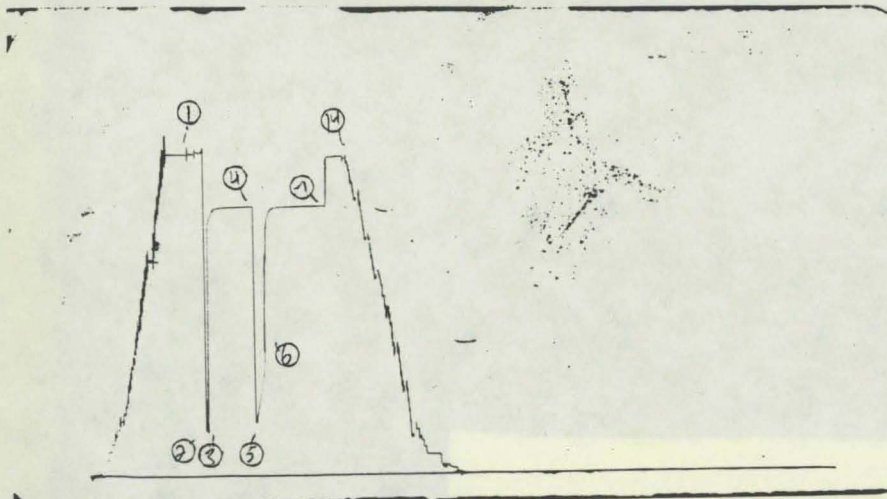
Cogh
Ottawa

DEPTH: 1214.00m

PRESSURE
kPa(a)

- 1) Initial Hydro : 15186.
- 2) 1st Flow Start: 2327.
- 3) 1st Flow End : 1999.
- 4) END 1st Shutin: 12807.
- 5) 2nd Flow Start: 2689.
- 6) 2nd Flow End : 5619.
- 7) END 2nd Shutin: 12824.
- 14) Final Hydro. : 15117.

TEST TIMES (MIN)
1st FLOW : 2.
SHUTIN: 91.
2nd FLOW : 18.
SHUTIN: 118.



RECOVERY DATA

THIS TEST WAS RUN UNDER CLOSED CHAMBER CONDITIONS. TOTAL FLUID RECOVERY CONSISTED OF 65.00 M OF SLIGHTLY GAS CUT MUD.

REMARKS AND TEST SUMMARY

Test results indicate a mechanically successful test. Bottom hole pressures and the shape of the shut-in curves suggest RELATIVELY HIGH PERMEABILITY within the interval tested.

The initial shut-in stabilized in 30 minutes at 12 807.00 kPa and the final shut-in stabilized in 58 minutes at 12 824.00 kPa, therefore no extrapolations were performed.

No pipe tally data available.

A Closed Chamber report is included.

TABLE OF CONTENTS

PAGE 1
General Data
Blow Description
Liquid Recovery
Gas Measurements

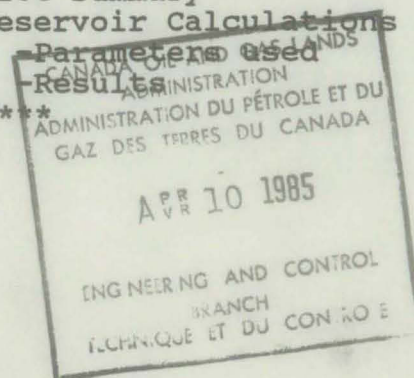
PAGE 2
Tool Sequence
Recorder Summary
Mud and Hole Data

PAGE 3
PRESSURE
-TIME
LISTING

PAGE 4
Plot Summary
Reservoir Calculations

***** RECORDER PAGES & FIGURES *****

MICROFILMED
SUR MICROFILM:



Well name : PCI ET AL TWEED LAKE M-47
Location : 400/ 66.564 / 125.540 /00
Interval : 1212.00m to 1227.00m
Test Date : 85/02/08
Test Type : DUAL CONVENTIONAL BOTTOM HOLE
Formation : TIGHT HOLE

K.B.Elevation : 435.22m
Grd.Elevation : 429.10m
TD @ test Date: 1227.00m
Ticket Number : 66110
Unit Number :

Started in hole at : 1830 hrs
Tool opened at : 2200 hrs
Reverse circulated?: NO
Contractor & Rig No: ATCO #76
Lynes#1 : 1 of 1 on the same trip.

Operator: PETRO-CANADA INC.
ROOM 937 WEST
150 - 6TH AVE. S.W.
CALGARY ALBERTA
T2P3E3

Company Rep : HOPE Y
Testers : BABYAK R

5 REPORTS(S) TO: PAUL BAZINET
Company:

BLOW DESCRIPTION

Closed Chamber test run with Lynes United Services.

TOTAL LIQUID RECOVERY : 65.00m

For DST# 1 through DST# 1

3 Fluid Samples

Sent to: CORE LABS

Sample Salinity :120000.0g/m3

Btm. Hole Sampler #: 221

Sent to: CORE LABS

65.00m SLIGHTLY GAS CUT MUD.

GAS MEASUREMENTS

Bomb#: 7255
Sent to: CORE LABS

No Gas Measurements

TOOL SEQUENCE

SUB

LENGTH
(m)

RECORDER SUMMARY

- 1) NUMBER : 001749 ELECTRONIC GAUGE.
TYPE : DMRB PRESSURES AND
LOCATION: OUTSIDE TEMPERATURE.
RANGE: 68900.00kPa (a)
DEPTH : 1214.00m
- 2) NUMBER : 008887 ABOVE HYDRAULIC
TYPE : K-3 TOOL RECORDER.
LOCATION: INSIDE
RANGE: 20000.00kPa
DEPTH : 1203.00m
- 3) NUMBER : 013480
TYPE : K-3
LOCATION: OUTSIDE
RANGE: 20000.00kPa
DEPTH : 1214.00m
- 4) NUMBER : 014103 ABOVE INTERVAL
TYPE : K-3 RECORDER.
LOCATION: INSIDE
RANGE: 20000.00kPa
DEPTH : 1205.00m
- 5) NUMBER : 017737
TYPE : K-3
LOCATION: OUTSIDE
RANGE: 21000.00kPa
DEPTH : 1214.00m

***** TOOL TOTAL

DRILL COLLARS

ID= 72.0mm: 917.05
ID= :

DRILL PIPE

OD=114.3mm:
OD= :

COLLAR-PIPE TOTAL 917.05

STICK UP ABOVE TABLE :
TOOL ABOVE INTERVAL :
TOTAL INTERVAL :
BOTTOM CHOKE SIZE: 12.70 mm

MUD AND HOLE DATA

Calipered Hole Size @ Test Depth: Water Loss : 14.0cc/s
Hole Condition at Test Time : Filter Cake: 1.5 mm
Hole Conditioned Prior to Test? : YES
Mud Weight : 1275.0 kg/m3 Main Hole Size: 216.00mm
Mud Type : SALT GEL
Mud Viscosity : 41.0s/l Temperature @1214.00m = 11.6C

Location: 400/ 66.564 / 125.540 /00
Type: DUAL CONVENTIONAL BOTTOM HOLE
Formation: TIGHT HOLE

Recorder Number: 001749
Recorder Depth: 1214.00 m
Subsea Depth: -778.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE (T+dt)/dt kPa (a)	ABSCISSA	PRESSURE SQUARED kPa (a) ² /10 ⁶
1	INITIAL HYDROSTATIC			15186		
2	START OF 1st FLOW	0.0		2327		
		1.		2086		
3	END OF 1st FLOW	2.		1999		
	1st SHUTIN PERIOD	0.0		1999		
		2.	6291	8291	2.0000	68.7397
		4.	9739	11738	1.5000	137.7877
		7.	10532	12531	1.2857	157.0310
		9.	10635	12635	1.2222	159.6331
		11.	10687	12686	1.1818	160.9423
		14.	10721	12721	1.1429	161.8188
		16.	10739	12738	1.1250	162.2567
		18.	10756	12755	1.1111	162.6977
		20.	10773	12773	1.1000	163.1368
		23.	10773	12773	1.0870	163.1368
		25.	10790	12790	1.0800	163.5764
		27.	10790	12790	1.0741	163.5764
		30.	10808	12807	1.0667	164.0193
		32.	10808	12807	1.0625	164.0193
		34.	10808	12807	1.0588	164.0193
		36.	10808	12807	1.0556	164.0193
		39.	10808	12807	1.0513	164.0193
		41.	10808	12807	1.0488	164.0193
		43.	10808	12807	1.0465	164.0193
		46.	10808	12807	1.0435	164.0193
		48.	10808	12807	1.0417	164.0193
		50.	10808	12807	1.0400	164.0193
		52.	10808	12807	1.0385	164.0193
		55.	10808	12807	1.0364	164.0193
		57.	10808	12807	1.0351	164.0193
		59.	10808	12807	1.0339	164.0193
		62.	10808	12807	1.0323	164.0193

* VALUES USED FOR EXTRAPOLATIONS

DST#01
 PCI ET AL TWEED LAKE M-47
 1212.00 m to 1227.00 m

p.3a

Location: 400/ 66.564 / 125.540 /00	Recorder Number: 001749
Type: DUAL CONVENTIONAL BOTTOM HOLE	Recorder Depth: 1214.00 m
Formation: TIGHT HOLE	Subsea Depth: -778.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE (T+dt)/dt kPa (a)	ABSCISSA	PRESSURE SQUARED kPa (a) ² /10 ⁶
		64.	10808	12807	1.0313	164.0193
		66.	10808	12807	1.0303	164.0193
		68.	10808	12807	1.0294	164.0193
		71.	10808	12807	1.0282	164.0193
		73.	10808	12807	1.0274	164.0193
		75.	10808	12807	1.0267	164.0193
		78.	10808	12807	1.0256	164.0193
		80.	10808	12807	1.0250	164.0193
		82.	10808	12807	1.0244	164.0193
		84.	10808	12807	1.0238	164.0193
		87.	10808	12807	1.0230	164.0193
		89.	10808	12807	1.0225	164.0193
4	END OF 1st SHUTIN	91.	10808	12807	1.0220	164.0193
5	START OF 2nd FLOW	0.0		2689		
		2.		2758		
		3.		2982		
		4.		3172		
		5.		3378		
		6.		3585		
		7.		3775		
		8.		3947		
		10.		4326		
		11.		4516		
		12.		4706		
		13.		4861		
		14.		5016		
		15.		5171		
		16.		5326		
6	END OF 2nd FLOW	18.		5619		
	2nd SHUTIN PERIOD	0.0		5619		
		3.	5602	11221	7.6667	125.9153
		6.	6843	12462	4.3333	155.3064

* VALUES USED FOR EXTRAPOLATIONS

DST#01
 PCI ET AL TWEED LAKE M-47
 1212.00 m to 1227.00 m

p.3b

Location: 400/ 66.564 / 125.540 /00
 Type: DUAL CONVENTIONAL BOTTOM HOLE
 Penetration: TIGHT HOLE

Recorder Number: 001749
 Recorder Depth: 1214.00 m
 Subsea Depth: -778.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa(a)	PRESSURE SQUARED kPa(a)^2/10^6	
		10.	7050	12669	3.0000	160.5061
		13.	7119	12738	2.5385	162.2567
		17.	7153	12773	2.1765	163.1368
		20.	7153	12773	2.0000	163.1368
		24.	7188	12807	1.8333	164.0193
		27.	7188	12807	1.7407	164.0193
		30.	7188	12807	1.6667	164.0193
		34.	7188	12807	1.5882	164.0193
		37.	7188	12807	1.5405	164.0193
		41.	7188	12807	1.4878	164.0193
		44.	7188	12807	1.4545	164.0193
		48.	7205	12824	1.4167	164.4601
		51.	7188	12807	1.3922	164.0193
		54.	7188	12807	1.3704	164.0193
		58.	7205	12824	1.3448	164.4601
		61.	7205	12824	1.3279	164.4601
		65.	7205	12824	1.3077	164.4601
		68.	7205	12824	1.2941	164.4601
		72.	7205	12824	1.2778	164.4601
		75.	7205	12824	1.2667	164.4601
		78.	7205	12824	1.2564	164.4601
		82.	7205	12824	1.2439	164.4601
		85.	7205	12824	1.2353	164.4601
		89.	7205	12824	1.2247	164.4601
		92.	7205	12824	1.2174	164.4601
		96.	7205	12824	1.2083	164.4601
		99.	7205	12824	1.2020	164.4601
		102.	7205	12824	1.1961	164.4601
		106.	7205	12824	1.1887	164.4601
		109.	7205	12824	1.1835	164.4601
		113.	7205	12824	1.1770	164.4601
		116.	7205	12824	1.1724	164.4601
7	END OF 2nd SHUTIN	118.	7205	12824	1.1695	164.4601
14	FINAL HYDROSTATIC			15117		

* VALUES USED FOR EXTRAPOLATIONS

WELL NAME: PCI ET AL TWEED LAKE M-47

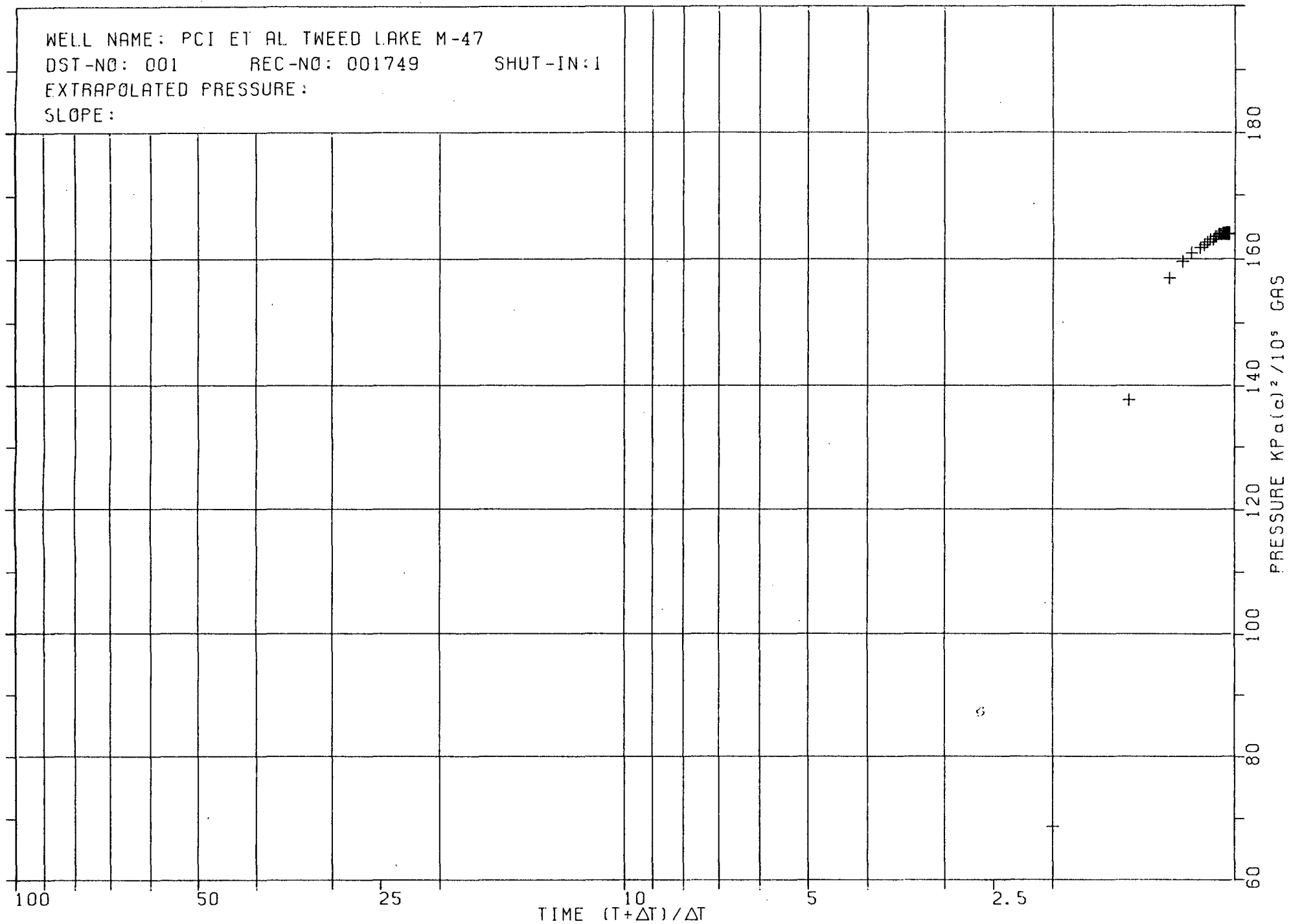
DST-NO: 001

REC-NO: 001749

SHUT-IN: 1

EXTRAPOLATED PRESSURE:

SLOPE:



WELL NAME: PCI ET AL TWEED LAKE M-47

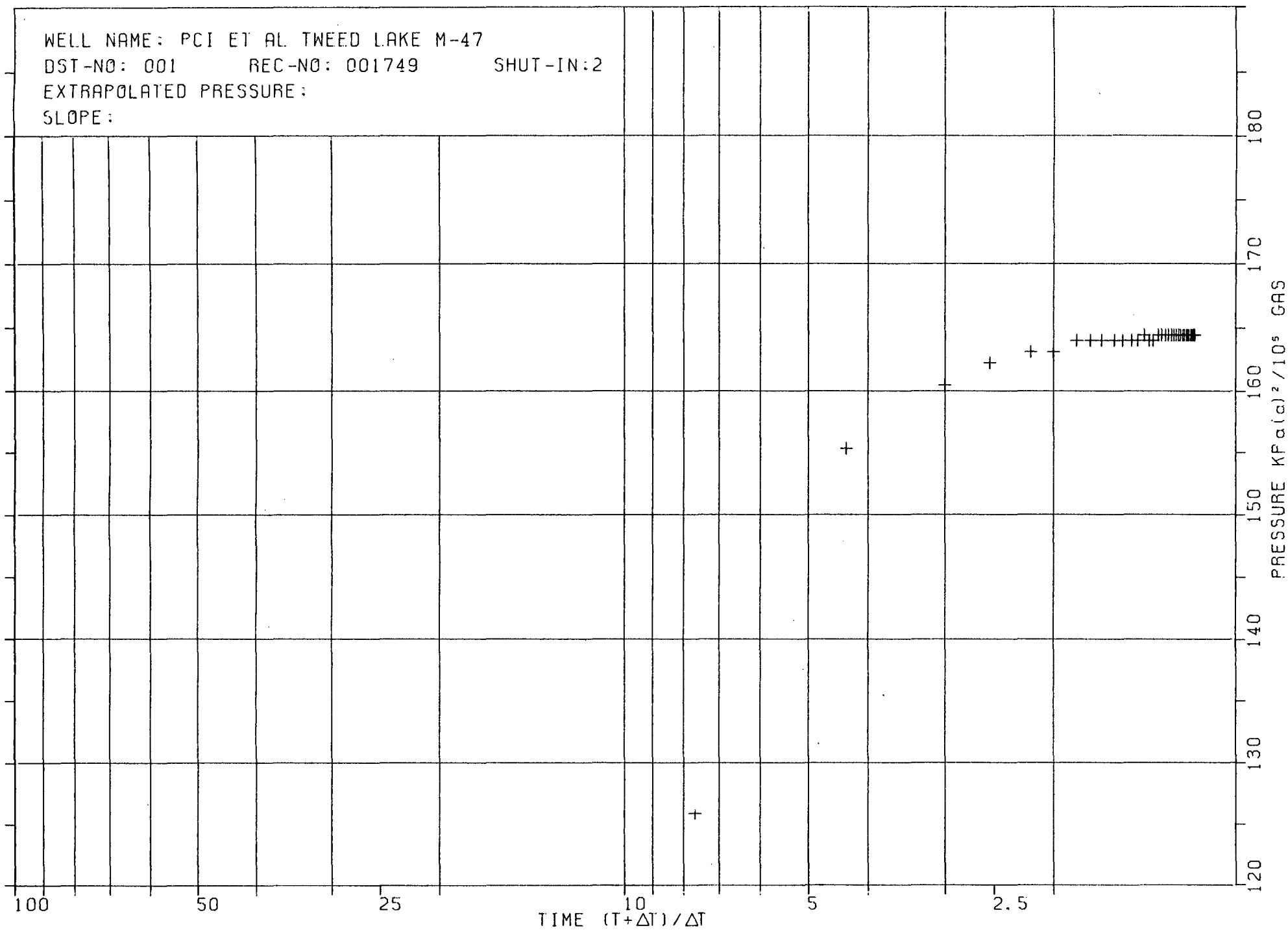
DST-N0: 001

REC-N0: 001749

SHUT-IN: 2

EXTRAPOLATED PRESSURE:

SLOPE:



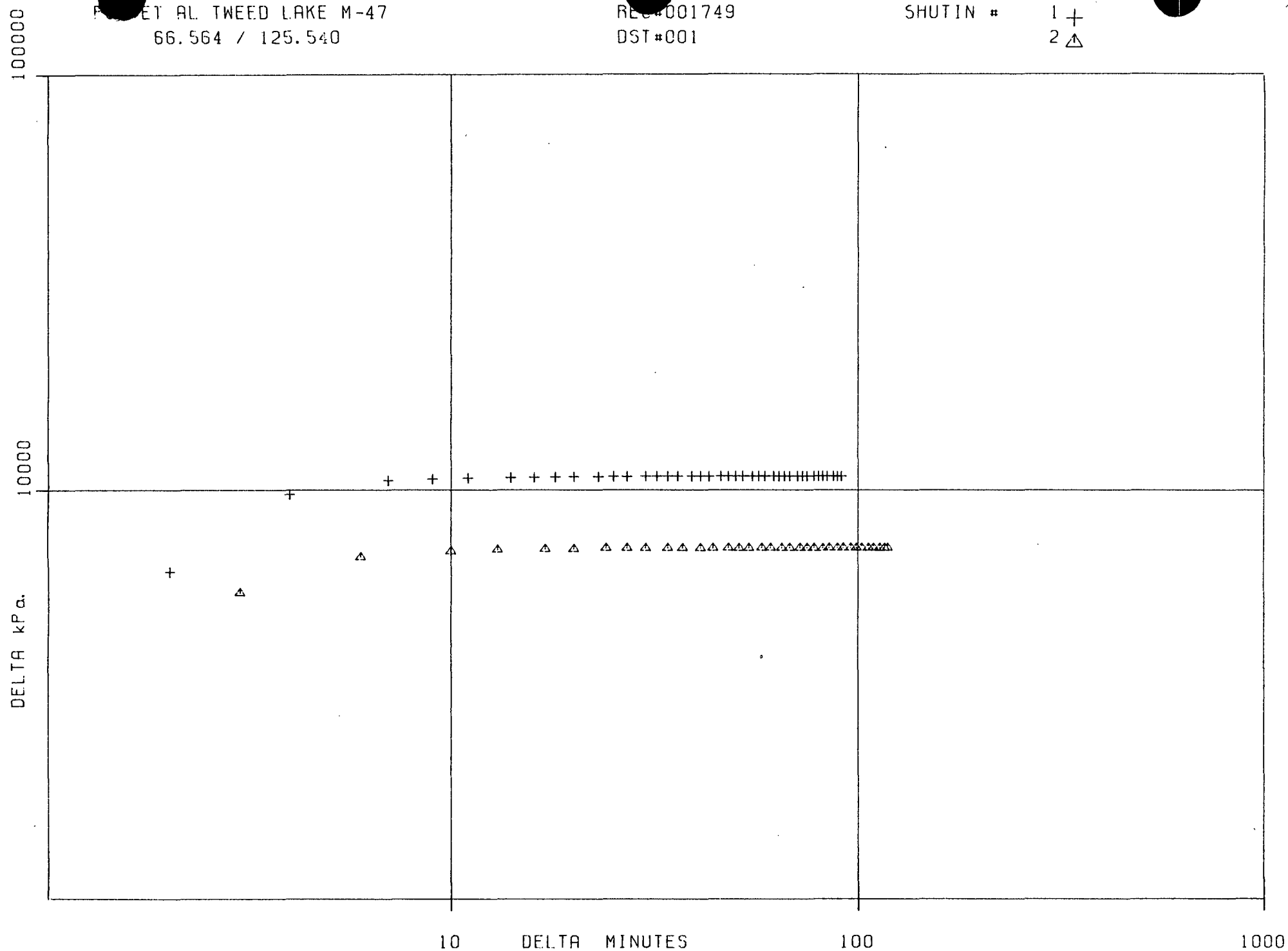
AL. TWEED LAKE M-47

66.564 / 125.540

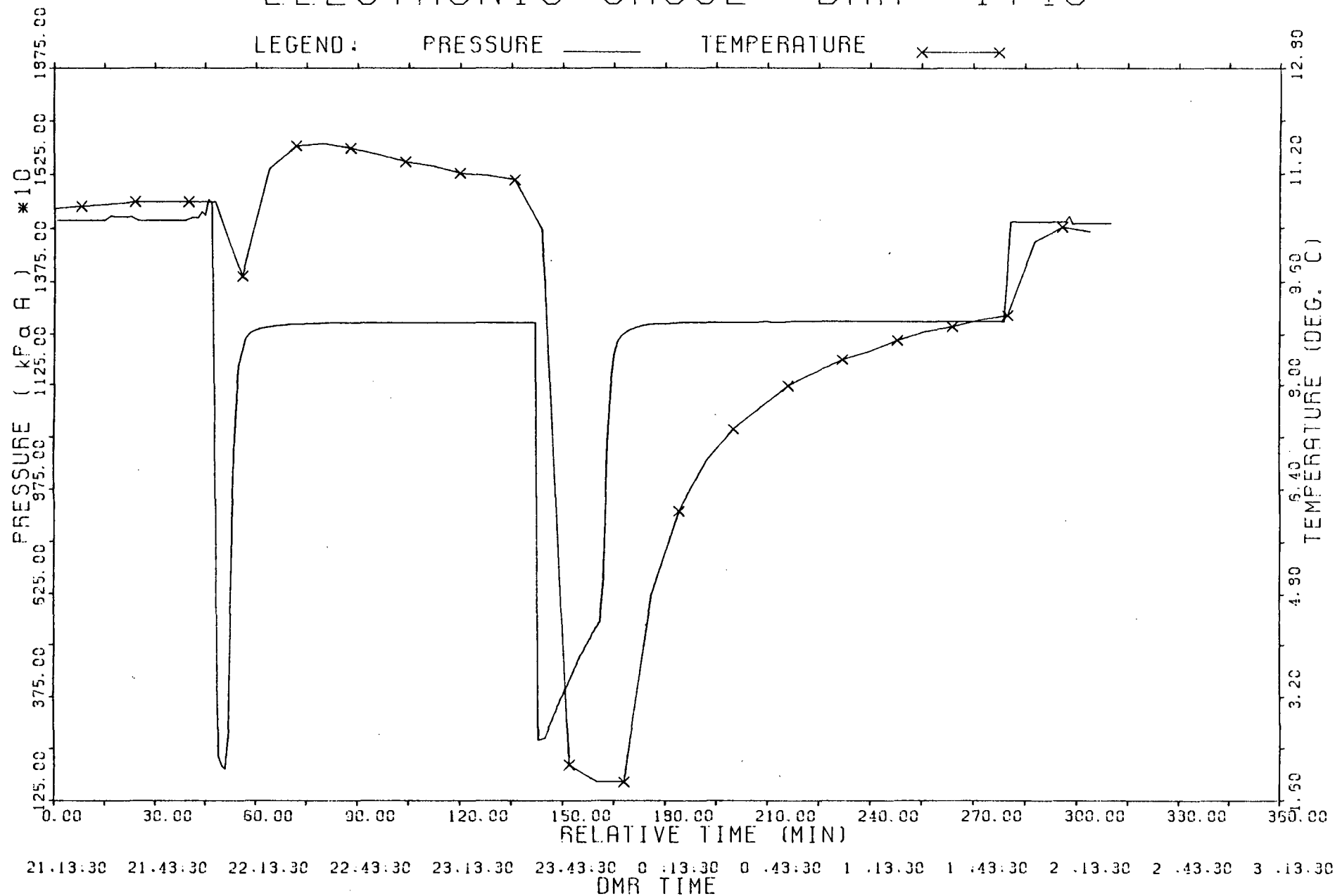
REC#001749

DST #001

SHUT IN #

$$\begin{array}{c} 1 + \\ 2 \triangleup \end{array}$$
 $2 \uparrow$ 

PCI ET AL TWEED LAKE M-47
 66.564 - 125.540 DST #1
 ELECTRONIC GAUGE DMR #1749



DST#01
PCI ET AL TWEED LAKE M-47
1212.00m to 1227.00m

PRESSURE RECORDER NUMBER : 001749

DEPTH : 1214.00m LOCATION : OUTSIDE
TYPE : DMRB CAPACITY : 68900.00kPa(a)

PRESSURE
kPa(a)

***** TEMPERATURE AT RECORDER DEPTH = 11.6 C

- 1) Initial Hydro : 15186.
- 2) 1st Flow Start: 2327.
- 3) 1st Flow End : 1999.
- 4) END 1st Shutin: 12807.
- 5) 2nd Flow Start: 2689.
- 6) 2nd Flow End : 5619.
- 7) END 2nd Shutin: 12824.
- 14) Final Hydro. : 15117.

ELECTRONIC GAUGE.
PRESSURES AND
TEMPERATURE.

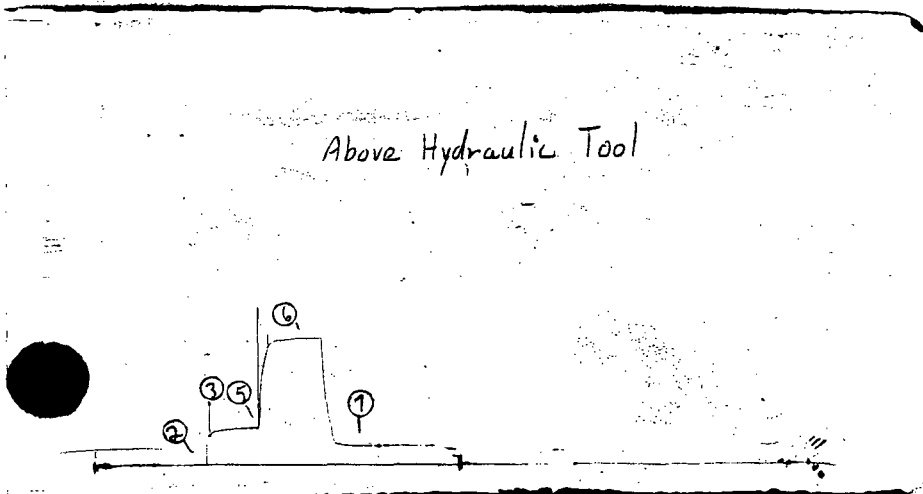
TEST TIMES (MIN)
1st FLOW : 2.
SHUTIN: 91.
2nd FLOW : 18.
SHUTIN: 118.

PRESSURE RECORDER NUMBER : 008887

DEPTH : 1203.00m LOCATION : INSIDE
TYPE : K-3 CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro :
- 2) 1st Flow Start: 26.
- 3) 1st Flow End : 1570.
- 4) END 1st Shutin:
- 5) 2nd Flow Start: 1766.
- 6) 2nd Flow End : 5949.
- 7) END 2nd Shutin: 905.
- 14) Final Hydro. :



ABOVE HYDRAULIC
TOOL RECORDER.

DST#01
PCI ET AL TWEED LAKE M-47
1212.00m to 1227.00m

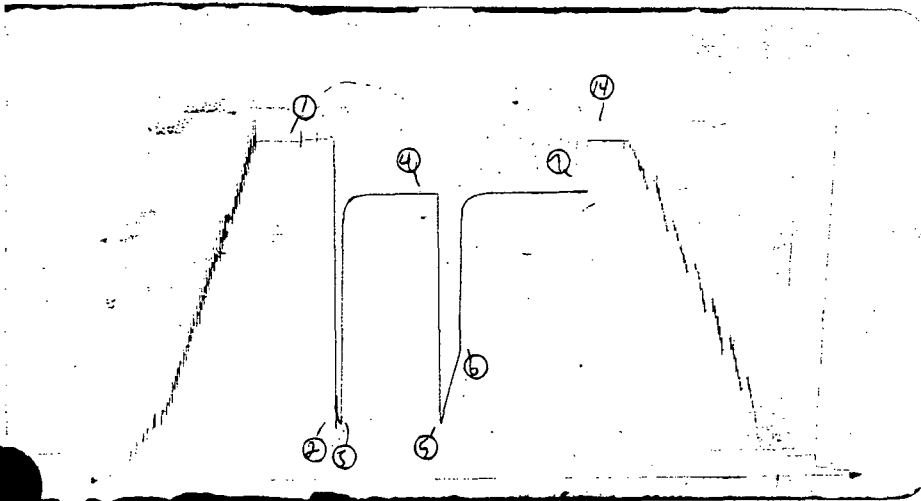
PRESSURE RECORDER NUMBER : 013480

DEPTH : 1214.00m
TYPE : K-3

LOCATION : OUTSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15179.
- 2) 1st Flow Start: 1987.
- 3) 1st Flow End : 1921.
- 4) END 1st Shutin: 12723.
- 5) 2nd Flow Start: 2384.
- 6) 2nd Flow End : 5421.
- 7) END 2nd Shutin: 12723.
- 14) Final Hydro. : 15130.



TEST TIMES (MIN)

- | | |
|------------|------|
| 1st FLOW : | 2. |
| SHUTIN: | 91. |
| 2nd FLOW : | 18. |
| SHUTIN: | 118. |

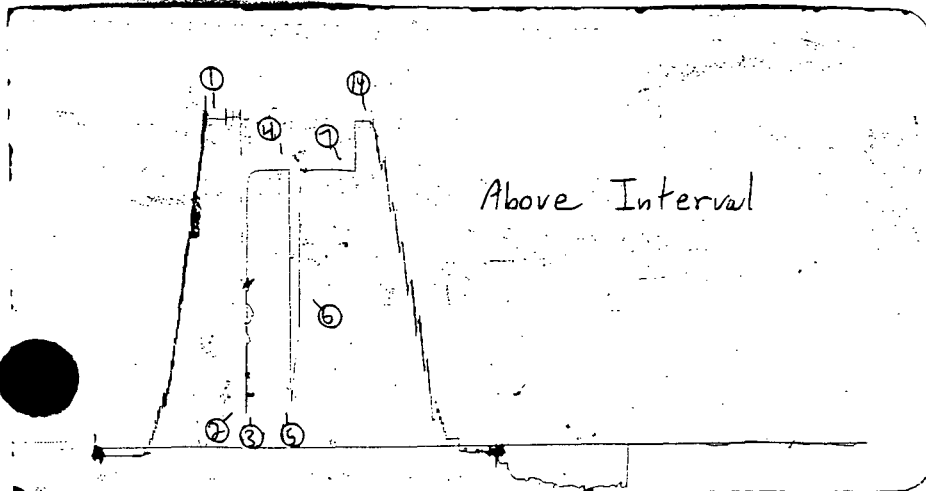
PRESSURE RECORDER NUMBER : 014103

DEPTH : 1205.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15000.
- 2) 1st Flow Start: 1875.
- 3) 1st Flow End : 1875.
- 4) END 1st Shutin: 12695.
- 5) 2nd Flow Start: 2401.
- 6) 2nd Flow End : 5429.
- 7) END 2nd Shutin: 12614.
- 14) Final Hydro. : 14853.



ABOVE INTERVAL
RECORDER.

DST#01
PCI ET AL TWEED LAKE M-47
1212.00m to 1227.00m

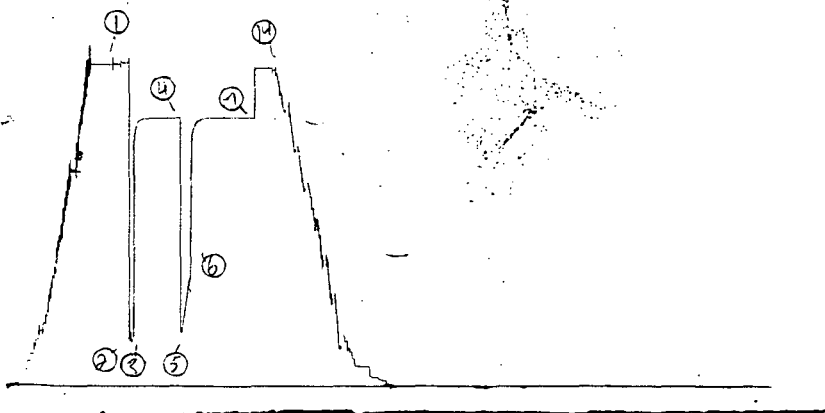
PRESSURE RECORDER NUMBER : 017737

DEPTH : 1214.00m
TYPE : K-3

LOCATION : OUTSIDE
CAPACITY : 21000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15230.
- 2) 1st Flow Start: 2075.
- 3) 1st Flow End : 2041.
- 4) END 1st Shutin: 12752.
- 5) 2nd Flow Start: 2518.
- 6) 2nd Flow End : 5325.
- 7) END 2nd Shutin: 12752.
- 14) Final Hydro. : 15115.



TEST TIMES (MIN)

1st FLOW : 2.
SHUTIN: 91.
2nd FLOW : 18.
SHUTIN: 118.

LYNES UNITED SERVICES

1144 29th AVE. N.E., CALGARY

ALBERTA, T2E 7P1

CLOSED CHAMBER DST REPORT

Well name: PCI ET AL TWEED LAKE M-47

Location: 66.564 - 125.540

DST No.: 1

Interval: 1212-1227 m

Date: 85/02/08

Table of Contents

	Segment
1. General information	1
2.1 Test report summary	2
2.2 Results determined from the test data	
2.3 Comments on the test	
2.4 Conclusion	
3.1 Surface pressure vs time plot (total test)	3
3.2 Preflow detail plot	
3.3 Initial shut-in detail plot	
3.4 Final flow detail plot	
3.5 Final shut-in detail plot	
4. Surface pressure data and rates	4
Appendices	
A.1 Pretest planning parameters and calculations	A
A.2 Maximum possible rates of dp/dt and flow	
A.3 Pretest planning summary	

1. GENERAL INFORMATION

Company:	PETRO-CANADA INC.	Date:	85/02/08
Well name:	PCI ET AL TWEED LAKE M-47	Tester:	BABYAK R
Well no:	66.564 - 125.540	CC Tester:	MACQUARRIE D
DST #:	1	Ticket #:	66110
Interval:	1212-1227 m	Hole size:	216 mm
Formation:	TIGHT HOLE		
Type of test:	CONV BTM HOLE		
Primary objective of closed chamber:			
Cushion:	0.000 m	Volume:	0.000 m ³
Gas cushion:	0.000 kPa	Volume:	0.000 Sm ³
Chamber volume:	8.239 m ³	Sump volume:	.395 m ³

RECORDER DATA

DSR #:	124	DMR #:	1749	Depth:	1214 m
Above shut-in recorder #:	8887	Depth:	1203 m		
Surface probe #:	1528				

CONSTANTS AND FORMATION PARAMETERS

Bottom hole choke size(d):	12.7 mm	No. run:	1	Coeff(FP):	17.5
Est. form pressure:	12800 kPa	Est. form temp:	284.75 deg K		
Gas spec. gravity:	.6	(z):	.732		
Estimated gas-water ratio(R):	1.5	Surface pressure:	101.514 kPa		

PRETEST CALCULATION RESULTS

	Max rate m ³ /d	Max dp/dt kPa/min	Conversion m ³ /d/kPa/min
Gas:	340442.463	2870.388	118.605
Gas saturated water:	1292.826	18.835	68.638
Gas free water:	861.884	7.935	108.617

2.1 Test Report Summary

A drill stem test was conducted on
PCI ET AL TWEED LAKE M-47
66.564 - 125.540 under closed chamber conditions according
to LYNES STANDARD CLOSED CHAMBER TESTING PROCEDURE.

The surface pressure was monitored throughout the
entire test. All measured data is presented both graph-
ically and in tabular form in segments 3 and 4 of this
report along with the calculated rates.

2.2 Results determined from the test data

1) PREFLOW

Flow time = 5 minutes
Surface pressure - start = 101.514 kPa
Surface pressure - end = 945.027

Indicated fluid = gas

Initial gas rate = 45 m3/d
Maximum gas rate = 34671 m3/d
Last gas rate = 29834 m3/d
Average gas rate = 21101 m3/d
Average gas rate = 28892 m3/d **

The closed chamber and DST preflow times do not agree.
Firstly, the DMR was sensing a temperature when the tool
was opened which resulted in it missing the first preflow
pressure. Secondly, the closed chamber surface pressures
indicate that the tool was slow in fully opening. The
average gas rate with the ** was calculated by ignoring
the first 6 calculated gas rates.

2) INITIAL SHUT-IN

Shut-in time = 91 minutes

The surface pressure during the initial shut-in was
essentially stable indicating virtually pure gas flow.

3) FINAL FLOW

Flow time = 19 minutes
Surface pressure - start = 996.944 kPa
Surface pressure - end = 4602.230 kPa

Initial gas rate = 29591 m3/d
Maximum gas rate = 109878 m3/d

Last gas rate = 17166 m³/d
Average gas rate = 23733 m³/d

As with the preflow, the DMR was sensing a temperature when the tool was opened for the final flow. This caused the difference in times between the DST and the closed chamber results.

The gas rate calculations show two large gas rates at 0.75 minutes and at 4 minutes. These values may not be accurate due to a problem with the time print out of the DSR. However, this does not affect the validity of the remainder of the results.

4) FINAL SHUT-IN

Shut-in time = 118 minutes
The surface pressure was monitored for 133 minutes.

The surface pressure was decreasing slightly for most of the shut-in. This could indicate a small leak in the surface equipment.

The surface pressure was vented 100 minutes into the shut-in.

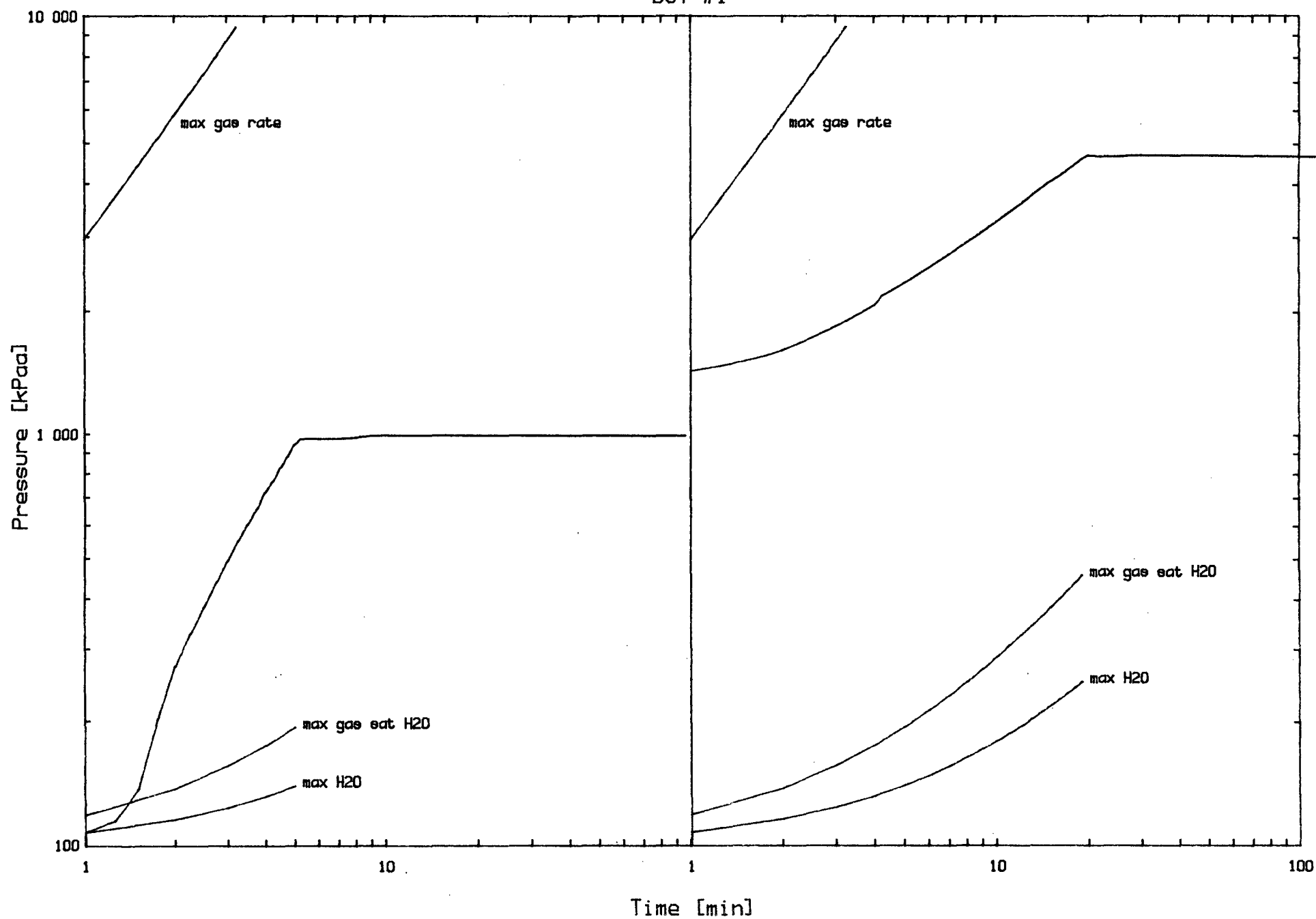
2.3 Comments on the test

With the exception of a minor timing problem for the DSR, the closed chamber results indicate a successful test.

The reported fluid recovery was 65 meters of slightly gas cut mud. This amount appears to be the sump volume.

2.4 Conclusion

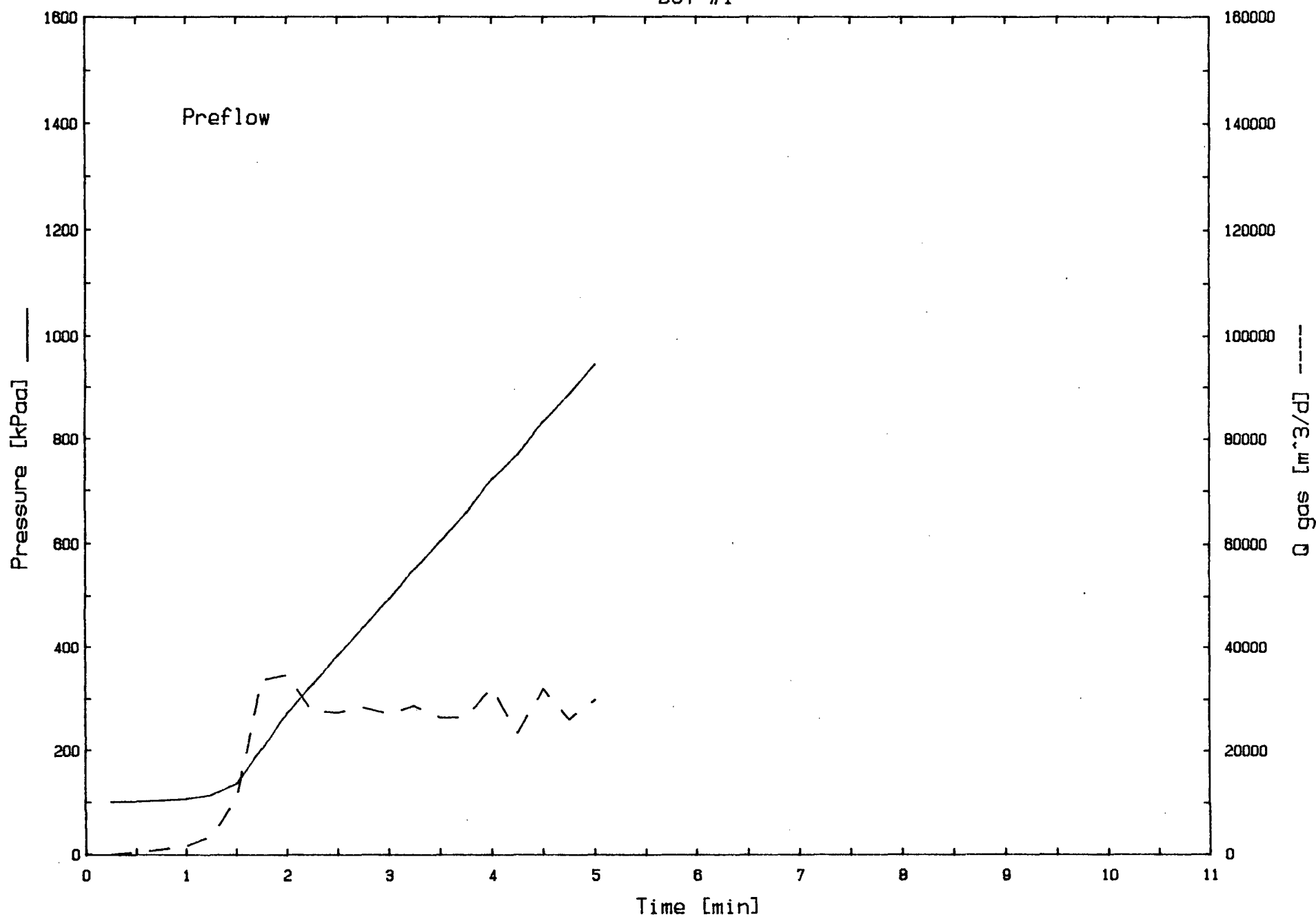
The closed chamber and DST results indicate a zone of relatively high permeability within the interval tested.



LYNES UNITED SERVICES

PCI ET AL TWEED LAKE M-47
66.564 - 125.540
DST #1

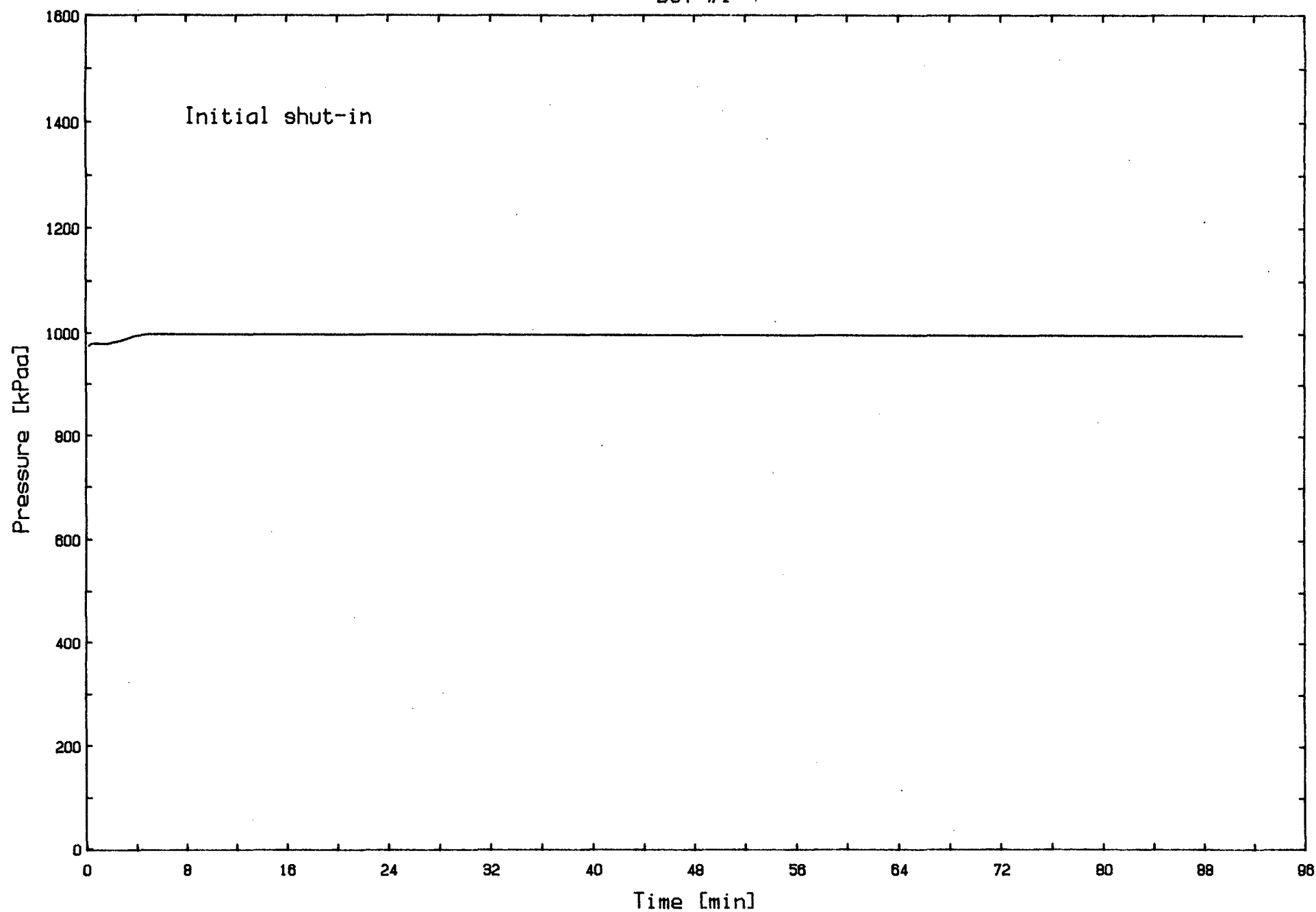
Fig. 3-2



LYNES UNITED SERVICES

PCI ET AL TWEED LAKE M-47
66.564 - 125.540
DST #1

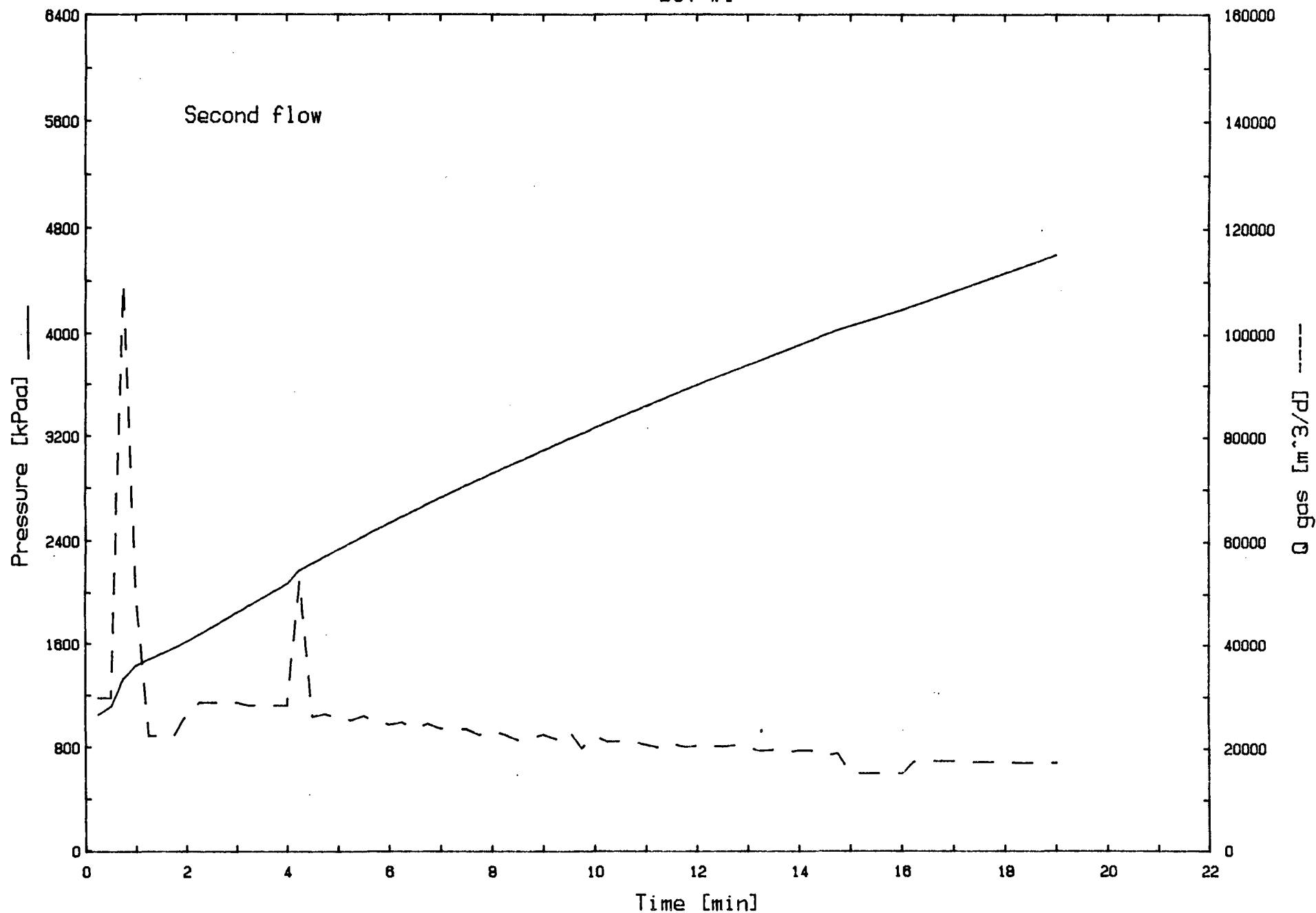
Fig. 3-3



LYNES UNITED SERVICES

PCI ET AL TWEED LAKE M-47
66.564 - 125.540
DST #1

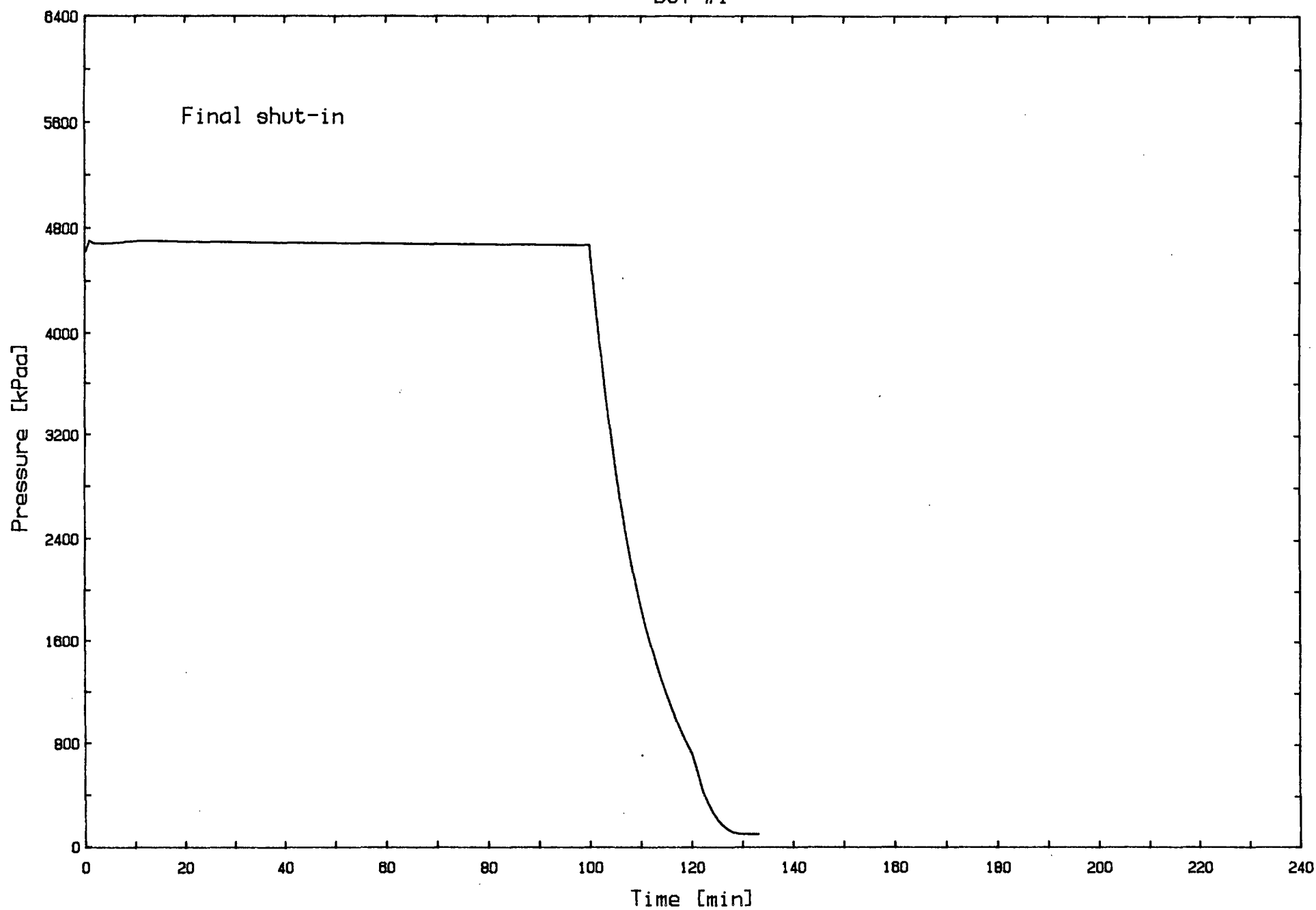
Fig. 3-4



LYNES UNITED SERVICES

PCI ET AL TWEED LAKE M-47
66.564 - 125.540
DST #1

Fig. 3-5



4. DATA LISTINGS

First flow (surface valve closed, downhole valve open)

Elapsed time min	Press kPaA	dp/dt kPa/min	Qg m ³ /d
.25	101.603	.356	44.527
.50	102.600	3.988	498.808
.75	104.564	7.856	982.607
1.00	107.847	13.132	1642.514
1.25	115.003	28.624	3580.210
1.50	136.577	86.296	10793.663
1.75	203.979	269.608	33721.818
2.00	273.278	277.196	34670.904
2.25	328.692	221.656	27724.115
2.50	383.422	218.920	27381.904
2.75	440.020	226.392	28316.481
3.00	494.307	217.148	27160.267
3.25	551.652	229.380	28690.212
3.50	604.542	211.560	26461.336
3.75	657.648	212.424	26569.402
4.00	722.096	257.792	32243.905
4.25	769.141	188.180	23537.030
4.50	832.979	255.352	31938.717
4.75	885.394	209.660	26223.689
5.00	945.027	238.532	29834.918

First shut-in (surface valve closed, downhole valve closed)

Elapsed time min	Press kPaA	dp/dt kPa/min
1.00	981.330	36.303
2.00	982.399	1.069
3.00	988.479	6.080
4.00	996.788	8.309
5.00	999.715	2.927
6.00	999.503	-.212
7.00	999.430	-.073
8.00	999.444	.014
9.00	999.444	0.000
10.00	999.331	-.113
11.00	999.398	.067
12.00	999.465	.067
13.00	999.345	-.120
14.00	999.365	.020
15.00	999.312	-.053
16.00	999.265	-.047
17.00	999.118	-.147
18.00	999.186	.068
19.00	999.132	-.054
20.00	999.060	-.072
21.00	999.007	-.053
22.00	998.987	-.020
23.00	998.987	0.000
24.00	998.833	-.154
25.00	998.814	-.019
26.00	998.814	0.000
27.00	998.808	-.006
28.00	998.781	-.027
29.00	998.754	-.027
30.00	998.723	-.031
31.00	998.691	-.031
32.00	998.660	-.031
33.00	998.629	-.031
34.00	998.598	-.031
35.00	998.566	-.031
36.00	998.535	-.031
37.00	998.504	-.031
38.00	998.472	-.031
39.00	998.441	-.031
40.00	998.404	-.037
41.00	998.367	-.037
42.00	998.331	-.037
43.00	998.294	-.037
44.00	998.257	-.037
45.00	998.220	-.037
46.00	998.183	-.037
47.00	998.147	-.037
48.00	998.110	-.037

Elapsed time min	Press kPaA	dp/dt kPa/min
49.00	998.073	-.037
50.00	998.041	-.033
51.00	998.008	-.033
52.00	997.976	-.033
53.00	997.943	-.033
54.00	997.911	-.033
55.00	997.878	-.033
56.00	997.846	-.033
57.00	997.813	-.033
58.00	997.781	-.033
59.00	997.748	-.033
60.00	997.681	-.067
61.00	997.614	-.067
62.00	997.547	-.067
63.00	997.480	-.067
64.00	997.413	-.067
65.00	997.346	-.067
66.00	997.279	-.067
67.00	997.212	-.067
68.00	997.145	-.067
69.00	997.078	-.067
70.00	997.011	-.067
71.00	997.055	.044
72.00	997.098	.044
73.00	997.011	-.087
74.00	997.008	-.003
75.00	997.004	-.003
76.00	997.001	-.003
77.00	996.997	-.003
78.00	996.994	-.003
79.00	996.991	-.003
80.00	996.987	-.003
81.00	996.984	-.003
82.00	996.980	-.003
83.00	996.977	-.003
84.00	996.973	-.003
85.00	996.970	-.003
86.00	996.990	.020
87.00	996.929	-.061
88.00	996.970	.041
89.00	996.970	0.000
90.00	996.903	-.067
91.00	996.944	.041

Second flow (surface valve closed, downhole valve open)

Elapsed time min	Press kPaA	dp/dt kPa/min	Qg m ³ /d
.25	1056.090	236.584	29591.268
.50	1115.240	236.600	29593.269
.75	1334.860	878.480	109877.832
1.00	1434.530	398.680	49865.784
1.25	1479.127	178.387	22312.107
1.50	1523.723	178.387	22312.107
1.75	1568.320	178.387	22312.107
2.00	1620.840	210.080	26276.221
2.25	1678.138	229.190	28666.447
2.50	1735.435	229.190	28666.447
2.75	1792.733	229.190	28666.447
3.00	1850.030	229.190	28666.447
3.25	1906.338	225.230	28171.141
3.50	1962.645	225.230	28171.141
3.75	2018.953	225.230	28171.141
4.00	2075.260	225.230	28171.141
4.25	2180.360	420.400	52582.461
4.50	2232.370	208.040	26021.064
4.75	2285.290	211.680	26476.345
5.00	2336.730	205.760	25735.888
5.25	2387.260	202.120	25280.607
5.50	2439.420	208.640	26096.110
5.75	2489.890	201.880	25250.588
6.00	2538.750	195.440	24445.091
6.25	2588.370	198.480	24825.326
6.50	2635.660	189.160	23659.606
6.75	2684.820	196.640	24595.184
7.00	2732.280	189.840	23744.658
7.25	2779.450	188.680	23599.569
7.50	2826.600	188.600	23589.563
7.75	2871.630	180.120	22528.908
8.00	2918.100	185.880	23249.353
8.25	2963.210	180.440	22568.933
8.50	3006.270	172.240	21543.299
8.75	3050.130	175.440	21943.547
9.00	3095.180	180.200	22538.914
9.25	3138.620	173.760	21733.417
9.50	3185.150	186.120	23279.371
9.75	3225.210	160.240	20042.373
10.00	3269.720	178.040	22268.747
10.25	3312.140	169.680	21223.102
10.50	3354.790	170.600	21338.173
10.75	3397.100	169.240	21168.068
11.00	3438.340	164.960	20632.737
11.25	3478.440	160.400	20062.385
11.50	3520.110	166.680	20847.870
11.75	3560.640	162.120	20277.518
12.00	3601.600	163.840	20492.651

Elapsed time min	Press kPaA	dp/dt kPa/min	Qg m ³ /d
12.25	3642.430	163.320	20427.611
12.50	3683.080	162.600	20337.555
12.75	3724.260	164.720	20602.719
13.00	3764.380	160.480	20072.391
13.25	3803.390	156.040	19517.049
13.50	3842.700	157.240	19667.141
13.75	3881.350	154.600	19336.937
14.00	3920.500	156.600	19587.092
14.25	3959.490	155.960	19507.042
14.50	3996.820	149.320	18676.530
14.75	4034.750	151.720	18976.715
15.00	4065.078	121.312	15173.367
15.25	4095.406	121.312	15173.367
15.50	4125.734	121.312	15173.367
15.75	4156.062	121.312	15173.367
16.00	4186.390	121.312	15173.367
16.25	4221.425	140.140	17528.321
16.50	4256.460	140.140	17528.321
16.75	4291.495	140.140	17528.321
17.00	4326.530	140.140	17528.321
17.25	4361.145	138.460	17318.191
17.50	4395.760	138.460	17318.191
17.75	4430.375	138.460	17318.191
18.00	4464.990	138.460	17318.191
18.25	4499.300	137.240	17165.597
18.50	4533.610	137.240	17165.597
18.75	4567.920	137.240	17165.597
19.00	4602.230	137.240	17165.597

Second shut-in (surface valve closed, downhole valve closed)

Elapsed time min	Press kPaA	dp/dt kPa/min
1.00	4706.200	103.970
2.00	4690.700	-15.500
3.00	4687.430	-3.270
4.00	4687.320	-.110
5.00	4689.500	2.180
6.00	4691.990	2.490
7.00	4695.220	3.230
8.00	4699.820	4.600
9.00	4704.310	4.490
10.00	4707.300	2.990
11.00	4708.240	.940
12.00	4707.740	-.500
13.00	4706.900	-.840
14.00	4706.230	-.670
15.00	4705.655	-.575
16.00	4705.080	-.575
17.00	4704.635	-.445
18.00	4704.190	-.445
19.00	4703.610	-.580
20.00	4703.030	-.580
21.00	4702.580	-.450
22.00	4702.130	-.450
23.00	4701.695	-.435
24.00	4701.260	-.435
25.00	4700.800	-.460
26.00	4700.340	-.460
27.00	4699.930	-.410
28.00	4699.520	-.410
29.00	4699.115	-.405
30.00	4698.710	-.405
31.00	4698.375	-.335
32.00	4698.040	-.335
33.00	4697.660	-.380
34.00	4697.280	-.380
35.00	4696.900	-.380
36.00	4696.520	-.380
37.00	4696.100	-.420
38.00	4695.680	-.420
39.00	4695.340	-.340
40.00	4695.000	-.340
41.00	4694.665	-.335
42.00	4694.330	-.335
43.00	4694.040	-.290
44.00	4693.750	-.290
45.00	4693.425	-.325
46.00	4693.100	-.325
47.00	4692.780	-.320
48.00	4692.460	-.320

Elapsed time min	Press kPaA	dp/dt kPa/min
49.00	4692.160	-.300
50.00	4691.860	-.300
51.00	4691.480	-.380
52.00	4691.100	-.380
53.00	4690.865	-.235
54.00	4690.630	-.235
55.00	4690.305	-.325
56.00	4689.980	-.325
57.00	4689.690	-.290
58.00	4689.400	-.290
59.00	4689.065	-.335
60.00	4688.730	-.335
61.00	4688.465	-.265
62.00	4688.200	-.265
63.00	4687.940	-.260
64.00	4687.680	-.260
65.00	4687.370	-.310
66.00	4687.060	-.310
67.00	4686.800	-.260
68.00	4686.540	-.260
69.00	4686.180	-.360
70.00	4685.820	-.360
71.00	4685.575	-.245
72.00	4685.330	-.245
73.00	4685.105	-.225
74.00	4684.880	-.225
75.00	4684.540	-.340
76.00	4684.200	-.340
77.00	4683.965	-.235
78.00	4683.730	-.235
79.00	4683.450	-.280
80.00	4683.170	-.280
81.00	4682.910	-.260
82.00	4682.650	-.260
83.00	4682.320	-.330
84.00	4681.990	-.330
85.00	4681.830	-.160
86.00	4681.670	-.160
87.00	4681.410	-.260
88.00	4681.150	-.260
89.00	4680.820	-.330
90.00	4680.490	-.330
91.00	4680.285	-.205
92.00	4680.080	-.205
93.00	4679.830	-.250
94.00	4679.580	-.250
95.00	4679.330	-.250
96.00	4679.080	-.250
97.00	4678.885	-.195
98.00	4678.690	-.195
99.00	4678.370	-.320
100.00	4678.050	-.320

Elapsed time min	Press kPaA	dp/dt kPa/min
101.00	4293.000	-385.050
102.00	3929.145	-363.855
103.00	3565.290	-363.855
104.00	3253.620	-311.670
105.00	2966.610	-287.010
106.00	2704.150	-262.460
107.00	2464.790	-239.360
108.00	2249.070	-215.720
109.00	2054.070	-195.000
110.00	1877.350	-176.720
111.00	1715.930	-161.420
112.00	1567.950	-147.980
113.00	1431.460	-136.490
114.00	1304.450	-127.010
115.00	1190.320	-114.130
116.00	1082.430	-107.890
117.00	982.331	-100.099
118.00	890.212	-92.119
119.00	806.109	-84.103
120.00	729.399	-76.710
121.00	599.480	-129.919
122.00	459.545	-139.935
123.00	352.607	-106.938
124.00	271.973	-80.634
125.00	211.911	-60.062
126.00	168.084	-43.827
127.00	137.277	-30.807
128.00	117.129	-20.148
129.00	105.784	-11.345
130.00	102.117	-3.667
131.00	102.069	-.048
132.00	102.020	-.049
133.00	102.025	.005

PCI ET AL TWEED LAKE M-47

66.564 - 125.540
DST #1

APPENDIX A

A.1 PRETEST PLANNING PARAMETERS AND CALCULATIONS

1 Surface temperature	283.150 deg K	measured
2 Average chamber temperature	283.950 deg K	(est. from temp + surf temp)/2
3 Chamber deviation factor(z)	.950	given
4 Sump volume	.395 m ³	calculated
5 Top packer depth	1212.000 mKB	given
6 Bottom packer depth	1227.000 mKB	given
7 Test valve depth	1205.000 mKB	given
8 Stick up above KB	5.000 mKB	given
9 Total chamber length	1202.050 m	given
10 Lower drill collar length	197.050 m	given
11 Lower drill collar ID	72.000 mm	given
12 Lower drill collar capacity	.00407 m ³ /m	calculated
13 Lower drill collar volume	.802 m ³	calculated
14 Upper drill collar length	0.000 m	given
15 Upper drill collar ID	0.000 mm	given
16 Upper drill collar capacity	0.00000 m ³ /m	calculated
17 Upper drill collar volume	0.000 m ³	calculated
18 Lower drill pipe length	1005.000 m	given
19 Lower drill pipe capacity	.00740 m ³ /m	given
20 Lower drill pipe volume	7.437 m ³	calculated
21 Upper drill pipe length	0.000 m	given
22 Upper drill pipe capacity	0.00000 m ³ /m	given
23 Upper drill pipe volume	0.000 m ³	calculated
24 Total chamber volume	8.239 m ³	total of tubular volumes
25 Water cushion length	0.000 m	measured
26 Water cushion volume	0.000 m ³	calculated
27 Net air/gas volume	8.239 m ³	calculated
28 Minimum time to produce sump volume	.660 min	calculated
29 Corresponding surface pressure increase	5.500 kPa	calculated

A.2 MAXIMUM POSSIBLE RATES OF dp/dt AND FLOW:

27 Gas	2870.388 kPa/min	340442.463 m ³ /d
28 Gas saturated water	18.835 kPa/min	1292.826 m ³ /d
29 Gas free water	7.935 kPa/min	861.884 m ³ /d

A.3 PRETEST PLANNING SUMMARY

From the above parameters it is clear that a surface pressure change greater than 2870.388 kPa/min would not occur during this test. Surface pressure changes greater than 18.835 kPa/min indicate hydrocarbon influx, and pressure changes less than 7.935 kPa/min may indicate liquid or low rate gas.

If gas is produced, a surface pressure increase of 1 kPa/min corresponds to 118.605 m³/d of gas influx to the chamber.

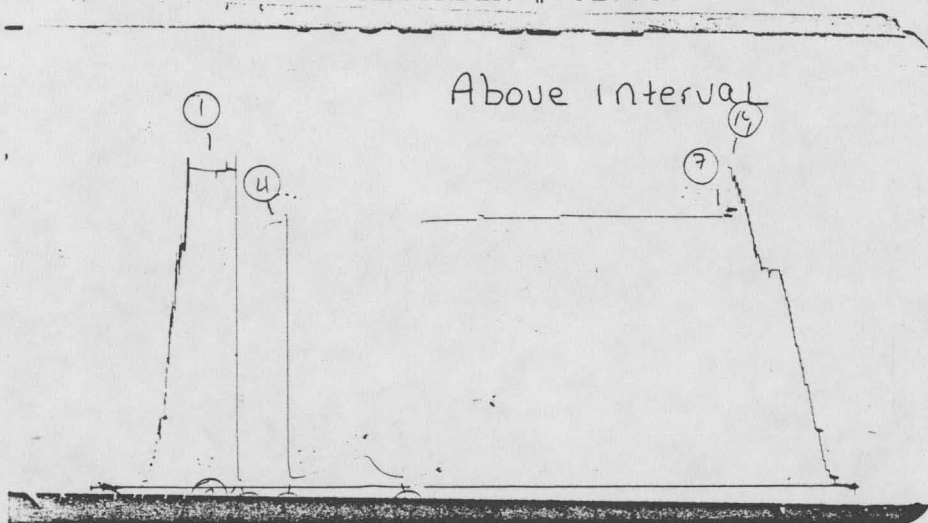
DST 2

PCI ET AL TWEED LAKE M-47
 400/ 66.564 / 125.540 /00
 DST#02
 1188.00m to 1199.00m
 MOUNT CAP

DEPTH: 1180.00m

PRESSURE
 kPa

RECORDER # 017737



- 1) Initial Hydro : 15089.
- 2) 1st Flow Start: 391.
- 3) 1st Flow End : 339.
- 4) END 1st Shutin: 12593.
- 5) 2nd Flow Start: 452.
- 6) 2nd Flow End : 469.
- 7) END 2nd Shutin: 12857.
- 14) Final Hydro. : 15080.

TEST TIMES (MIN)

- 1st FLOW : 5.
 SHUTIN: 90.
 2nd FLOW : 210.
 SHUTIN: 548.

RECOVERY DATA

TO SURFACE WITH A RATE OF 2 669.00 M3/D DECREASING TO 846.00 M3/D. TOTAL FLUID RECOVERY CONSISTS OF 35.00 METERS OF GAS CUT MUD.

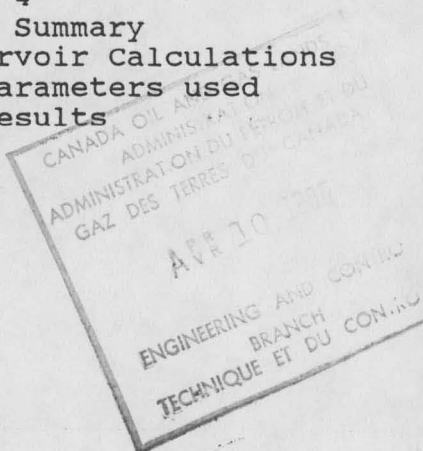
REMARKS AND TEST SUMMARY

Test results indicate a mechanically successful test. Bottom hole pressures and the shape of the shut-in curves suggest RELATIVELY LOW PERMEABILITY within the interval tested. Electronic gauge #1749 - no final shut-in and final hydrostatic pressures available as the memory was full. Recorder #13480 - no final shut-in and final hydrostatic pressures available as the clock ran out. The two pressure increases during the final shut-in were caused by the working of the pipe which caused small hydrostatic leaks into the interval. A Closed Chamber report is included.

TABLE OF CONTENTS

PAGE 1	PAGE 2	PAGE 3	PAGE 4
General Data	Tool Sequence	PRESSURE	Plot Summary
Blow Description	Recorder Summary	-TIME	Reservoir Calculations
Liquid Recovery	Mud and Hole Data	LISTING	-Parameters used
Gas Measurements			-Results

***** RECORDER PAGES & FIGURES *****



Well name : PCI ET AL TWEED LAKE M-47
Location : 400/ 66.564 / 125.540 /00
Interval : 1188.00m to 1199.00m
Test Date : 85/02/16
Test Type : INFLATE STRADDLE
Formation : MOUNT CAP

K.B.Elevation : 435.22m
Grd.Elevation : 429.10m
TD @ test Date: 1420.00m
Ticket Number : 66111
Unit Number :

Started in hole at : 1630 hrs
Tool opened at : 1932 hrs
Reverse circulated?: NO
Contractor & Rig No: ATCO #76
Lynes#2 : 1 of 1 on the same trip.

Operator: PETRO-CANADA INC.
ROOM 937 WEST
150 - 6TH AVE. S.W.
CALGARY ALBERTA
T2P3E3

Company Rep : PRICHUK M
Testers : BABYAK R

10 REPORTS(S) TO: DIANNE THEISEN
Company:

BLOW DESCRIPTION

Closed chamber run by Lynes United Services Ltd.
Closed chamber during the first 137.75 minutes of the final flow. Then
reopened the surface valve. Gas was too small to measure after 185 minutes.

TOTAL LIQUID RECOVERY : 35.00m

For DST# 2 through DST# 2
3 Fluid Samples
Sent to: CORE LABS
EDMONTON
Btm. Hole Sampler #: 50,109
Sent to: CORE LABS
EDMONTON

35.00m GAS CUT MUD.

GAS MEASUREMENTS Device: FLOOR MANIFOLD

Bomb#: 6233,7169,6514
Sent to: CORE LABS
EDMONTON

F#	TIME	CHOKE	READING	m3/d
	MIN	mm	kPa	
2	145	6.35	350	2669.0
2	155	6.35	300	2364.0
2	165	6.35	155	1482.0

F#	TIME	CHOKE	READING	m3/d
	MIN	mm	kPa	
2	175	6.35	90	1088.0
2	185	6.35	45	846.0

TOOL SEQUENCE

RECORDER SUMMARY

SUB	LENGTH (m)
PUMP OUT SUB	.30
CROSS OVER SUB	.30
INSIDE RECORDER	1.38
HYDRAULIC TOOL	1.50
BTM. HOLE SAMPLER	1.03
BTM. HOLE SAMPLER	1.03
INSIDE RECORDER	1.38
HYDRAULIC JARS	2.19
SAFETY JOINT	.65
INFLATE PUMP	2.28
SCREEN	1.16
TOP INFLATE PACKER	1.78
PACKER STICK DOWN	.82
PORTED COMB. SUB	.30
RECORDER CARRIER	2.06
SPACING	7.32
PACKER STICK UP	.50
BTM.INFLATE PACKER	1.90
PERFORATIONS	1.52
BELLY SPRING	2.00

1) NUMBER : 001749	ELECTRONIC GAUGE.
TYPE : DMRB	PRESSURES AND
LOCATION: OUTSIDE	TEMPERATURE.
RANGE: 68900.00kPa(a)	
DEPTH : 1189.00m	
2) NUMBER : 008887	BELOW INTERVAL
TYPE : K-3	RECORDER.
LOCATION: INSIDE	
RANGE: 20000.00kPa	
DEPTH : 1203.00m	
3) NUMBER : 013480	CLOCK RAN OUT.
TYPE : K-3	NO FINAL
LOCATION: OUTSIDE	HYDROSTATIC.
RANGE: 20000.00kPa	
DEPTH : 1189.00m	
4) NUMBER : 014103	ABOVE HYDRAULIC
TYPE : K-3	TOOL RECORDER.
LOCATION: INSIDE	
RANGE: 20000.00kPa	
DEPTH : 1176.00m	
5) NUMBER : 017737	ABOVE INTERVAL
TYPE : K-3	RECORDER.
LOCATION: INSIDE	
RANGE: 21000.00kPa	
DEPTH : 1180.00m	

***** TOOL TOTAL 31.40

DRILL COLLARS

ID= 72.0mm: 85.58
ID= :

DRILL PIPE

OD=114.3mm: 1091.40
OD= :

COLLAR-PIPE TOTAL 1176.98

STICK UP ABOVE TABLE : 3.96
TOOL ABOVE INTERVAL : 14.98
TOTAL INTERVAL : 11.00
BOTTOM CHOKE SIZE: 25.40 mm

MUD AND HOLE DATA

Calipered Hole Size @ Test Depth:
Hole Condition at Test Time :
Hole Conditioned Prior to Test? :
Mud Weight : 1265.0 kg/m3
Type : SALT GEL
Viscosity : 91.0s/l

Water Loss : 14.4cc/s
Filter Cake:

Main Hole Size: 216.00mm

Temperature @1180.00m = 7.8C

Location: 400/ 66.564 / 125.540 /00
Type: INFLATE STRADDLE
Formation: MOUNT CAP

Recorder Number: 017737
Recorder Depth: 1180.00 m
Subsea Depth: -744.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE (T+dt)/dt kPa	ABSCISSA	PRESSURE SQUARED kPa ² /10 ⁶
1	INITIAL HYDROSTATIC			15089		
2	START OF 1st FLOW	0.0		391		
	1st SHUTIN PERIOD	0.0		339		
		2.	1302	1641	3.5000	2.6929
		4.	1936	2275	2.2500	5.1756
		6.	3108	3447	1.8333	11.8818
		8.	4187	4526	1.6250	20.4847
		10.	4845	5184	1.5000	26.8739
		12.	5977	6316	1.4167	39.8919
		14.	6733	7072	1.3571	50.0132
		16.	7575	7914	1.3125	62.6314
		18.	8062	8401	1.2778	70.5768
		20.	8559	8898	1.2500	79.1744
		25.	9879	10218	1.2000	104.4075
		30.	10513	10852	1.1667	117.7659
		35.	11102	11441	1.1429	130.8965
		40.	11481	11820	1.1250	139.7124
		45.	11727	12066	1.1111	145.5884
		50.	11903	12242	1.1000	149.8666
		55.	11991	12330	1.0909	152.0289
		60.	12087	12426	1.0833	154.4055
		65.	12140	12479	1.0769	155.7255
		70.	12184	12523	1.0714	156.8256
		75.	12210	12549	1.0667	157.4774
		80.	12237	12576	1.0625*	158.1558
		85.	12246	12585	1.0588*	158.3823
4	END OF 1st SHUTIN	90.	12254	12593	1.0556*	158.5837
5	START OF 2nd FLOW	0.0		452		
	2nd SHUTIN PERIOD	0.0		469		
		2.	313	782	108.5000	.6115

* VALUES USED FOR EXTRAPOLATIONS

DST#02
PCI ET AL TWEED LAKE M-47
1188.00 m to 1199.00 m

p.3a

Location: 400/ 66.564 / 125.540 /00
Type: INFLATE STRADDLE
Station: MOUNT CAP

Recorder Number: 017737
Recorder Depth: 1180.00 m
Subsea Depth: -744.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE (T+dt)/dt kPa	ABSCISSA	PRESSURE SQUARED kPa ² /10 ⁶
		4.	1537	2006	54.7500	4.0240
		6.	2449	2918	36.8333	8.5147
		8.	3522	3991	27.8750	15.9281
		10.	4066	4535	22.5000	20.5662
		12.	4513	4982	18.9167	24.8203
		14.	5364	5833	16.3571	34.0239
		16.	5663	6132	14.4375	37.6014
		18.	6303	6772	12.9444	45.8600
		20.	6727	7196	11.7500	51.7824
		25.	8960	9429	9.6000	88.9061
		30.	11324	11793	8.1667	139.0749
		35.	11817	12286	7.1429	150.9458
		40.	12028	12497	6.3750	156.1750
		45.	12072	12541	5.7778*	157.2767
		50.	12098	12567	5.3000*	157.9295
		55.	12116	12585	4.9091*	158.3823
		60.	12124	12593	4.5833*	158.5837
		65.	12133	12602	4.3077*	158.8104
		70.	12137	12606	4.0714*	158.9113
		75.	12142	12611	3.8667*	159.0373
		80.	12142	12611	3.6875*	159.0373
		85.	12142	12611	3.5294*	159.0373
		90.	12146	12615	3.3889*	159.1382
		95.	12151	12620	3.2632*	159.2644
		100.	12160	12629	3.1500*	159.4917
		105.	12160	12629	3.0476*	159.4917
		110.	12160	12629	2.9545*	159.4917
		115.	12160	12629	2.8696*	159.4917
		120.	12160	12629	2.7917*	159.4917
		130.	12168	12637	2.6538*	159.6938
		140.	12168	12637	2.5357*	159.6938
		150.	12247	12716	2.4333	161.6967
		160.	12256	12725	2.3438	161.9257
		170.	12256	12725	2.2647	161.9257
		180.	12260	12729	2.1944	162.0275
		200.	12260	12729	2.0750	162.0275

* VALUES USED FOR EXTRAPOLATIONS

Location: 400/ 66.564 / 125.540 /00
Type: INFLATE STRADDLE
Location: MOUNT CAP

Recorder Number: 017737
Recorder Depth: 1180.00 m
Subsea Depth: -744.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE (T+dt)/dt kPa	ABSCISSA	PRESSURE SQUARED kPa ² /10 ⁶
		220.	12265	12734	1.9773	162.1548
		240.	12265	12734	1.8958	162.1548
		260.	12265	12734	1.8269	162.1548
		280.	12388	12857	1.7679	165.3025
		300.	12388	12857	1.7167	165.3025
		340.	12388	12857	1.6324	165.3025
		380.	12388	12857	1.5658	165.3025
		420.	12388	12857	1.5119	165.3025
		460.	12388	12857	1.4674	165.3025
		500.	12388	12857	1.4300	165.3025
7	END OF 2nd SHUTIN	548.	12388	12857	1.3923	165.3025
14	FINAL HYDROSTATIC			15080		

* VALUES USED FOR EXTRAPOLATIONS

1st SHUT-IN

HORNER EXTRAPOLATION 12732.31 kPa
HORNER SLOPE 150.24829 (kPa**2/10**6)/CYCLE

2nd SHUT-IN

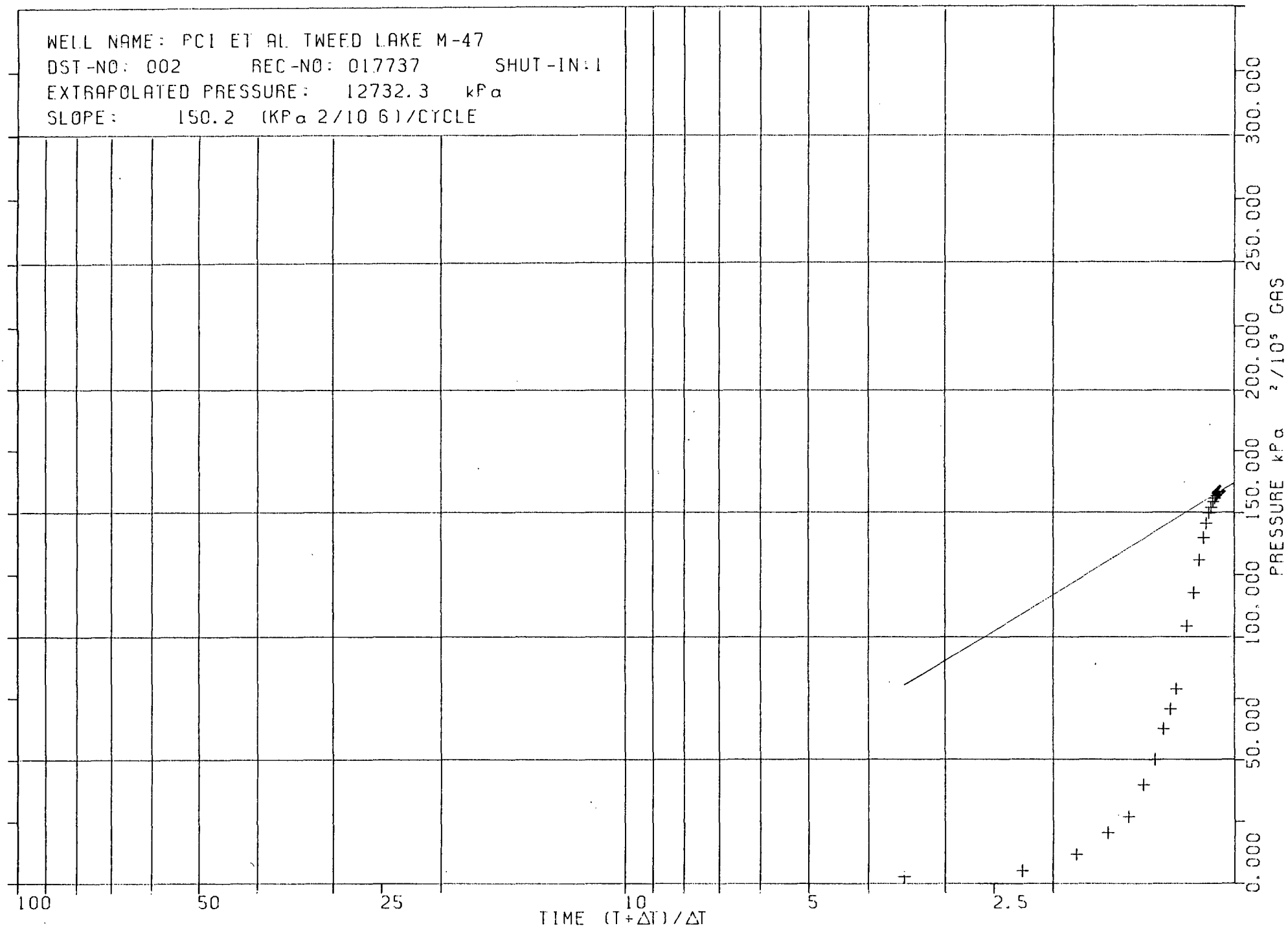
HORNER EXTRAPOLATION 12736.70 kPa
HORNER SLOPE 5.76983 (kPa**2/10**6)/CYCLE

WELL NAME: PCI ET AL TWEED LAKE M-47

DST-NO: 002 REC-NO: 017737 SHUT-IN: 1

EXTRAPOLATED PRESSURE: 12732.3 kPa

SLOPE: 150.2 (kPa 2/10 6)/CYCLE

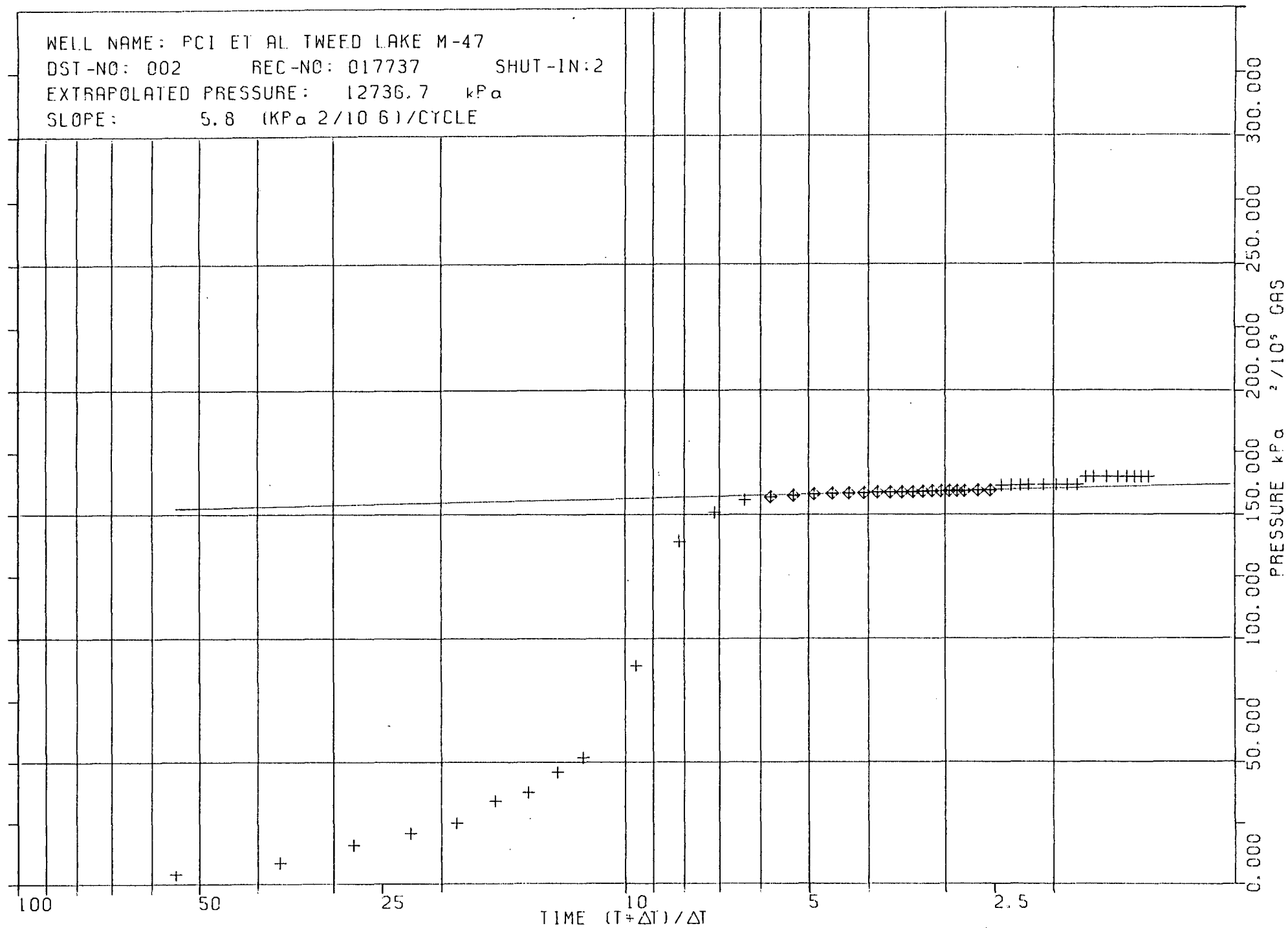


WELL NAME: PCI ET AL TWEED LAKE M-47

DST-NO: 002 REC-NO: 017737 SHUT-IN: 2

EXTRAPOLATED PRESSURE: 12736.7 kPa

SLOPE: 5.8 (kPa 2/10 6)/CYCLE



PC1 ET AL TWEED LAKE M-47

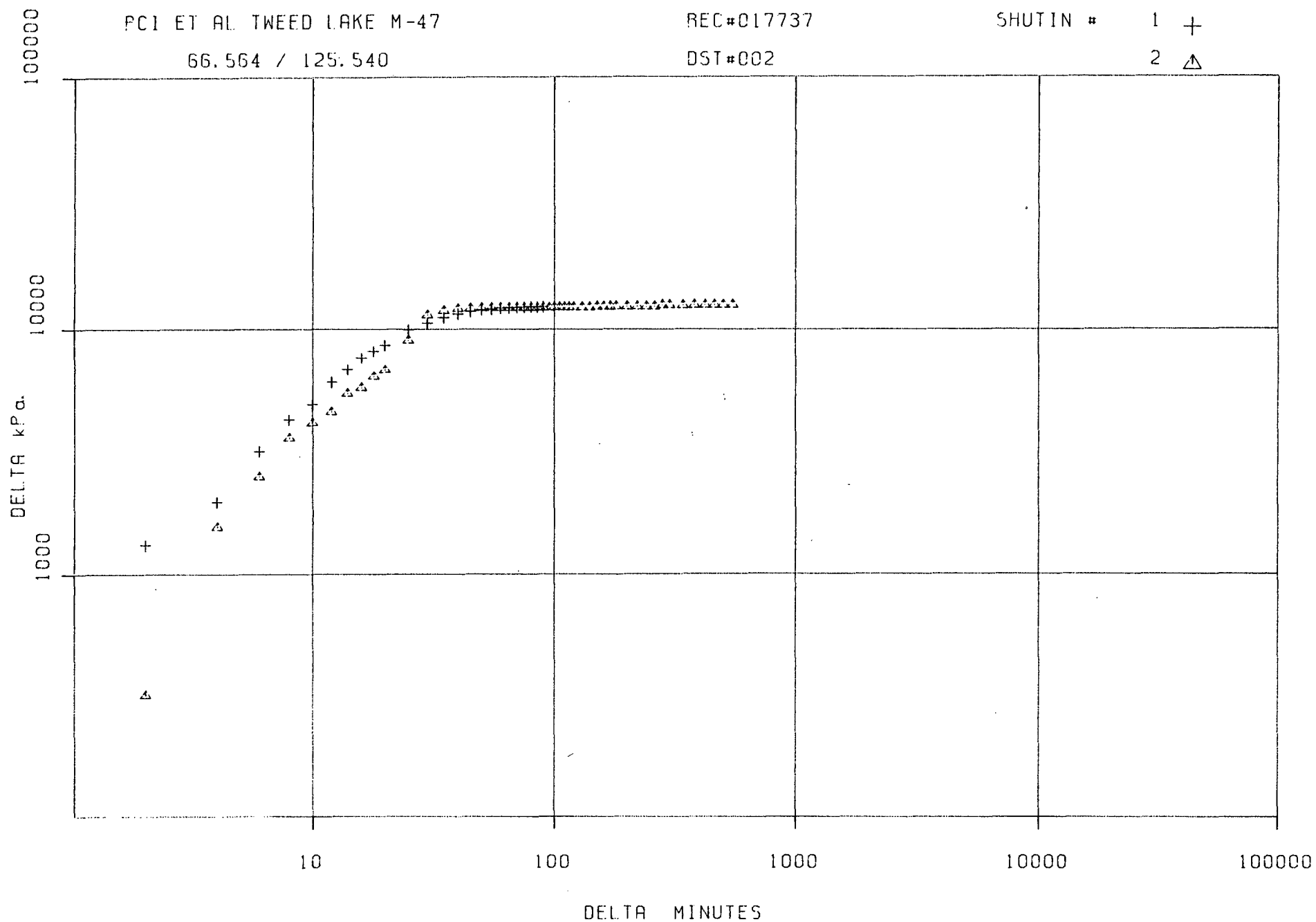
66.564 / 125.540

REC#017737

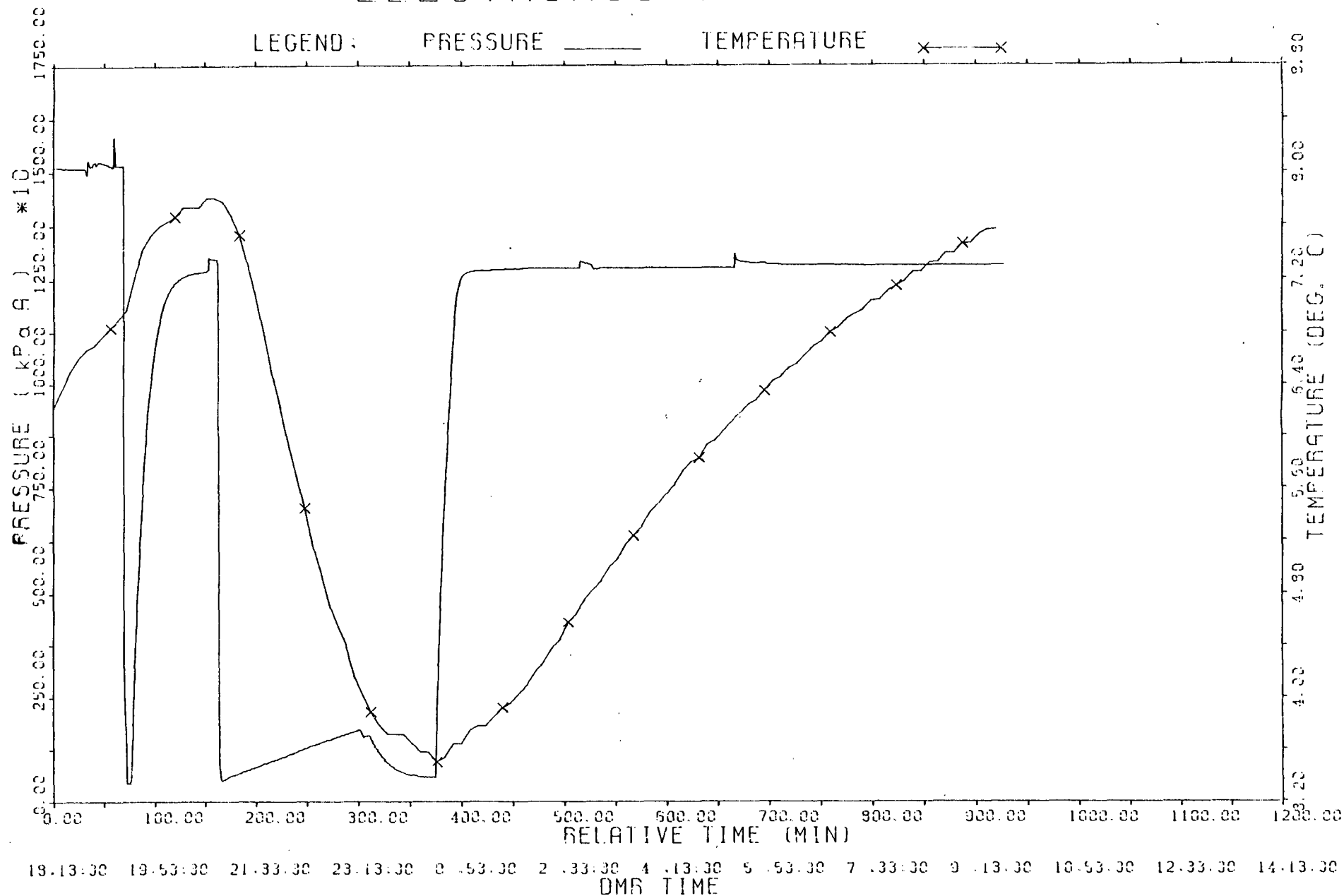
DST#002

SHUTIN # 1 +

2 Δ



PCI ET AL TWEED LAKE M-47
 66.564 125.540 DST#2
 ELECTRONIC GAUGE #1749



DST#02
PCI ET AL TWEED LAKE M-47
1188.00m to 1199.00m

PRESSURE RECORDER NUMBER : 001749

DEPTH : 1189.00m
TYPE : DMRB

LOCATION : OUTSIDE
CAPACITY : 68900.00kPa(a)

PRESSURE
kPa(a)

***** TEMPERATURE AT RECORDER DEPTH = 7.8 C

- 1)Initial Hydro :15151.
- 2)1st Flow Start: 414.
- 3)1st Flow End : 534.
- 4)END 1st Shutin:12773.
- 5)2nd Flow Start: 569.
- 6)2nd Flow End : 586.
- 7)END 2nd Shutin:
- 14)Final Hydro. :

ELECTRONIC GAUGE.
PRESSURES AND
TEMPERATURE.

TEST TIMES(MIN)
1st FLOW : 5.
SHUTIN: 90.
2nd FLOW : 210.
SHUTIN: 548.

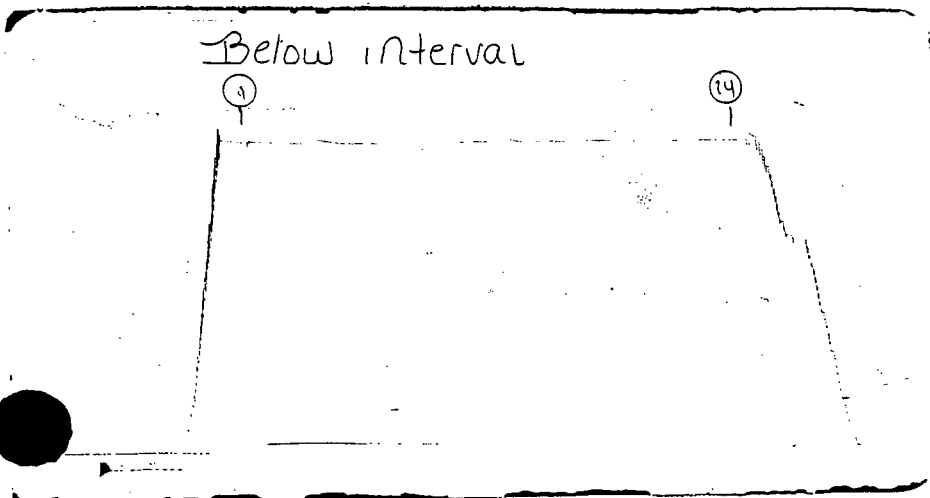
PRESSURE RECORDER NUMBER : 008887

DEPTH : 1203.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1)Initial Hydro :15534.
- 14)Final Hydro. :15517.



BELOW INTERVAL
RECORDER.

DST#02
PCI ET AL TWEED LAKE M-47
1188.00m to 1199.00m

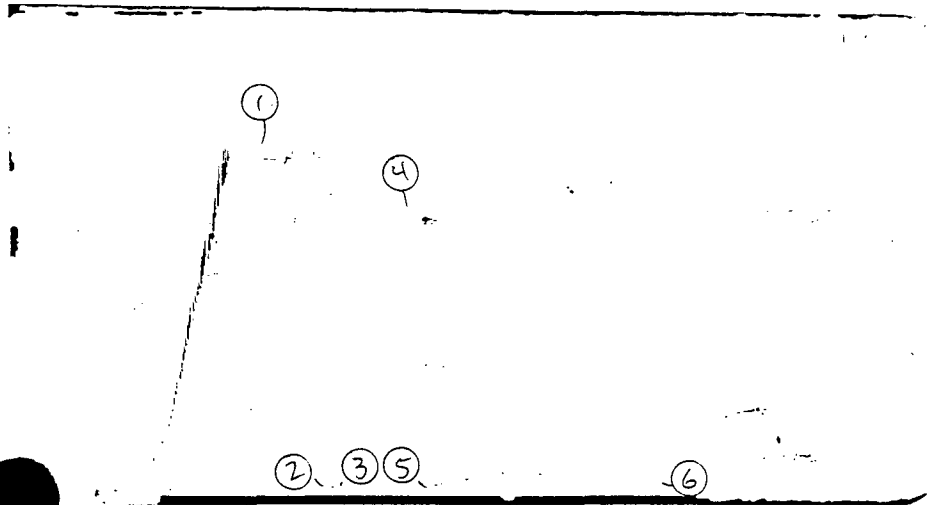
PRESSURE RECORDER NUMBER : 013480

DEPTH : 1189.00m
TYPE : K-3

LOCATION : OUTSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15163.
- 2) 1st Flow Start: 373.
- 3) 1st Flow End : 331.
- 4) END 1st Shutin: 12646.
- 5) 2nd Flow Start: 430.
- 6) 2nd Flow End : 497.
- 7) END 2nd Shutin:
- 14) Final Hydro. :



CLOCK RAN OUT.
NO FINAL
HYDROSTATIC.

TEST TIMES (MIN)
1st FLOW : 5.
SHUTIN: 90.
2nd FLOW : 210.
SHUTIN: 548.

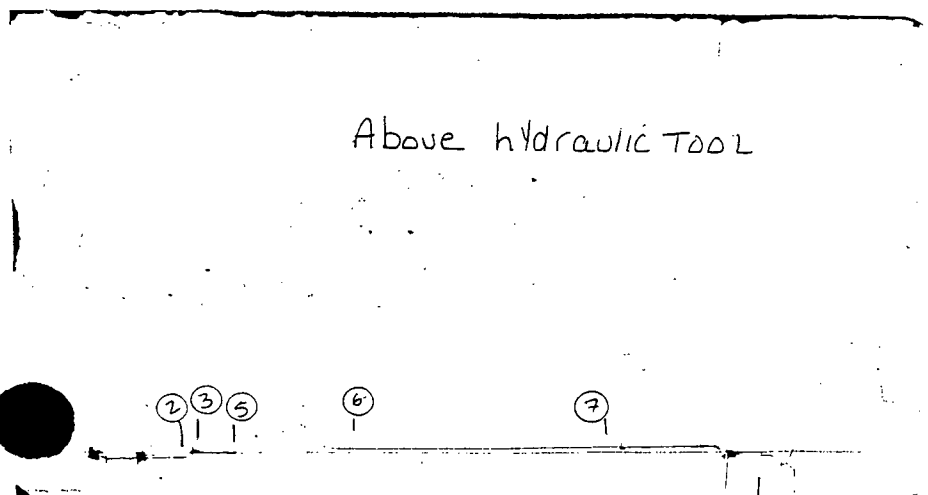
PRESSURE RECORDER NUMBER : 014103

DEPTH : 1176.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro :
- 2) 1st Flow Start: 33.
- 3) 1st Flow End : 247.
- 4) END 1st Shutin:
- 5) 2nd Flow Start: 247.
- 6) 2nd Flow End : 411.
- 7) END 2nd Shutin: 444.
- 14) Final Hydro. :



ABOVE HYDRAULIC
TOOL RECORDER.

DST#02
PCI ET AL TWEED LAKE M-47
1188.00m to 1199.00m

PRESSURE RECORDER NUMBER : 017737

DEPTH : 1180.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 21000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15089.
- 2) 1st Flow Start: 391.
- 3) 1st Flow End : 339.
- 4) END 1st Shutin: 12593.
- 5) 2nd Flow Start: 452.
- 6) 2nd Flow End : 469.
- 7) END 2nd Shutin: 12857.
- 14) Final Hydro. : 15080.

Above interval

ABOVE INTERVAL
RECORDER.

TEST TIMES (MIN)

1st FLOW : 5.
SHUTIN: 90.
2nd FLOW : 210.
SHUTIN: 548.

LYNES UNITED SERVICES

1144 29th AVE. N.E., CALGARY

ALBERTA, T2E 7P1

CLOSED CHAMBER DST REPORT

Well name: PCI ET AL TWEED LAKE

Location: 66.464 - 125.540

DST No.: 2

Interval: 1188-1199 m

Date: 85/02/16

Table of Contents

	Segment
1. General information	1
2.1 Test report summary	2
2.2 Results determined from the test data	
2.3 Comments on the test	
2.4 Conclusion	
3.1 Surface pressure vs time plot (total test)	3
3.2 Preflow detail plot	
3.3 Initial shut-in detail plot	
3.4 Final flow detail plot	
3.5 Final shut-in detail plot	
4. Surface pressure data and rates	4
Appendices	
A.1 Pretest planning parameters and calculations	A
A.2 Maximum possible rates of dp/dt and flow	
A.3 Pretest planning summary	
B.1 Downhole pressure charts	B

1. GENERAL INFORMATION

Company:	PETRO-CANADA	Date:	85/02/16
Well name:	PCI ET AL TWEED LAKE	Tester:	BABYAK R
Well no:	66.464 - 125.540	CC Tester:	HAMILTON L
DST #:	2	Ticket #:	66111
Interval:	1188-1199 m	Hole size:	216 mm
Formation:	MOUNT CAP		
Type of test:	INFLATE STRADDLE		
Primary objective of closed chamber:			
Cushion:	0.000 m	Volume:	0.000 m ³
Gas cushion:	0.000 kPa	Volume:	0.000 Sm ³
Chamber volume:	8.425 m ³	Sump volume:	.290 m ³

RECORDER DATA

DSR #:	1254	DMR #:	1749	Depth:	1189 m
Above shut-in recorder #:	14103	Depth:	1176 m		
Surface probe #:	1254				

CONSTANTS AND FORMATION PARAMETERS

Bottom hole choke size(d):	12.7 mm	No. run:	1	Coeff(FP):	17.5
Est. form pressure:	12700 kPa	Est. form temp:	280.95 deg K		
Gas spec. gravity:	.6	(z):	.726		
Estimated gas-water ratio(R):	2	Surface pressure:	100.684 kPa		

PRETEST CALCULATION RESULTS

	Max rate m ³ /d	Max dp/dt kPa/min	Conversion m ³ /d/kPa/min
Gas:	341461.744	2749.295	124.200
Gas saturated water:	1717.021	21.488	79.905
Gas free water:	858.511	7.664	112.023

2.1 Test Report Summary

A drill stem test was conducted on PCI ET AL TWEED LAKE 66.564-125.540 under closed chamber conditions according to LYNES STANDARD CLOSED CHAMBER TESTING PROCEDURE.

The surface pressure was monitored throughout the entire test. All measured data is presented both graphically and in tabular form in segments 3 and 4 of this report along with the calculated rates.

2.2 Results determined from the test data

1) PREFLOW

Flow time = 5.5 minutes
Surface pressure - start = 100.684 kPa
Surface pressure - end = 119.397 kPa

The indicated production is a low rate gas.

Initial gas rate = 714 m³/d @ .25 minutes of the flow
Maximum gas rate = 1019 m³/d @ .75 minutes of the flow
Last gas rate = 603 m³/d @ 5.5 minutes of the flow
Average gas rate = 463 m³/d - average from .5 to 5.5 minutes of the flow

2) INITIAL SHUT-IN

Shut-in time = 90 minutes

The surface pressure during the shut-in was essentially stable.

3) FINAL FLOW

Flow time = 210 minutes
Surface pressure - start = 123.102 kPa
Surface pressure - end = 1160.520 kPa at 138 minutes

Initial gas rate = 1052 m³/d @ .25 minutes of the flow
Maximum gas rate = 17813 m³/d @ .75 minutes of the flow
Last gas rate = 826 m³/d @ 138 minutes of the flow
Average gas rate = 980 m³/d - average from .25 to 138 minutes of the flow

The surface valve was opened 138 minutes into the

final flow. Therefore, the surface pressures after this time are not applicable for the closed chamber calculations.

4) FLUID RECOVERY

The reported fluid recovery was 35 meters of gas cut mud.

2.3 Comments on the test

The closed chamber results indicate a mechanically successful test. The surface pressure increases are greater than the fluid recovered could have produced. Therefore, gas was produced during the test.

The calculated gas rates are done assuming that the chamber volume does not change during the test (no fluid production). As this is not true, the resulting calculations will not be totally accurate.

2.4 Conclusion

The closed chamber and DST results suggest a zone of relatively low permeability.

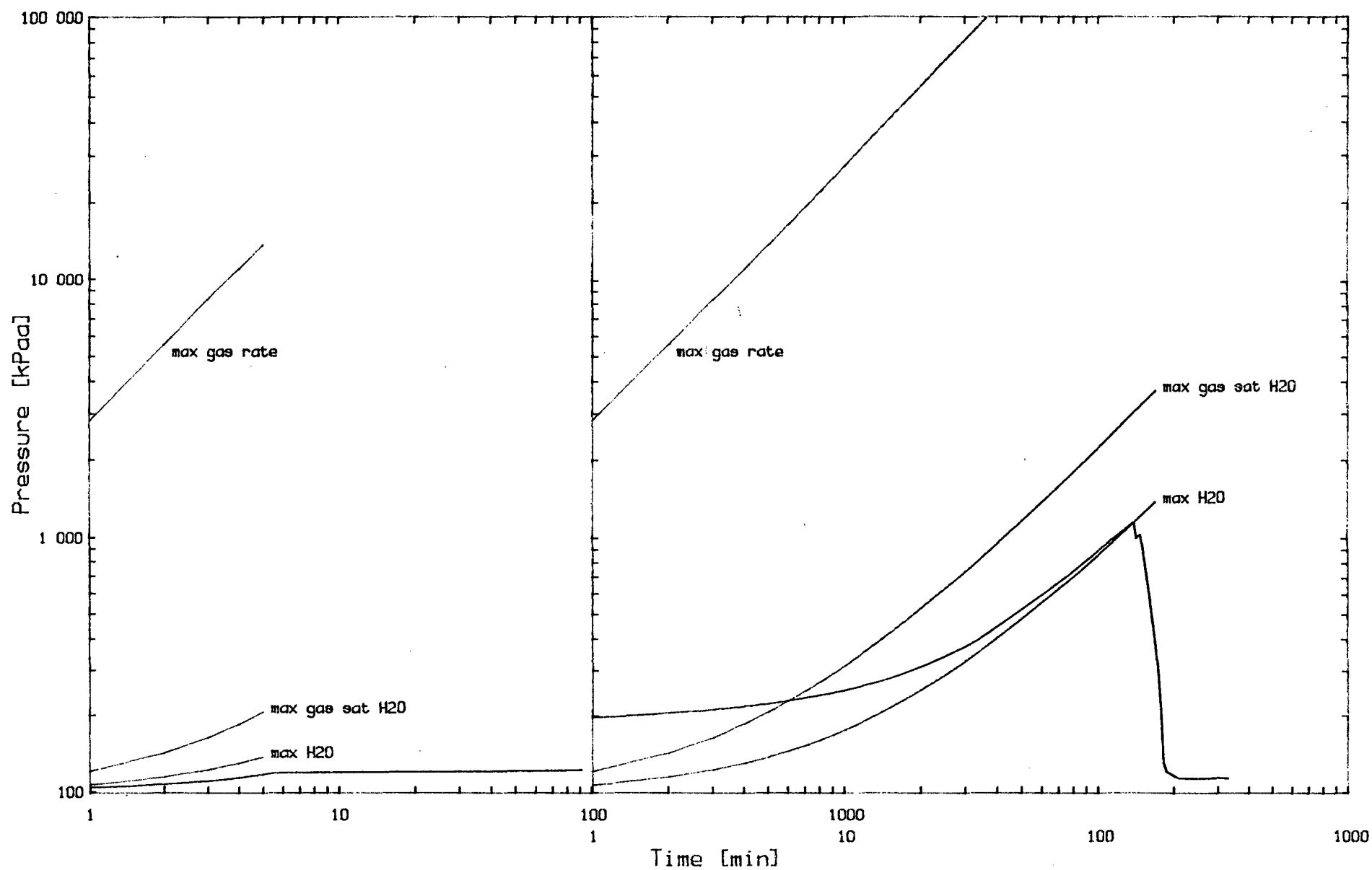
LYNES UNITED SERVICES

PCI ET AL TWEED LAKE

66.464 - 125.540

DST #2

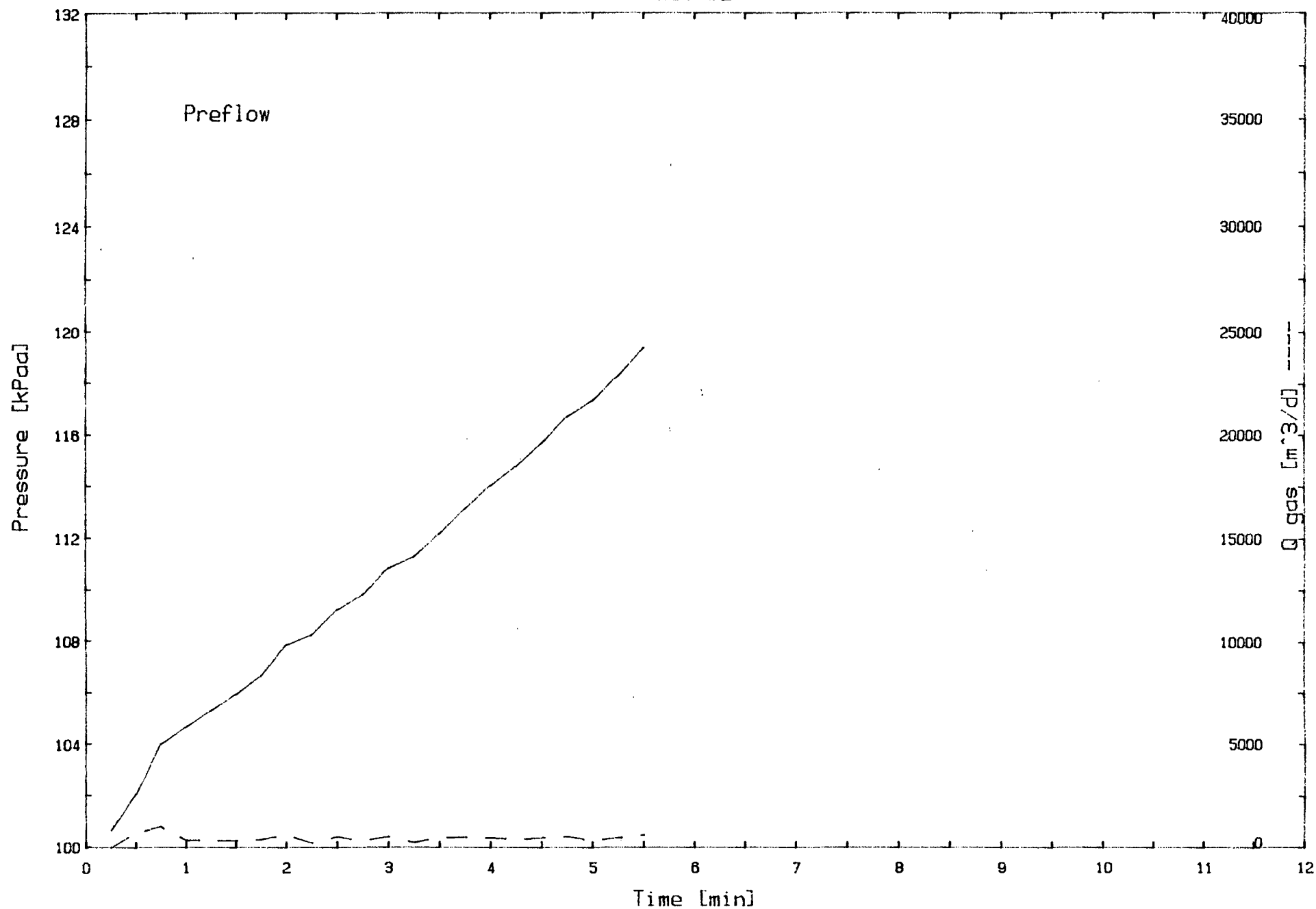
Fig. 3-1



LYNES UNITED SERVICES

PCI ET AL TWEED LAKE
66.464 - 125.540
DST #2

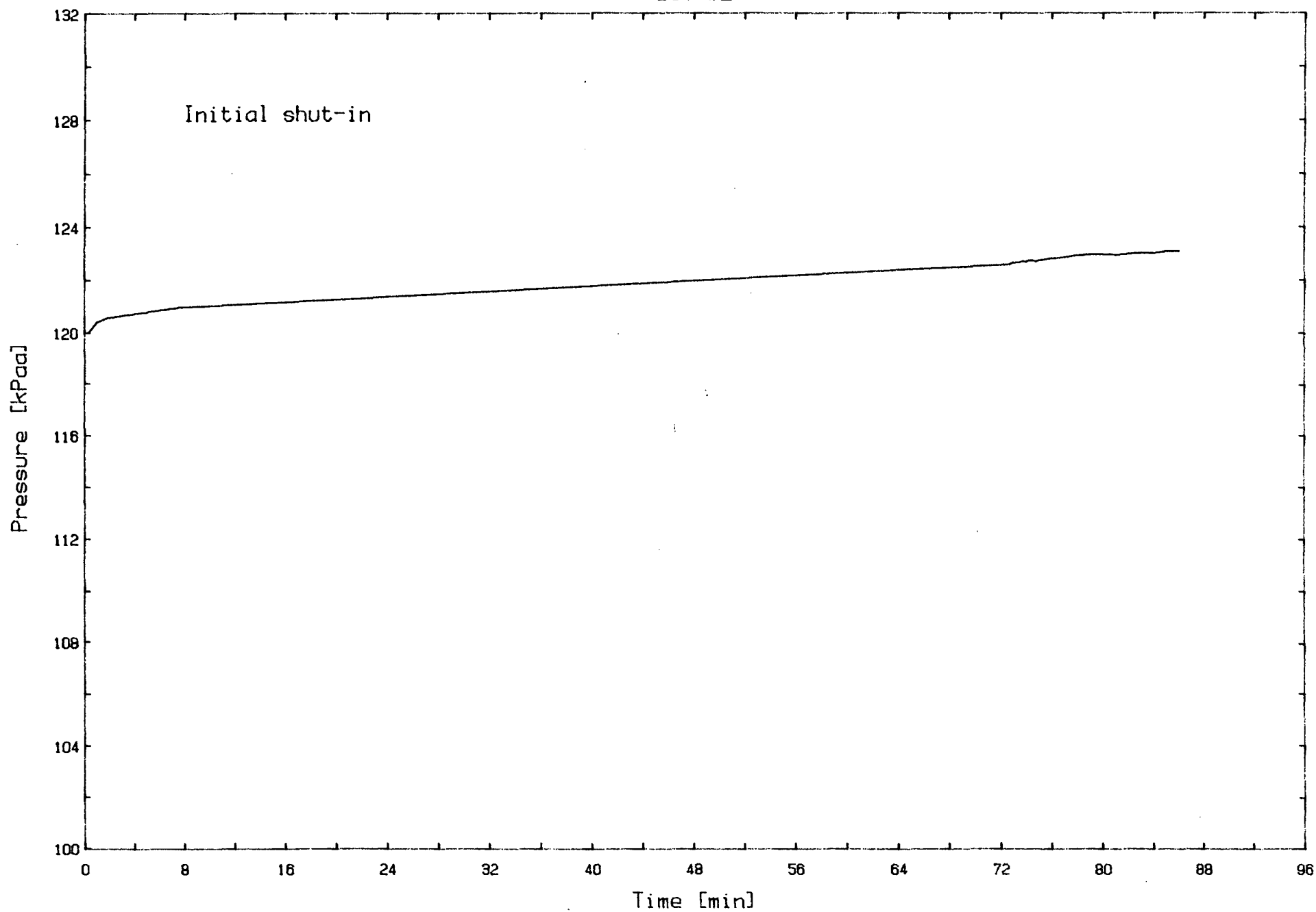
Fig. 3-2



LYNES UNITED SERVICES

PCI ET AL TWEED LAKE
66.464 - 125.540
DST #2

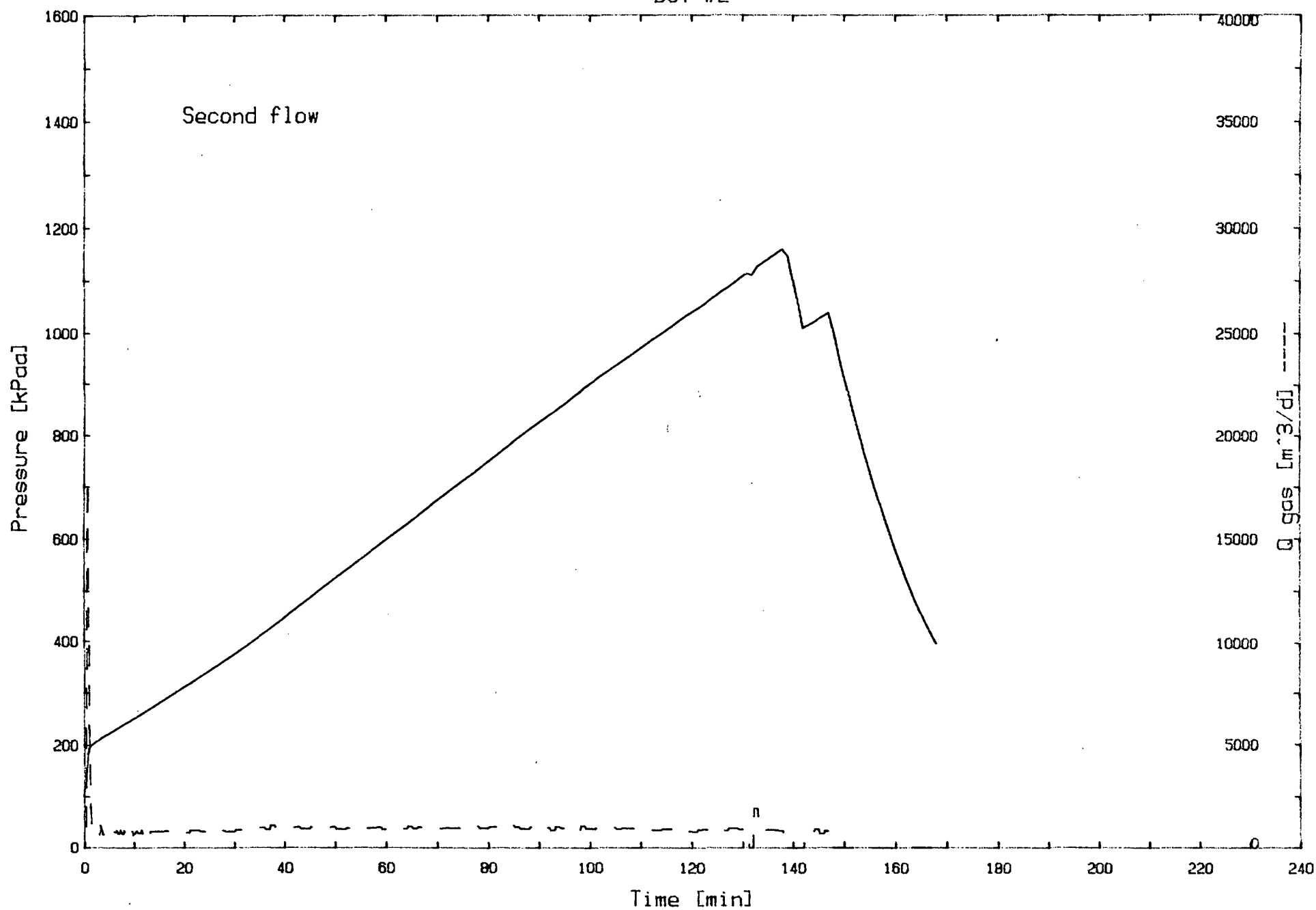
Fig. 3-3



LYNES UNITED SERVICES

PCI ET AL TWEED LAKE
66.464 - 125.540
DST #2

Fig. 3-4



4. DATA LISTINGS

First flow (surface valve closed, downhole valve open)

Elapsed time min	Press kPaa	dp/dt kPa/min	Qg m ³ /d
.25	100.684	0.000	0.000
.50	102.058	5.496	713.965
.75	104.019	7.844	1018.985
1.00	104.679	2.640	342.953
1.25	105.309	2.520	327.364
1.50	105.941	2.528	328.403
1.75	106.666	2.900	376.728
2.00	107.846	4.720	613.158
2.25	108.244	1.592	206.811
2.50	109.238	3.976	516.508
2.75	109.832	2.376	308.657
3.00	110.836	4.016	521.704
3.25	111.290	1.816	235.910
3.50	112.183	3.572	464.025
3.75	113.148	3.860	501.438
4.00	114.029	3.524	457.790
4.25	114.774	2.980	387.121
4.50	115.673	3.596	467.143
4.75	116.704	4.124	535.734
5.00	117.327	2.492	323.727
5.25	118.236	3.636	472.339
5.50	119.397	4.644	603.285

First shut-in (surface valve closed, downhole valve closed)

Elapsed time min	Press kPaa	dp/dt kPa/min
1.00	120.419	1.022
2.00	120.430	.011
3.00	120.637	.207
4.00	120.540	-.097
5.00	120.660	.120
6.00	120.780	.120
7.00	120.900	.120
8.00	120.727	-.173
9.00	120.808	.081
10.00	120.889	.081
11.00	120.970	.081
12.00	121.051	.081
13.00	120.549	-.502
14.00	120.583	.034
15.00	120.617	.034
16.00	120.652	.035
17.00	120.686	.034
18.00	120.720	.034
19.00	120.755	.035
20.00	120.789	.034
21.00	120.823	.034
22.00	120.858	.035
23.00	120.892	.034
24.00	120.926	.034
25.00	120.961	.035
26.00	120.995	.034
27.00	121.029	.034
28.00	121.064	.035
29.00	121.098	.034
30.00	121.132	.034
31.00	121.167	.035
32.00	121.201	.034
33.00	121.235	.034
34.00	121.270	.035
35.00	121.304	.034
36.00	121.338	.034
37.00	121.373	.035
38.00	121.407	.034
39.00	121.441	.034
40.00	121.476	.035
41.00	121.510	.034
42.00	121.544	.034
43.00	121.579	.035
44.00	121.613	.034
45.00	121.647	.034
46.00	121.682	.035
47.00	121.716	.034
48.00	121.750	.034

Elapsed time min	Press kPaa	dp/dt kPa/min
49.00	121.785	.035
50.00	121.819	.034
51.00	121.853	.034
52.00	121.888	.035
53.00	121.922	.034
54.00	121.956	.034
55.00	121.991	.035
56.00	122.025	.034
57.00	122.059	.034
58.00	122.094	.035
59.00	122.128	.034
60.00	122.162	.034
61.00	122.197	.035
62.00	122.231	.034
63.00	122.265	.034
64.00	122.300	.035
65.00	122.334	.034
66.00	122.368	.034
67.00	122.403	.035
68.00	122.437	.034
69.00	122.471	.034
70.00	122.506	.035
71.00	122.540	.034
72.00	122.574	.034
73.00	122.679	.105
74.00	122.691	.012
75.00	122.775	.084
76.00	122.815	.040
77.00	122.855	.040
78.00	122.936	.081
79.00	122.981	.045
80.00	122.986	.005
81.00	122.957	-.029
82.00	122.995	.038
83.00	123.032	.037
84.00	123.004	-.028
85.00	123.094	.090
86.00	123.099	.005

Second flow (surface valve closed, downhole valve open)

Elapsed time min	Press kPaa	dp/dt kPa/min	Qg m ³ /d
.25	125.125	8.096	1051.722
.50	148.603	93.912	12199.765
.75	182.884	137.124	17813.278
1.00	194.161	45.108	5859.815
1.25	198.175	16.056	2085.776
1.50	200.416	8.964	1164.480
1.75	202.337	7.684	998.200
2.00	204.272	7.740	1005.475
2.25	206.240	7.872	1022.623
2.50	207.968	6.912	897.913
2.75	209.366	5.592	726.436
3.00	210.428	4.248	551.842
3.25	212.562	8.536	1108.881
3.50	214.305	6.972	905.707
3.75	215.603	5.192	674.474
4.00	216.940	5.348	694.739
4.25	218.359	5.676	737.348
4.50	219.470	4.444	577.304
4.75	220.891	5.684	738.388
5.00	222.419	6.112	793.988
5.25	223.885	5.864	761.771
5.50	225.175	5.160	670.317
5.75	226.771	6.384	829.322
6.00	228.277	6.024	782.556
6.25	229.750	5.892	765.408
6.50	231.358	6.432	835.558
6.75	232.752	5.576	724.358
7.00	234.111	5.436	706.171
7.25	235.741	6.520	846.989
7.50	237.136	5.580	724.877
7.75	238.450	5.256	682.788
8.00	240.034	6.336	823.087
8.25	241.332	5.192	674.474
8.50	242.863	6.124	795.546
8.75	244.193	5.320	691.102
9.00	245.344	4.604	598.089
9.25	246.742	5.592	726.436
9.50	248.556	7.256	942.600
9.75	249.794	4.952	643.296
10.00	251.093	5.196	674.993
10.25	252.577	5.936	771.124
10.50	254.169	6.368	827.244
10.75	255.627	5.832	757.614
11.00	257.055	5.712	742.025
11.25	258.479	5.696	739.947
11.50	260.144	6.660	865.176
11.75	261.340	4.784	621.472
12.00	263.064	6.896	895.834

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
12.25	264.659	6.380	828.802
12.50	265.846	4.748	616.795
12.75	267.033	4.748	616.795
13.00	268.221	4.752	617.315
13.25	269.724	6.012	780.997
13.50	271.227	6.012	780.997
13.75	272.730	6.012	780.997
14.00	274.233	6.012	780.997
14.25	275.776	6.172	801.782
14.50	277.318	6.168	801.262
14.75	278.861	6.172	801.782
15.00	280.403	6.168	801.262
15.25	281.922	6.076	789.311
15.50	283.441	6.076	789.311
15.75	284.960	6.076	789.311
16.00	286.479	6.076	789.311
16.25	288.058	6.316	820.488
16.50	289.637	6.316	820.488
16.75	291.216	6.316	820.488
17.00	292.795	6.316	820.488
17.25	294.391	6.384	829.322
17.50	295.986	6.380	828.802
17.75	297.582	6.384	829.322
18.00	299.178	6.384	829.322
18.25	300.777	6.396	830.881
18.50	302.376	6.396	830.881
18.75	303.975	6.396	830.881
19.00	305.574	6.396	830.881
19.25	307.155	6.324	821.528
19.50	308.735	6.320	821.008
19.75	310.315	6.320	821.008
20.00	311.896	6.324	821.528
20.25	313.347	5.804	753.976
20.50	314.798	5.804	753.976
20.75	316.249	5.804	753.976
21.00	317.701	5.808	754.496
21.25	319.339	6.552	851.146
21.50	320.978	6.556	851.666
21.75	322.616	6.552	851.146
22.00	324.254	6.552	851.146
22.25	325.880	6.504	844.911
22.50	327.506	6.504	844.911
22.75	329.131	6.500	844.391
23.00	330.757	6.504	844.911
23.25	332.335	6.312	819.969
23.50	333.914	6.316	820.488
23.75	335.492	6.312	819.969
24.00	337.070	6.312	819.969
24.25	338.616	6.184	803.341
24.50	340.161	6.180	802.821
24.75	341.706	6.180	802.821
25.00	343.251	6.180	802.821

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
25.25	344.903	6.608	858.421
25.50	346.554	6.604	857.902
25.75	348.205	6.604	857.902
26.00	349.856	6.604	857.902
26.25	351.383	6.108	793.468
26.50	352.909	6.104	792.948
26.75	354.436	6.108	793.468
27.00	355.963	6.108	793.468
27.25	357.580	6.468	840.234
27.50	359.198	6.472	840.754
27.75	360.816	6.472	840.754
28.00	362.433	6.468	840.234
28.25	363.991	6.232	809.576
28.50	365.548	6.228	809.057
28.75	367.106	6.232	809.576
29.00	368.663	6.228	809.057
29.25	370.209	6.184	803.341
29.50	371.755	6.184	803.341
29.75	373.301	6.184	803.341
30.00	374.847	6.184	803.341
30.25	376.547	6.800	883.363
30.50	378.246	6.796	882.844
30.75	379.946	6.800	883.363
31.00	381.645	6.796	882.844
31.25	383.354	6.836	888.040
31.50	385.063	6.836	888.040
31.75	386.773	6.840	888.559
32.00	388.482	6.836	888.040
32.25	390.217	6.940	901.550
32.50	391.952	6.940	901.550
32.75	393.687	6.940	901.550
33.00	395.422	6.940	901.550
33.25	397.165	6.972	905.707
33.50	398.908	6.972	905.707
33.75	400.651	6.972	905.707
34.00	402.394	6.972	905.707
34.25	404.246	7.408	962.346
34.50	406.098	7.408	962.346
34.75	407.950	7.408	962.346
35.00	409.801	7.404	961.827
35.25	411.705	7.616	989.367
35.50	413.610	7.620	989.886
35.75	415.514	7.616	989.367
36.00	417.418	7.616	989.367
36.25	419.172	7.016	911.423
36.50	420.925	7.012	910.903
36.75	422.679	7.016	911.423
37.00	424.433	7.016	911.423
37.25	426.526	8.372	1087.576
37.50	428.619	8.372	1087.576
37.75	430.712	8.372	1087.576
38.00	432.805	8.372	1087.576

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
38.25	434.721	7.664	995.602
38.50	436.637	7.664	995.602
38.75	438.553	7.664	995.602
39.00	440.469	7.664	995.602
39.25	442.401	7.728	1003.916
39.50	444.332	7.724	1003.397
39.75	446.264	7.728	1003.916
40.00	448.196	7.728	1003.916
40.25	450.151	7.820	1015.868
40.50	452.107	7.824	1016.387
40.75	454.063	7.824	1016.387
41.00	456.019	7.824	1016.387
41.25	457.947	7.712	1001.838
41.50	459.876	7.716	1002.357
41.75	461.804	7.712	1001.838
42.00	463.733	7.716	1002.357
42.25	465.707	7.896	1025.741
42.50	467.682	7.900	1026.260
42.75	469.657	7.900	1026.260
43.00	471.631	7.896	1025.741
43.25	473.469	7.352	955.071
43.50	475.308	7.356	955.591
43.75	477.146	7.352	955.071
44.00	478.984	7.352	955.071
44.25	480.811	7.308	949.356
44.50	482.639	7.312	949.875
44.75	484.466	7.308	949.356
45.00	486.293	7.308	949.356
45.25	488.246	7.812	1014.828
45.50	490.199	7.812	1014.828
45.75	492.152	7.812	1014.828
46.00	494.105	7.812	1014.828
46.25	496.068	7.852	1020.025
46.50	498.030	7.848	1019.505
46.75	499.993	7.852	1020.025
47.00	501.955	7.848	1019.505
47.25	503.788	7.332	952.473
47.50	505.621	7.332	952.473
47.75	507.454	7.332	952.473
48.00	509.287	7.332	952.473
48.25	511.188	7.604	987.808
48.50	513.088	7.600	987.288
48.75	514.989	7.604	987.808
49.00	516.889	7.600	987.288
49.25	518.864	7.900	1026.260
49.50	520.840	7.904	1026.780
49.75	522.815	7.900	1026.260
50.00	524.790	7.900	1026.260
50.25	526.609	7.276	945.199
50.50	528.427	7.272	944.679
50.75	530.246	7.276	945.199
51.00	532.064	7.272	944.679

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
51.25	533.849	7.140	927.531
51.50	535.633	7.136	927.012
51.75	537.418	7.140	927.531
52.00	539.203	7.140	927.531
52.25	541.055	7.408	962.346
52.50	542.906	7.404	961.827
52.75	544.758	7.408	962.346
53.00	546.610	7.408	962.346
53.25	548.482	7.488	972.739
53.50	550.354	7.488	972.739
53.75	552.226	7.488	972.739
54.00	554.098	7.488	972.739
54.25	555.983	7.540	979.494
54.50	557.868	7.540	979.494
54.75	559.753	7.540	979.494
55.00	561.638	7.540	979.494
55.25	563.374	6.944	902.070
55.50	565.109	6.940	901.550
55.75	566.845	6.944	902.070
56.00	568.580	6.940	901.550
56.25	570.411	7.324	951.434
56.50	572.241	7.320	950.914
56.75	574.072	7.324	951.434
57.00	575.902	7.320	950.914
57.25	577.755	7.412	962.866
57.50	579.608	7.412	962.866
57.75	581.461	7.412	962.866
58.00	583.314	7.412	962.866
58.25	585.221	7.628	990.926
58.50	587.128	7.628	990.926
58.75	589.036	7.632	991.445
59.00	590.943	7.628	990.926
59.25	592.695	7.008	910.384
59.50	594.448	7.012	910.903
59.75	596.201	7.012	910.903
60.00	597.953	7.008	910.384
60.25	599.887	7.736	1004.955
60.50	601.821	7.736	1004.955
60.75	603.754	7.732	1004.436
61.00	605.688	7.736	1004.955
61.25	607.542	7.416	963.385
61.50	609.396	7.416	963.385
61.75	611.250	7.416	963.385
62.00	613.104	7.416	963.385
62.25	614.902	7.192	934.286
62.50	616.700	7.192	934.286
62.75	618.499	7.196	934.806
63.00	620.297	7.192	934.286
63.25	622.100	7.212	936.885
63.50	623.903	7.212	936.885
63.75	625.706	7.212	936.885
64.00	627.509	7.212	936.885

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
64.25	629.495	7.944	1031.976
64.50	631.482	7.948	1032.496
64.75	633.469	7.948	1032.496
65.00	635.455	7.944	1031.976
65.25	637.303	7.392	960.268
65.50	639.151	7.392	960.268
65.75	640.999	7.392	960.268
66.00	642.847	7.392	960.268
66.25	644.782	7.740	1005.475
66.50	646.717	7.740	1005.475
66.75	648.652	7.740	1005.475
67.00	650.587	7.740	1005.475
67.25	652.507	7.680	997.681
67.50	654.427	7.680	997.681
67.75	656.347	7.680	997.681
68.00	658.267	7.680	997.681
68.25	660.255	7.952	1033.015
68.50	662.243	7.952	1033.015
68.75	664.231	7.952	1033.015
69.00	666.219	7.952	1033.015
69.25	668.131	7.648	993.524
69.50	670.043	7.648	993.524
69.75	671.954	7.644	993.004
70.00	673.866	7.648	993.524
70.25	675.705	7.356	955.591
70.50	677.543	7.352	955.071
70.75	679.382	7.356	955.591
71.00	681.221	7.356	955.591
71.25	683.103	7.528	977.935
71.50	684.986	7.532	978.455
71.75	686.869	7.532	978.455
72.00	688.752	7.532	978.455
72.25	690.602	7.400	961.307
72.50	692.451	7.396	960.787
72.75	694.301	7.400	961.307
73.00	696.151	7.400	961.307
73.25	698.043	7.568	983.131
73.50	699.936	7.572	983.651
73.75	701.828	7.568	983.131
74.00	703.721	7.572	983.651
74.25	705.607	7.544	980.013
74.50	707.493	7.544	980.013
74.75	709.379	7.544	980.013
75.00	711.265	7.544	980.013
75.25	713.051	7.144	928.051
75.50	714.837	7.144	928.051
75.75	716.622	7.140	927.531
76.00	718.408	7.144	928.051
76.25	720.215	7.228	938.963
76.50	722.022	7.228	938.963
76.75	723.828	7.224	938.443
77.00	725.635	7.228	938.963

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
77.25	727.619	7.936	1030.937
77.50	729.604	7.940	1031.456
77.75	731.588	7.936	1030.937
78.00	733.572	7.936	1030.937
78.25	735.420	7.392	960.268
78.50	737.267	7.388	959.748
78.75	739.115	7.392	960.268
79.00	740.963	7.392	960.268
79.25	742.793	7.320	950.914
79.50	744.623	7.320	950.914
79.75	746.454	7.324	951.434
80.00	748.284	7.320	950.914
80.25	750.218	7.736	1004.955
80.50	752.152	7.736	1004.955
80.75	754.086	7.736	1004.955
81.00	756.020	7.736	1004.955
81.25	757.969	7.796	1012.750
81.50	759.917	7.792	1012.230
81.75	761.866	7.796	1012.750
82.00	763.815	7.796	1012.750
82.25	765.819	8.016	1041.329
82.50	767.823	8.016	1041.329
82.75	769.827	8.016	1041.329
83.00	771.831	8.016	1041.329
83.25	773.713	7.528	977.935
83.50	775.595	7.528	977.935
83.75	777.478	7.532	978.455
84.00	779.360	7.528	977.935
84.25	781.439	8.316	1080.301
84.50	783.517	8.312	1079.782
84.75	785.596	8.316	1080.301
85.00	787.675	8.316	1080.301
85.25	789.642	7.868	1022.103
85.50	791.610	7.872	1022.623
85.75	793.577	7.868	1022.103
86.00	795.545	7.872	1022.623
86.25	797.373	7.312	949.875
86.50	799.200	7.308	949.356
86.75	801.028	7.312	949.875
87.00	802.856	7.312	949.875
87.25	804.622	7.064	917.658
87.50	806.388	7.064	917.658
87.75	808.155	7.068	918.178
88.00	809.921	7.064	917.658
88.25	811.837	7.664	995.602
88.50	813.753	7.664	995.602
88.75	815.669	7.664	995.602
89.00	817.585	7.664	995.602
89.25	819.256	6.684	868.294
89.50	820.928	6.688	868.814
89.75	822.599	6.684	868.294
90.00	824.270	6.684	868.294

Elapsed time min	Press kPaa	dp/dt kPa/min	Dg m ³ /d
90.25	826.141	7.484	972.219
90.50	828.012	7.484	972.219
90.75	829.883	7.484	972.219
91.00	831.754	7.484	972.219
91.25	833.602	7.392	960.268
91.50	835.449	7.388	959.748
91.75	837.297	7.392	960.268
92.00	839.145	7.392	960.268
92.25	840.795	6.600	857.382
92.50	842.446	6.604	857.902
92.75	844.097	6.604	857.902
93.00	845.747	6.600	857.382
93.25	847.689	7.768	1009.112
93.50	849.631	7.768	1009.112
93.75	851.573	7.768	1009.112
94.00	853.514	7.764	1008.593
94.25	855.377	7.452	968.062
94.50	857.239	7.448	967.542
94.75	859.101	7.448	967.542
95.00	860.964	7.452	968.062
95.25	862.872	7.632	991.445
95.50	864.780	7.632	991.445
95.75	866.688	7.632	991.445
96.00	868.596	7.632	991.445
96.25	870.634	8.152	1058.997
96.50	872.672	8.152	1058.997
96.75	874.711	8.156	1059.516
97.00	876.749	8.152	1058.997
97.25	878.463	6.856	890.638
97.50	880.176	6.852	890.118
97.75	881.890	6.856	890.638
98.00	883.603	6.852	890.118
98.25	885.614	8.044	1044.967
98.50	887.625	8.044	1044.967
98.75	889.636	8.044	1044.967
99.00	891.647	8.044	1044.967
99.25	893.472	7.300	948.316
99.50	895.297	7.300	948.316
99.75	897.121	7.296	947.797
100.00	898.946	7.300	948.316
100.25	900.725	7.116	924.414
100.50	902.504	7.116	924.414
100.75	904.283	7.116	924.414
101.00	906.062	7.116	924.414
101.25	907.953	7.564	982.612
101.50	909.843	7.560	982.092
101.75	911.734	7.564	982.612
102.00	913.624	7.560	982.092
102.25	915.468	7.376	958.189
102.50	917.312	7.376	958.189
102.75	919.156	7.376	958.189
103.00	921.000	7.376	958.189

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
103.25	922.764	7.056	916.619
103.50	924.529	7.060	917.139
103.75	926.293	7.056	916.619
104.00	928.057	7.056	916.619
104.25	929.924	7.468	970.141
104.50	931.791	7.468	970.141
104.75	933.658	7.468	970.141
105.00	935.524	7.464	969.621
105.25	937.296	7.088	920.776
105.50	939.068	7.088	920.776
105.75	940.839	7.084	920.257
106.00	942.611	7.088	920.776
106.25	944.438	7.308	949.356
106.50	946.264	7.304	948.836
106.75	948.091	7.308	949.356
107.00	949.918	7.308	949.356
107.25	951.712	7.176	932.208
107.50	953.506	7.176	932.208
107.75	955.300	7.176	932.208
108.00	957.095	7.180	932.728
108.25	958.889	7.176	932.208
108.50	960.683	7.176	932.208
108.75	962.478	7.180	932.728
109.00	964.272	7.176	932.208
109.25	966.066	7.176	932.208
109.50	967.861	7.180	932.728
109.75	969.655	7.176	932.208
110.00	971.449	7.176	932.208
110.25	973.243	7.176	932.208
110.50	975.038	7.180	932.728
110.75	976.832	7.176	932.208
111.00	978.626	7.176	932.208
111.25	980.421	7.180	932.728
111.50	982.215	7.176	932.208
111.75	984.009	7.176	932.208
112.00	985.803	7.176	932.208
112.25	987.437	6.536	849.068
112.50	989.070	6.532	848.548
112.75	990.703	6.532	848.548
113.00	992.336	6.532	848.548
113.25	993.997	6.644	863.098
113.50	995.658	6.644	863.098
113.75	997.320	6.648	863.617
114.00	998.981	6.644	863.098
114.25	1000.690	6.836	888.040
114.50	1002.400	6.840	888.559
114.75	1004.120	6.880	893.756
115.00	1005.830	6.840	888.559
115.25	1007.540	6.840	888.559
115.50	1009.250	6.840	888.559
115.75	1010.960	6.840	888.559
116.00	1012.670	6.840	888.559

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
116.25	1014.500	7.320	950.914
116.50	1016.330	7.320	950.914
116.75	1018.170	7.360	956.111
117.00	1020.000	7.320	950.914
117.25	1021.800	7.200	935.326
117.50	1023.590	7.160	930.129
117.75	1025.390	7.200	935.326
118.00	1027.190	7.200	935.326
118.25	1028.860	6.680	867.774
118.50	1030.540	6.720	872.971
118.75	1032.210	6.680	867.774
119.00	1033.890	6.720	872.971
119.25	1035.420	6.120	795.027
119.50	1036.950	6.120	795.027
119.75	1038.480	6.120	795.027
120.00	1040.010	6.120	795.027
120.25	1041.490	5.920	769.046
120.50	1042.970	5.920	769.046
120.75	1044.460	5.960	774.242
121.00	1045.940	5.920	769.046
121.25	1047.570	6.520	846.989
121.50	1049.200	6.520	846.989
121.75	1050.830	6.520	846.989
122.00	1052.460	6.520	846.989
122.25	1054.150	6.760	878.167
122.50	1055.840	6.760	878.167
122.75	1057.530	6.760	878.167
123.00	1059.220	6.760	878.167
123.25	1061.080	7.440	966.503
123.50	1062.940	7.440	966.503
123.75	1064.800	7.440	966.503
124.00	1066.660	7.440	966.503
124.25	1068.400	6.960	904.148
124.50	1070.130	6.920	898.952
124.75	1071.860	6.920	898.952
125.00	1073.600	6.960	904.148
125.25	1075.370	7.080	919.737
125.50	1077.140	7.080	919.737
125.75	1078.910	7.080	919.737
126.00	1080.680	7.080	919.737
126.25	1082.290	6.440	836.597
126.50	1083.900	6.440	836.597
126.75	1085.500	6.400	831.401
127.00	1087.110	6.440	836.597
127.25	1088.910	7.200	935.326
127.50	1090.700	7.160	930.129
127.75	1092.500	7.200	935.326
128.00	1094.300	7.200	935.326
128.25	1096.120	7.280	945.718
128.50	1097.950	7.320	950.914
128.75	1099.780	7.320	950.914
129.00	1101.610	7.320	950.914

Lapsed time min	Press kPaa	dp/dt kPa/min	Qg m ³ /d
129.25	1103.370	7.040	914.541
129.50	1105.140	7.080	919.737
129.75	1106.900	7.040	914.541
130.00	1108.670	7.080	919.737
130.25	1110.150	5.920	769.046
130.50	1111.640	5.960	774.242
130.75	1113.120	5.920	769.046
131.00	1114.610	5.960	774.242
131.25	1114.070	0.000	0.000
131.50	1113.520	0.000	0.000
131.75	1112.980	0.000	0.000
132.00	1112.440	0.000	0.000
132.25	1116.130	14.760	1917.418
132.50	1119.820	14.760	1917.418
132.75	1123.510	14.760	1917.418
133.00	1127.200	14.760	1917.418
133.25	1128.950	7.000	909.344
133.50	1130.690	6.960	904.148
133.75	1132.440	7.000	909.344
134.00	1134.180	6.960	904.148
134.25	1135.850	6.680	867.774
134.50	1137.520	6.680	867.774
134.75	1139.180	6.640	862.578
135.00	1140.850	6.680	867.774
135.25	1142.530	6.720	872.971
135.50	1144.200	6.680	867.774
135.75	1145.880	6.720	872.971
136.00	1147.560	6.720	872.971
136.25	1149.210	6.600	857.382
136.50	1150.860	6.600	857.382
136.75	1152.520	6.640	862.578
137.00	1154.170	6.600	857.382
137.25	1155.760	6.360	826.204
137.50	1157.340	6.320	821.008
137.75	1158.930	6.360	826.204
138.00	1160.520	6.360	826.204
138.25	1157.490	0.000	0.000
138.50	1154.470	0.000	0.000
138.75	1151.450	0.000	0.000
139.00	1148.420	0.000	0.000
139.25	1137.450	0.000	0.000
139.50	1126.480	0.000	0.000
139.75	1115.510	0.000	0.000
140.00	1104.540	0.000	0.000
140.25	1093.160	0.000	0.000
140.50	1081.780	0.000	0.000
140.75	1070.400	0.000	0.000
141.00	1059.020	0.000	0.000
141.25	1047.080	0.000	0.000
141.50	1035.150	0.000	0.000
141.75	1023.210	0.000	0.000
142.00	1011.270	0.000	0.000

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
142.25	1012.320	4.200	545.607
142.50	1013.370	4.200	545.607
142.75	1014.410	4.160	540.410
143.00	1015.460	4.200	545.607
143.25	1016.840	5.520	717.083
143.50	1018.230	5.560	722.279
143.75	1019.610	5.520	717.083
144.00	1020.990	5.520	717.083
144.25	1022.680	6.760	878.167
144.50	1024.360	6.720	872.971
144.75	1026.040	6.720	872.971
145.00	1027.720	6.720	872.971
145.25	1029.050	5.320	691.102
145.50	1030.370	5.280	685.906
145.75	1031.690	5.280	685.906
146.00	1033.010	5.280	685.906
146.25	1034.550	6.160	800.223
146.50	1036.080	6.120	795.027
146.75	1037.620	6.160	800.223
147.00	1039.150	6.120	795.027
147.25	1030.420	0.000	0.000
147.50	1021.680	0.000	0.000
147.75	1012.950	0.000	0.000
148.00	1004.220	0.000	0.000
148.25	993.249	0.000	0.000
148.50	982.278	0.000	0.000
148.75	971.306	0.000	0.000
149.00	960.335	0.000	0.000
149.25	949.793	0.000	0.000
149.50	939.251	0.000	0.000
149.75	928.709	0.000	0.000
150.00	918.167	0.000	0.000
150.25	908.393	0.000	0.000
150.50	898.620	0.000	0.000
150.75	888.846	0.000	0.000
151.00	879.073	0.000	0.000
151.25	869.300	0.000	0.000
151.50	859.526	0.000	0.000
151.75	849.753	0.000	0.000
152.00	839.979	0.000	0.000
152.25	830.893	0.000	0.000
152.50	821.807	0.000	0.000
152.75	812.721	0.000	0.000
153.00	803.634	0.000	0.000
153.25	794.548	0.000	0.000
153.50	785.462	0.000	0.000
153.75	776.376	0.000	0.000
154.00	767.289	0.000	0.000
154.25	758.925	0.000	0.000
154.50	750.561	0.000	0.000
154.75	742.197	0.000	0.000
155.00	733.833	0.000	0.000

Elapsed time min	Press kPa	dp/dt kPa/min	Qg m ³ /d
155.25	725.469	0.000	0.000
155.50	717.105	0.000	0.000
155.75	708.741	0.000	0.000
156.00	700.377	0.000	0.000
156.25	692.613	0.000	0.000
156.50	684.850	0.000	0.000
156.75	677.087	0.000	0.000
157.00	669.324	0.000	0.000
157.25	661.561	0.000	0.000
157.50	653.798	0.000	0.000
157.75	646.035	0.000	0.000
158.00	638.272	0.000	0.000
158.25	631.202	0.000	0.000
158.50	624.133	0.000	0.000
158.75	617.063	0.000	0.000
159.00	609.993	0.000	0.000
159.25	602.923	0.000	0.000
159.50	595.854	0.000	0.000
159.75	588.784	0.000	0.000
160.00	581.714	0.000	0.000
160.25	575.103	0.000	0.000
160.50	568.493	0.000	0.000
160.75	561.882	0.000	0.000
161.00	555.271	0.000	0.000
161.25	548.660	0.000	0.000
161.50	542.050	0.000	0.000
161.75	535.439	0.000	0.000
162.00	528.828	0.000	0.000
162.25	522.874	0.000	0.000
162.50	516.920	0.000	0.000
162.75	510.966	0.000	0.000
163.00	505.012	0.000	0.000
163.25	499.058	0.000	0.000
163.50	493.104	0.000	0.000
163.75	487.150	0.000	0.000
164.00	481.196	0.000	0.000
164.25	475.800	0.000	0.000
164.50	470.404	0.000	0.000
164.75	465.008	0.000	0.000
165.00	459.612	0.000	0.000
165.25	454.216	0.000	0.000
165.50	448.820	0.000	0.000
165.75	443.424	0.000	0.000
166.00	438.028	0.000	0.000
166.25	433.137	0.000	0.000
166.50	428.247	0.000	0.000
166.75	423.356	0.000	0.000
167.00	418.465	0.000	0.000
167.25	413.575	0.000	0.000
167.50	408.684	0.000	0.000
167.75	403.793	0.000	0.000
168.00	398.903	0.000	0.000

PCI ET AL TWEED LAKE
66.464 - 125.540
DST #2

APPENDIX A

A.1 PRETEST PLANNING PARAMETERS AND CALCULATIONS

1 Surface temperature	278.150 deg K	measured
2 Average chamber temperature	279.550 deg K	(est. from temp + surftemp)/2
3 Chamber deviation factor(z)	.950	given
4 Sump volume	.290 m ³	calculated
5 Top packer depth	1188.000 mKB	given
6 Bottom packer depth	1199.000 mKB	given
7 Test valve depth	1178.000 mKB	given
8 Stick up above KB	3.960 mKB	given
9 Total chamber length	1176.980 m	given
10 Lower drill collar length	85.580 m	given
11 Lower drill collar ID	72.000 mm	given
12 Lower drill collar capacity	.00407 m ³ /m	calculated
13 Lower drill collar volume	.348 m ³	calculated
14 Upper drill collar length	0.000 m	given
15 Upper drill collar ID	0.000 mm	given
16 Upper drill collar capacity	0.00000 m ³ /m	calculated
17 Upper drill collar volume	0.000 m ³	calculated
18 Lower drill pipe length	1091.400 m	given
19 Lower drill pipe size	114.300 mm	given
20 Lower drill pipe capacity	.00740 m ³ /m	given
21 Lower drill pipe volume	8.076 m ³	calculated
22 Upper drill pipe length	0.000 m	given
23 Upper drill pipe size	0.000 mm	given
24 Upper drill pipe capacity	0.00000 m ³ /m	given
25 Upper drill pipe volume	0.000 m ³	calculated
26 Total chamber volume	8.425 m ³	total of tubular volumes
27 Water cushion length	0.000 m	measured
28 Water cushion volume	0.000 m ³	calculated
29 Net air/gas volume	8.425 m ³	calculated
30 Minimum time to produce sump volume	.486 min	calculated
31 Corresponding surface pressure increase	3.861 kPa	calculated

A.2 MAXIMUM POSSIBLE RATES OF dp/dt AND FLOW:

27 Gas	2749.295 kPa/min	341461.744 m ³ /d
28 Gas saturated water	21.488 kPa/min	1717.021 m ³ /d
29 Gas free water	7.664 kPa/min	858.511 m ³ /d

A.3 PRETEST PLANNING SUMMARY

From the above parameters it is clear that a surface pressure change greater than 2749.295 kPa/min would not occur during this test. Surface pressure changes greater than 21.488 kPa/min indicate hydrocarbon influx, and pressure changes less than 7.664 kPa/min may indicate liquid or low rate gas.

If gas is produced, a surface pressure increase of 1 kPa/min corresponds to 124.2 m³/d of gas influx to the chamber.

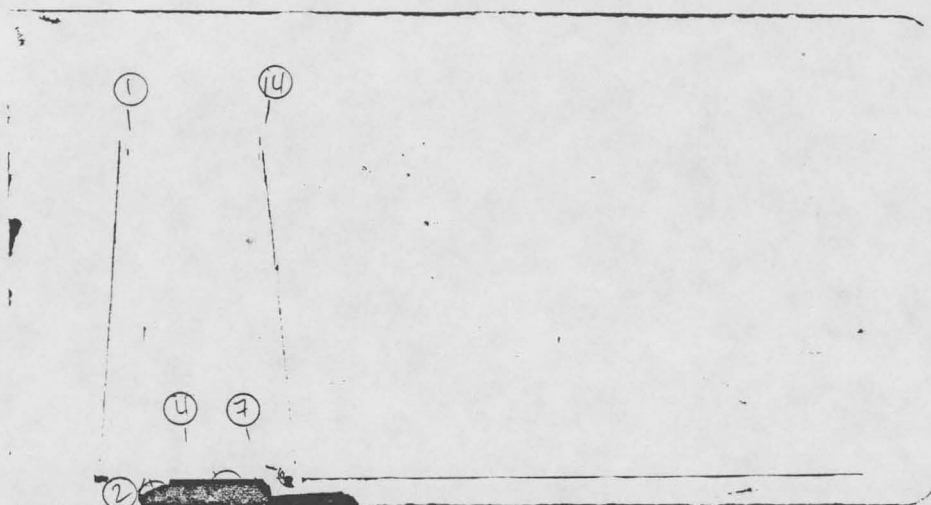
DST 3



PCI ET AL TWEED LAKE M-47
 400/ 66.564 / 125.540 /00
 DST#03
 1155.00m to 1170.00m
 MOUNT CAP

DEPTH: 1156.00m

RECORDER # 013480



PRESSURE kPa

- 1) Initial Hydro : 14949.
- 2) 1st Flow Start: 389.
- 3) 1st Flow End : 373.
- 4) END 1st Shutin: 927.
- 5) 2nd Flow Start: 406.
- 6) 2nd Flow End : 480.
- 7) END 2nd Shutin: 1051.
- 8) 3rd Flow Start: 497.
- 9) 3rd Flow End : 488.
- 10) END 3rd Shutin:
- 14) Final Hydro. : 14760.

TEST TIMES (MIN)

- 1st FLOW : 5.
 SHUTIN: 120.
 2nd FLOW : 66.
 SHUTIN: 120.
 3rd FLOW : 15.
 SHUTIN:

RECOVERY DATA

TOTAL FLUID RECOVERY CONSISTED OF 10.00 M OF MUD. NO GAS TO SURFACE.

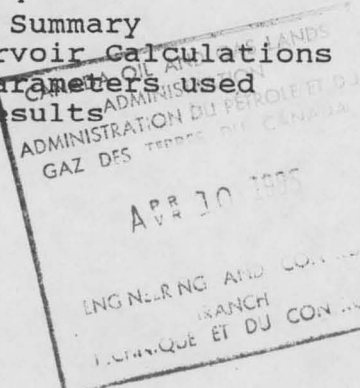
REMARKS AND TEST SUMMARY

Test results indicate a mechanically successful test. Bottom hole pressures and the shape of the shut-in curves suggest VIRTUALLY NO PERMEABILITY within the interval tested. Recorder #8887 - was run below the bottom packer and is indicating a bleed-off.

TABLE OF CONTENTS

PAGE 1	PAGE 2	PAGE 3	PAGE 4
General Data	Tool Sequence	PRESSURE	Plot Summary
Blow Description	Recorder Summary	-TIME	Reservoir Calculations
Liquid Recovery	Mud and Hole Data	LISTING	-Parameters used
Gas Measurements			-Results

***** RECORDER PAGES & FIGURES *****



Well name : PCI ET AL TWEED LAKE M-47
Location : 400/ 66.564 / 125.540 /00
Interval : 1155.00m to 1170.00m
Test Date : 85/02/18
Test Type : INFLATE STRADDLE
Formation : MOUNT CAP

K.B.Elevation : 435.22m
Grd.Elevation : 429.10m
TD @ test Date: 1420.00m
Ticket Number : 66112
Unit Number :

Started in hole at : 0450 hrs
Tool opened at : 0746 hrs
Reverse circulated?: NO
Contractor & Rig No: ATCO #76
Lynes#3 : 1 of 1 on the same trip.

Operator: PETRO-CANADA INC.
ROOM 937 WEST
150 - 6TH AVE. S.W.
CALGARY ALBERTA
T2P3E3

Company Rep : PRICHUK M
Testers : BABYAK R

10 REPORTS(S) TO: DIANNE THEISEN
Company:

BLOW DESCRIPTION

Weak air blow increasing slightly on preflow. No gas to surface.
Weak air blow decreasing to nil in 2 minutes on final flow.

TOTAL LIQUID RECOVERY : 10.00m

For DST# 3 through DST# 3
2 Fluid Samples
Sent to: CORE LABS
EDMONTON
Btm. Hole Sampler #: 236,158
Sent to: CORE LABS
EDMONTON

10.00m MUD.

GAS MEASUREMENTS

No Gas Measurements

TOOL SEQUENCE

RECORDER SUMMARY

SUB	LENGTH (m)
PUMP OUT SUB	.30
CROSS OVER SUB	.30
INSIDE RECORDER	1.38
HYDRAULIC TOOL	1.50
BTM. HOLE SAMPLER	1.03
BTM. HOLE SAMPLER	1.03
INSIDE RECORDER	1.38
HYDRAULIC JARS	2.19
SAFETY JOINT	.65
INFLATE PUMP	2.28
SCREEN	1.16
TOP INFLATE PACKER	1.78
PACKER STICK DOWN	.82
PORTED COMB. SUB	.30
RECORDER CARRIER	2.06
SPACING	1.12
CROSS OVER SUB	.30
DRILL COLLARS	9.60
CROSS OVER SUB	.30
PACKER STICK UP	.50
BTM INFLATE PACKER	1.90
PERFORATIONS	.15
INSIDE RECORDER	1.82
BELLY SPRING	2.00

1) NUMBER : 001749	ELECTRONIC GAUGE.
TYPE : DMRB	PRESSURES AND
LOCATION: OUTSIDE	TEMPERATURE.
RANGE: 68900.00kPa (a)	
DEPTH : 1156.00m	
2) NUMBER : 008887	BELOW INTERVAL
TYPE : K-3	RECORDER.
LOCATION: INSIDE	
RANGE: 20000.00kPa	
DEPTH : 1174.00m	
3) NUMBER : 013480	
TYPE : K-3	
LOCATION: OUTSIDE	
RANGE: 20000.00kPa	
DEPTH : 1156.00m	
4) NUMBER : 014103	ABOVE HYDRAULIC
TYPE : K-3	TOOL RECORDER.
LOCATION: INSIDE	
RANGE: 20000.00kPa	
DEPTH : 1143.00m	
5) NUMBER : 017737	ABOVE INTERVAL
TYPE : K-3	RECORDER.
LOCATION: INSIDE	
RANGE: 21000.00kPa	
DEPTH : 1147.00m	

***** TOOL TOTAL 35.85

DRILL COLLARS

ID= 72.0mm: 86.54

ID= :

DRILL PIPE

OD=114.3mm: 1063.78

OD= :

COLLAR-PIPE TOTAL 1150.32

STICK UP ABOVE TABLE : 10.30

TOOL ABOVE INTERVAL : 14.98

TOTAL INTERVAL : 15.00

BOTTOM CHOKE SIZE: 25.40 mm

MUD AND HOLE DATA

Calipered Hole Size @ Test Depth:

Hole Condition at Test Time :

Hole Conditioned Prior to Test? :

Mud Weight : 1265.0 kg/m3

Mud Type : SALT GEL

Mud Viscosity : 61.0s/1

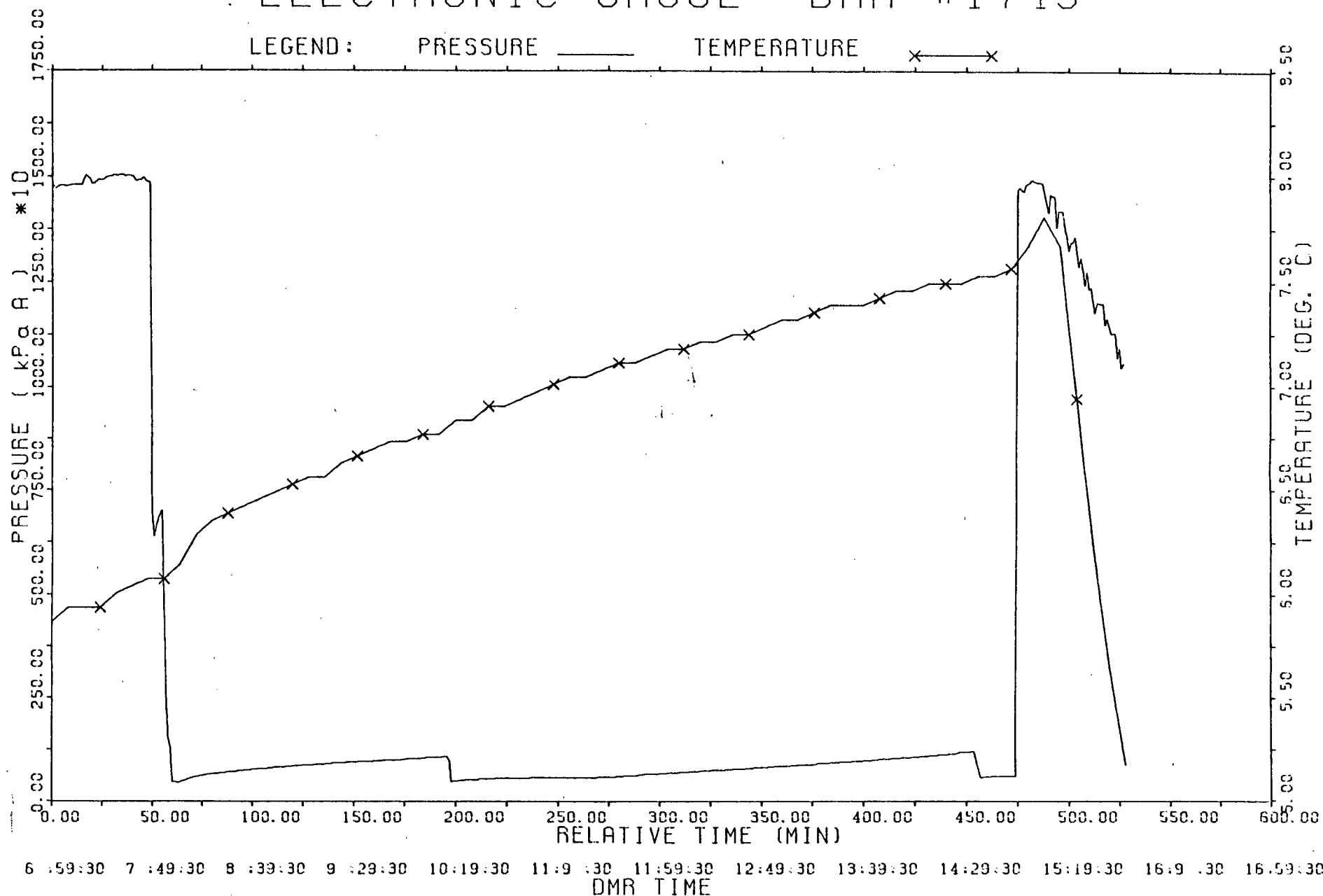
Water Loss : 14.4cc/s

Filter Cake:

Main Hole Size: 216.00mm

Temperature @1156.00m = 7.8C

PCI ET AL TWEED LAKE M-47
66.564 - 125.540 DST #3
ELECTRONIC GAUGE DMR #1749



DST#03
PCI ET AL TWEED LAKE M-47
1155.00m to 1170.00m

PRESSURE RECORDER NUMBER : 001749

DEPTH : 1156.00m
TYPE : DMRB

LOCATION : OUTSIDE
CAPACITY : 68900.00kPa(a)

PRESSURE
kPa(a)

***** TEMPERATURE AT RECORDER DEPTH = 7.8 C

- 1) Initial Hydro : 15048.
- 2) 1st Flow Start: 431.
- 3) 1st Flow End : 414.
- 4) END 1st Shutin: 1069.
- 5) 2nd Flow Start: 431.
- 6) 2nd Flow End : 442.
- 7) END 2nd Shutin: 1207.
- 8) 3rd Flow Start: 569.
- 9) 3rd Flow End : 603.
- 10) END 3rd Shutin:
- 14) Final Hydro. : 14910.

ELECTRONIC GAUGE.
PRESSURES AND
TEMPERATURE.

TEST TIMES (MIN)

- 1st FLOW : 5.
SHUTIN: 120.
2nd FLOW : 66.
SHUTIN: 120.
3rd FLOW : 15.
SHUTIN:

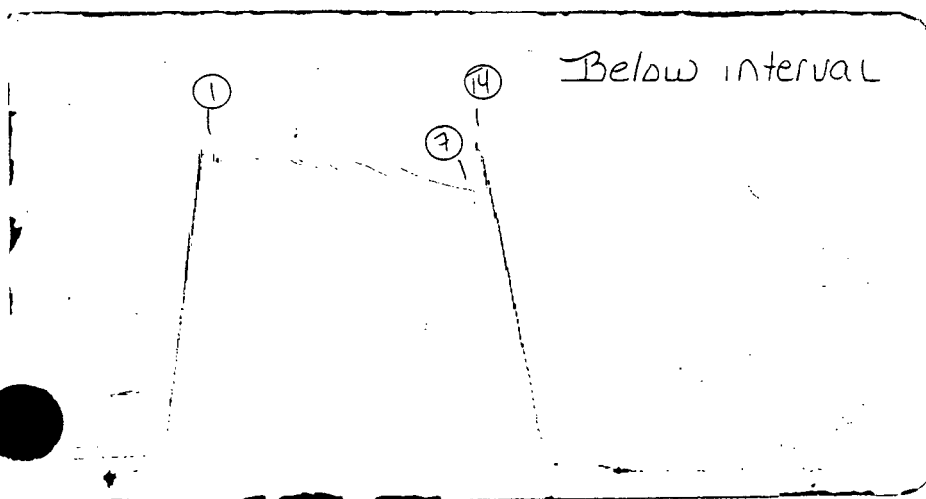
PRESSURE RECORDER NUMBER : 008887

DEPTH : 1174.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15053.
- 2) 1st Flow Start:
- 3) 1st Flow End :
- 4) END 1st Shutin:
- 5) 2nd Flow Start:
- 6) 2nd Flow End :
- 7) END 2nd Shutin: 13361.
- 14) Final Hydro. : 14907.



BELOW INTERVAL
RECORDER.

DST#03
PCI ET AL TWEED LAKE M-47
1155.00m to 1170.00m

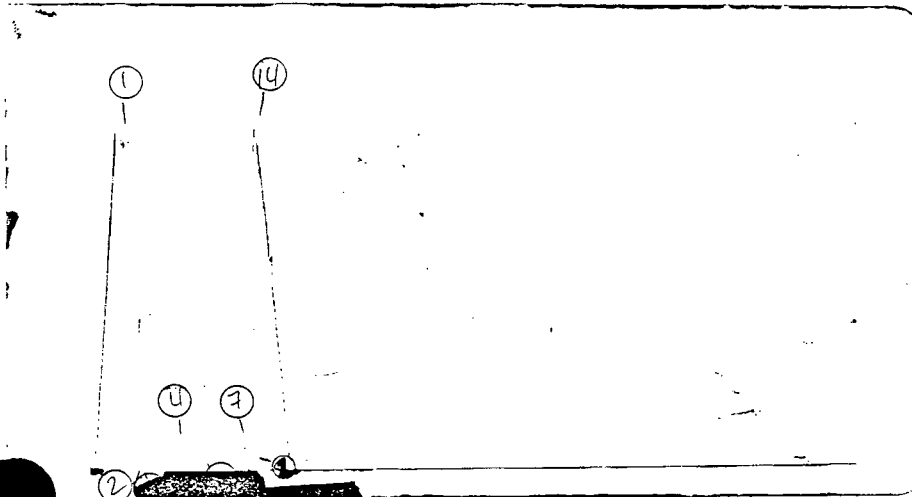
PRESSURE RECORDER NUMBER : 013480

DEPTH : 1156.00m
TYPE : K-3

LOCATION : OUTSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 14949.
- 2) 1st Flow Start: 389.
- 3) 1st Flow End : 373.
- 4) END 1st Shutin: 927.
- 5) 2nd Flow Start: 406.
- 6) 2nd Flow End : 480.
- 7) END 2nd Shutin: 1051.
- 8) 3rd Flow Start: 497.
- 9) 3rd Flow End : 488.
- 10) END 3rd Shutin:
- 14) Final Hydro. : 14760.



TEST TIMES (MIN)

- 1st FLOW : 5.
SHUTIN: 120.
2nd FLOW : 66.
SHUTIN: 120.
3rd FLOW : 15.
SHUTIN:

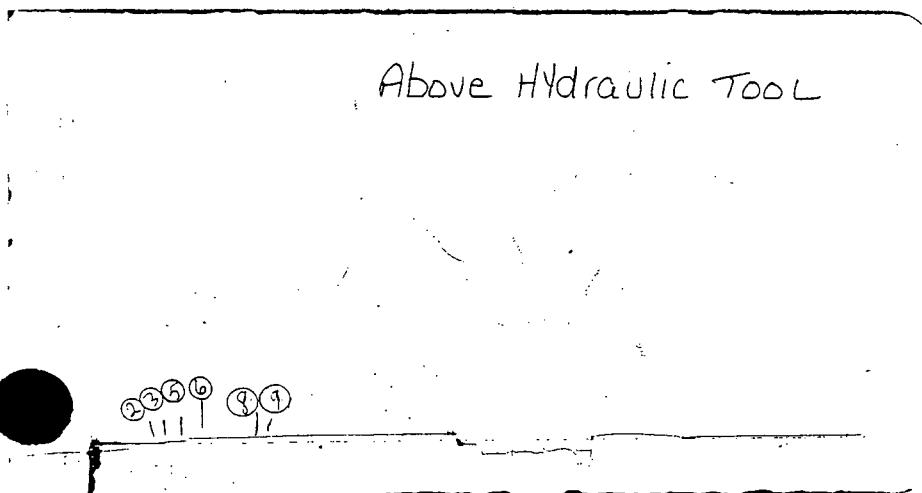
PRESSURE RECORDER NUMBER : 014103

DEPTH : 1143.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro :
- 2) 1st Flow Start: 25.
- 3) 1st Flow End : 66.
- 4) END 1st Shutin:
- 5) 2nd Flow Start: 90.
- 6) 2nd Flow End : 222.
- 7) END 2nd Shutin:
- 8) 3rd Flow Start: 255.
- 9) 3rd Flow End : 271.
- 10) END 3rd Shutin:
- 14) Final Hydro. :



ABOVE HYDRAULIC
TOOL RECORDER.

DST#03
PCI ET AL TWEED LAKE M-47
1155.00m to 1170.00m

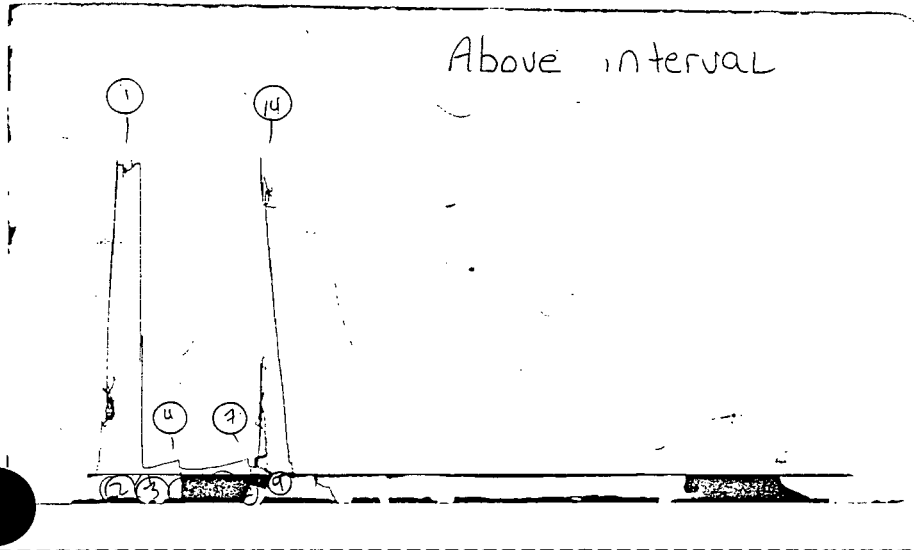
PRESSURE RECORDER NUMBER : 017737

DEPTH : 1147.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 21000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 14868.
- 2) 1st Flow Start: 443.
- 3) 1st Flow End : 425.
- 4) END 1st Shutin: 799.
- 5) 2nd Flow Start: 460.
- 6) 2nd Flow End : 391.
- 7) END 2nd Shutin: 877.
- 8) 3rd Flow Start: 573.
- 9) 3rd Flow End : 460.
- 10) END 3rd Shutin:
- 14) Final Hydro. : 14647.



ABOVE INTERVAL
RECORDER.

TEST TIMES (MIN)

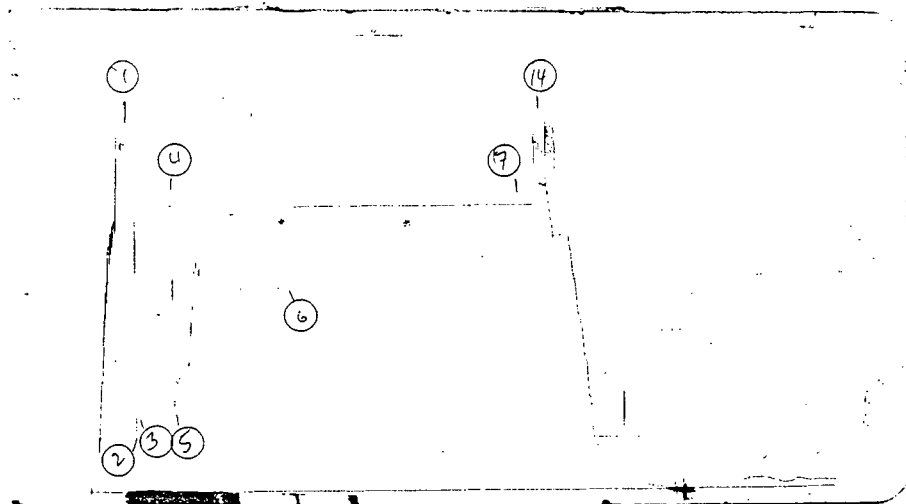
1st FLOW :	5.
SHUTIN:	120.
2nd FLOW :	66.
SHUTIN:	120.
3rd FLOW :	15.
SHUTIN:	0.

DST 4

PCI ET AL TWEED LAKE M-47
 400/ 66.564 / 125.540 /00
 DST#04
 1221.00m to 1236.00m
 MOUNT CLARK

DEPTH: 1237.00m

RECORDER # 013480

PRESSURE
kPa

- 1) Initial Hydro : 15586.
- 2) 1st Flow Start: 2689.
- 3) 1st Flow End : 3709.
- 4) END 1st Shutin: 12757.
- 5) 2nd Flow Start: 3676.
- 6) 2nd Flow End : 9125.
- 7) END 2nd Shutin: 12740.
- 14) Final Hydro. : 15586.

TEST TIMES (MIN)

- 1stFLOW : 6.
 SHUTIN: 121.
 2ndFLOW : 420.
 SHUTIN: 960.

RECOVERY DATA

TO SURFACE ON PREFLOW WITH A RATE OF 9 030.00 M3/D AND ON
 FINAL FLOW WITH A RATE OF 10 284.00 M3/D INCREASING TO 155 717.00 M3/D
 TOTAL FLUID RECOVERY CONSISTED OF 170.0 M OF CONDENSATE.

REMARKS AND TEST SUMMARY

Test results indicate a mechanically successful test. Bottom hole pressures and the shape of the shut-in curves suggest HIGH PERMEABILITY within the interval tested. DMR recorder #1749 - no final shut-in and final hydrostatic pressures available as the memory became full during the shut-in. Recorder #8887 - no final hydrostatic pressure available as the clock ran out. Recorder #14103 - no readings available as the clock stopped.

TABLE OF CONTENTS

PAGE 1	PAGE 2	PAGE 3	PAGE 4
General Data	Tool Sequence	PRESSURE	Plot Summary
Blow Description	Recorder Summary	-TIME	Reservoir Calculations
Liquid Recovery	Mud and Hole Data	LISTING	-Parameters used
Gas Measurements			-Results

***** RECORDER PAGES & FIGURES *****

Well name : PCI ET AL TWEED LAKE M-47
Location : 400/ 66.564 / 125.540 /00
Interval : 1221.00m to 1236.00m
Test Date : 85/02/19
Test Type : INFLATE STRADDLE
Formation : MOUNT CLARK

K.B.Elevation : 435.22m
Grd.Elevation : 429.10m
TD @ test Date: 1420.00m
Ticket Number : 66113
Unit Number :

Started in hole at : 1425 hrs
Tool opened at : 1731 hrs
Reverse circulated?: NO
Contractor & Rig No: ATCO #76
Lynes#4 : 1 of 1 on the same trip.

Operator: PETRO-CANADA INC.
ROOM 937 WEST
150 - 6TH AVE. S.W.
CALGARY ALBERTA
T2P3E3

Company Rep : PRICHUK M
Testers : BABYAK R

10 REPORTS(S) TO: DIANNE THEISEN
Company:

BLOW DESCRIPTION

Strong blow with gas to surface in 4 minutes on preflow.
Strong blow on final flow with gas to surface immediately and mud to surface
in 40 minutes.

TOTAL LIQUID RECOVERY : 170.00m

For DST# 4 through DST# 4
3 Fluid Samples
Sent to: CORE LABS
EDMONTON
Btm. Hole Sampler #: 221,188
Sent to: CORE LABS
EDMONTON

170.00m CONDENSATE.

GAS MEASUREMENTS Device: FLOOR MANIFOLD

Gas Measurements Continued on Next Page

Dst#04
PCI ET AL TWEED LAKE M-47
1221.00m To 1236.00m

p.1a

FLOW #	TIME MIN	CHOKE mm	READING kPa	CUBIC METRES/D
1	5.	6.35	1380.	9030.0
2	10.	6.35	1580.	10284.0
2	20.	12.70	2740.	75206.0
2	30.	12.70	3030.	83221.0
2	40.	12.70	3510.	96622.0
2	60.	19.05	2960.	188209.0
2	75.	19.05	2680.	170318.0
2	90.	19.05	2140.	136174.0
2	105.	19.05	2450.	155717.0

TOOL SEQUENCE

RECORDER SUMMARY

SUB	LENGTH (m)	
PUMP OUT SUB	.30	1) NUMBER : 001749 ELECTRONIC GAUGE.
CROSS OVER SUB	.30	TYPE : DMRB PRESSURES AND
INSIDE RECORDER	1.38	LOCATION: OUTSIDE TEMPERATURE.
HYDRAULIC TOOL	1.50	RANGE: 68900.00kPa (a)
BTM. HOLE SAMPLER	1.03	DEPTH : 1237.00m
BTM. HOLE SAMPLER	1.03	2) NUMBER : 008887 BELOW INTERVAL
INSIDE RECORDER	1.38	TYPE : K-3 RECORDER.
HYDRAULIC JARS	2.19	LOCATION: INSIDE
SAFETY JOINT	.65	RANGE: 20000.00kPa
INFLATE PUMP	2.28	DEPTH : 1240.00m
SCREEN	1.16	3) NUMBER : 013480
TOP INFLATE PACKER	1.78	TYPE : K-3
PACKER STICK DOWN	.82	LOCATION: OUTSIDE
PORTED COMB. SUB	.30	RANGE: 20000.00kPa
RECORDER CARRIER	2.06	DEPTH : 1237.00m
SPACING	1.12	4) NUMBER : 014103 ABOVE HYDRAULIC
CROSS OVER SUB	.30	TYPE : K-3 TOOL RECORDER.
DRILL COLLARS	9.60	LOCATION: INSIDE
CROSS OVER SUB	.30	RANGE: 20000.00kPa
PACKER STICK UP	.50	DEPTH : 1224.00m
BTM INFLATE PACKER	1.90	5) NUMBER : 017737 ABOVE INTERVAL
PERFORATIONS	1.50	TYPE : K-3 RECORDER.
INSIDE RECORDER	1.82	LOCATION: INSIDE
BELLY SPRING	2.00	RANGE: 21000.00kPa
		DEPTH : 1228.00m
***** TOOL TOTAL	37.20	
DRILL COLLARS		
ID= 72.0mm:	86.17	
ID= :		
DRILL PIPE		
OD=114.3mm:	1128.63	
OD= :		
COLLAR-PIPE TOTAL	1214.80	
STICK UP ABOVE TABLE :	8.78	
TOOL ABOVE INTERVAL :	14.98	
TOTAL INTERVAL :	15.00	
BOTTOM CHOKE SIZE:	25.40 mm	

MUD AND HOLE DATA

Calipered Hole Size @ Test Depth:	Water Loss : 12.2cc/s
Hole Condition at Test Time :	Filter Cake:
Hole Conditioned Prior to Test? :	
Mud Weight : 1265.0 kg/m3	Main Hole Size:
Mud Type : SALT GEL	
Viscosity : 67.0s/l	Temperature @1237.00m = 8.5C

Location: 400/ 66.564 / 125.540 /00
Test Type: INFLATE STRADDLE
Location: MOUNT CLARK

Recorder Number: 013480
Recorder Depth: 1237.00 m
Subsea Depth: -801.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa	ABSCISSA	PRESSURE SQUARED kPa $\times 10^6$
1	INITIAL HYDROSTATIC			15586		
2	START OF 1st FLOW	0.0		2689		
	1st SHUTIN PERIOD	0.0		3709		
		2.	8608	12317	4.0000	151.7085
		4.	8860	12569	2.5000	157.9798
		6.	8911	12620	2.0000	159.2644
		8.	8945	12654	1.7500	160.1237
		10.	8971	12680	1.6000	160.7824
		12.	8988	12697	1.5000*	161.2138
		14.	8997	12706	1.4286*	161.4424
		16.	9001	12710	1.3750*	161.5441
		18.	9005	12714	1.3333*	161.6458
		20.	9014	12723	1.3000*	161.8747
		25.	9022	12731	1.2400*	162.0784
		30.	9031	12740	1.2000*	162.3076
		35.	9039	12748	1.1714*	162.5115
		40.	9039	12748	1.1500*	162.5115
		45.	9039	12748	1.1333*	162.5115
		50.	9039	12748	1.1200*	162.5115
		55.	9039	12748	1.1091*	162.5115
		60.	9039	12748	1.1000*	162.5115
		65.	9039	12748	1.0923*	162.5115
		70.	9043	12752	1.0857*	162.6135
		75.	9043	12752	1.0800*	162.6135
		80.	9043	12752	1.0750*	162.6135
		85.	9043	12752	1.0706*	162.6135
		90.	9043	12752	1.0667*	162.6135
		95.	9048	12757	1.0632*	162.7411
		100.	9048	12757	1.0600*	162.7411
		105.	9048	12757	1.0571*	162.7411
		110.	9048	12757	1.0545*	162.7411
		115.	9048	12757	1.0522*	162.7411
4	END OF 1st SHUTIN	121.	9048	12757	1.0496*	162.7411

* VALUES USED FOR EXTRAPOLATIONS

Location: 400/ 66.564 / 125.540 /00
Type: INFLATE STRADDLE
Location: MOUNT CLARK

Recorder Number: 013480
Recorder Depth: 1237.00 m
Subsea Depth: -801.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa	ABSCISSA	PRESSURE SQUARED kPa ² /10 ⁶
5	START OF 2nd FLOW	0.0		3676		
	2nd SHUTIN PERIOD	0.0		9125		
		2.	3308	12433	214.0000	154.5795
		4.	3401	12526	107.5000	156.9007
		6.	3469	12594	72.0000	158.6089
		8.	3495	12620	54.2500	159.2644
		10.	3503	12628	43.6000	159.4664
		12.	3521	12646	36.5000	159.9213
		14.	3529	12654	31.4286	160.1237
		16.	3538	12663	27.6250	160.3516
		18.	3546	12671	24.6667	160.5543
		20.	3551	12676	22.3000	160.6810
		25.	3555	12680	18.0400	160.7824
		30.	3572	12697	15.2000	161.2138
		35.	3581	12706	13.1714	161.4424
		40.	3585	12710	11.6500*	161.5441
		45.	3589	12714	10.4667*	161.6458
		50.	3593	12718	9.5200*	161.7475
		55.	3593	12718	8.7455*	161.7475
		60.	3593	12718	8.1000*	161.7475
		65.	3598	12723	7.5538*	161.8747
		70.	3598	12723	7.0857*	161.8747
		75.	3606	12731	6.6800*	162.0784
		80.	3606	12731	6.3250*	162.0784
		85.	3606	12731	6.0118*	162.0784
		90.	3606	12731	5.7333*	162.0784
		95.	3606	12731	5.4842*	162.0784
		100.	3606	12731	5.2600*	162.0784
		105.	3610	12735	5.0571*	162.1802
		110.	3610	12735	4.8727*	162.1802
		120.	3615	12740	4.5500*	162.3076
		130.	3615	12740	4.2769*	162.3076
		140.	3615	12740	4.0429*	162.3076
		150.	3615	12740	3.8400*	162.3076

* VALUES USED FOR EXTRAPOLATIONS

Location: 400/ 66.564 / 125.540 /00
Test Type: INFLATE STRADDLE
Location: MOUNT CLARK

Recorder Number: 013480
Recorder Depth: 1237.00 m
Subsea Depth: -801.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa	ABSCISSA	PRESSURE SQUARED kPa ² /10 ⁶
		160.	3615	12740	3.6625*	162.3076
		170.	3615	12740	3.5059*	162.3076
		180.	3615	12740	3.3667*	162.3076
		200.	3615	12740	3.1300*	162.3076
		220.	3615	12740	2.9364*	162.3076
		240.	3615	12740	2.7750*	162.3076
		260.	3615	12740	2.6385*	162.3076
		280.	3615	12740	2.5214*	162.3076
		300.	3615	12740	2.4200*	162.3076
		320.	3615	12740	2.3313*	162.3076
		360.	3615	12740	2.1833*	162.3076
		400.	3615	12740	2.0650*	162.3076
		440.	3615	12740	1.9682*	162.3076
		480.	3615	12740	1.8875*	162.3076
		520.	3615	12740	1.8192*	162.3076
		560.	3615	12740	1.7607*	162.3076
		600.	3615	12740	1.7100*	162.3076
		640.	3615	12740	1.6656*	162.3076
		680.	3615	12740	1.6265*	162.3076
		720.	3615	12740	1.5917*	162.3076
		760.	3615	12740	1.5605*	162.3076
		800.	3615	12740	1.5325*	162.3076
		840.	3615	12740	1.5071*	162.3076
		880.	3615	12740	1.4841*	162.3076
		920.	3615	12740	1.4630*	162.3076
7	END OF 2nd SHUTIN	960.	3615	12740	1.4437*	162.3076
14	FINAL HYDROSTATIC			15586		

* VALUES USED FOR EXTRAPOLATIONS

PCI ET AL TWEED LAKE M-47
1221.00 m to 1236.00 m

Location: 400/ 66.564 / 125.540 /00
Type: INFLATE STRADDLE
ation: MOUNT CLARK

Recorder Number: 013480
Recorder Depth: 1237.00 m
Subsea Depth: -801.78 m

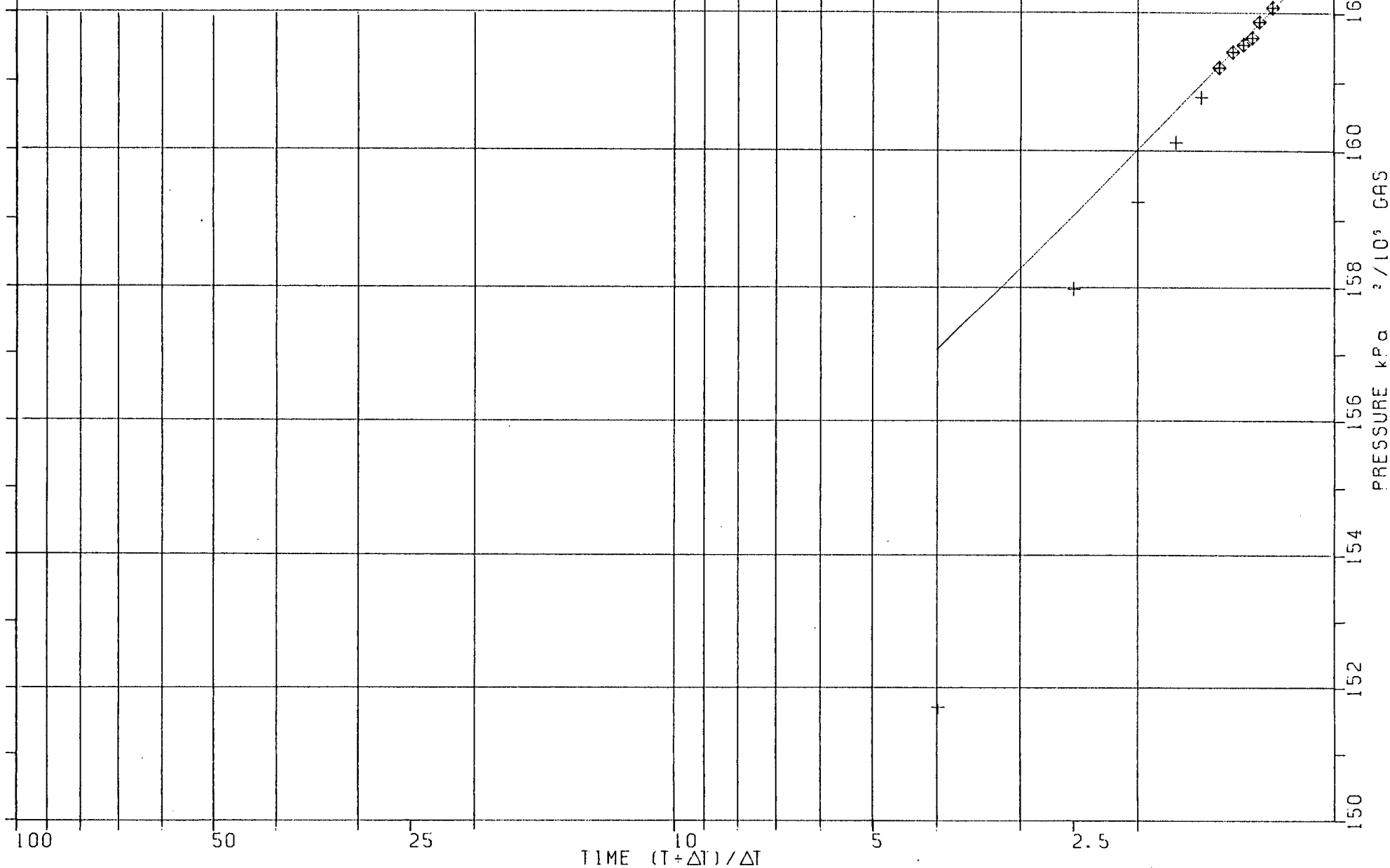
1st SHUT-IN

HORNER EXTRAPOLATION 12766.10 kPa
HORNER SLOPE 9.83178 (kPa**2/10**6)/CYCLE

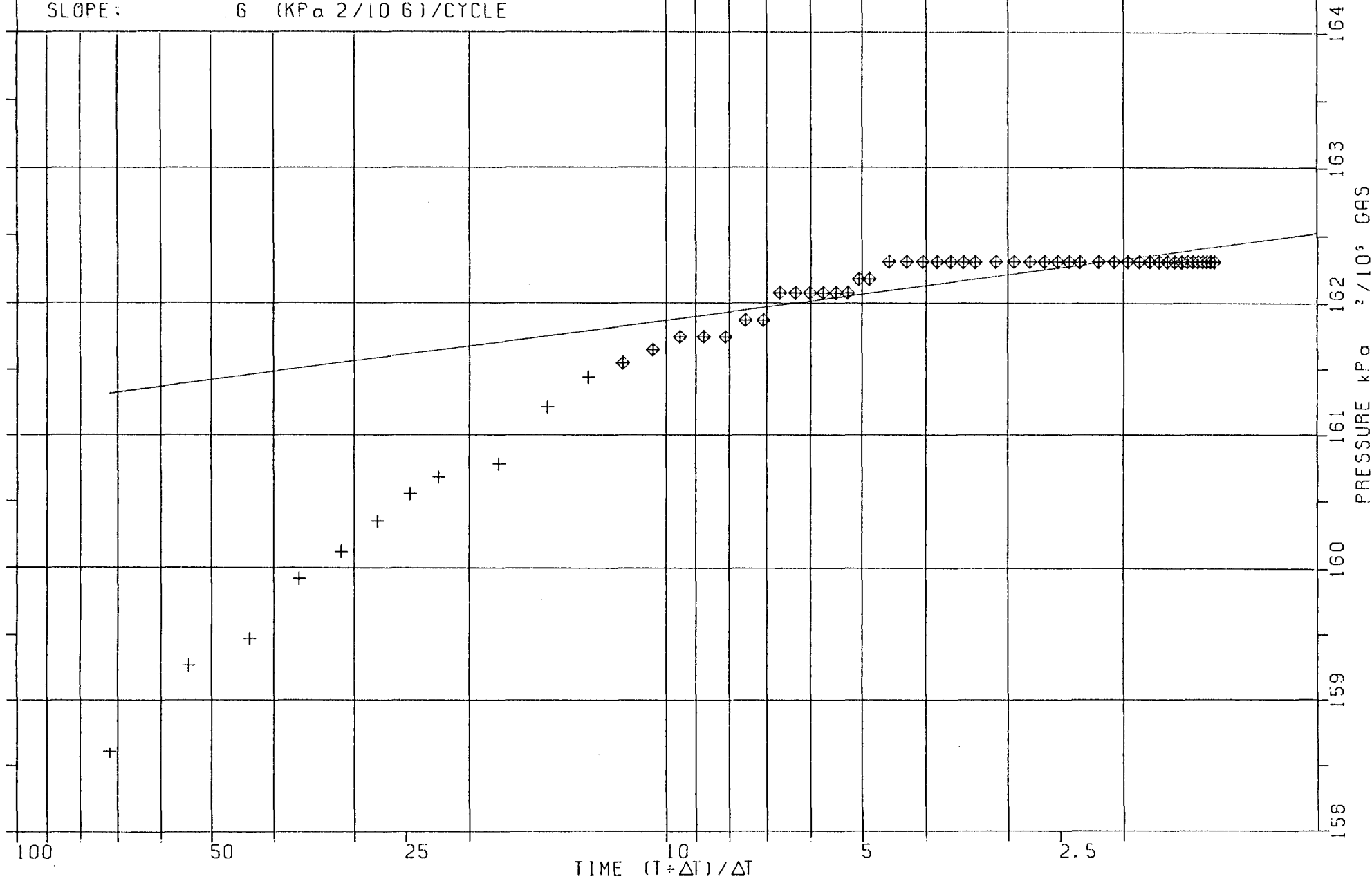
2nd SHUT-IN

HORNER EXTRAPOLATION 12748.38 kPa
HORNER SLOPE .64999 (kPa**2/10**6)/CYCLE

WELL NAME: PCI ET AL TWEED LAKE M-47
DST-NO: 004 REC-NO: 013480 SHUT-IN: 1
EXTRAPOLATED PRESSURE: 12766.1 kPa
SLOPE: 9.8 (kPa 2/10 G)/CYCLE



WELL NAME: PCI ET AL TWEED LAKE M-47
DST-NO: 004 REC-NO: 013480 SHUT-IN: 2
EXTRAPOLATED PRESSURE: 12748.4 kPa
SLOPE: 6 (kPa 2/10 G)/CYCLE



ET AL TWEED LAKE M-47
66.564 / 125.540

REC#013480
DST#004

SHUTIN # 1 +
2 Δ

10000

1000

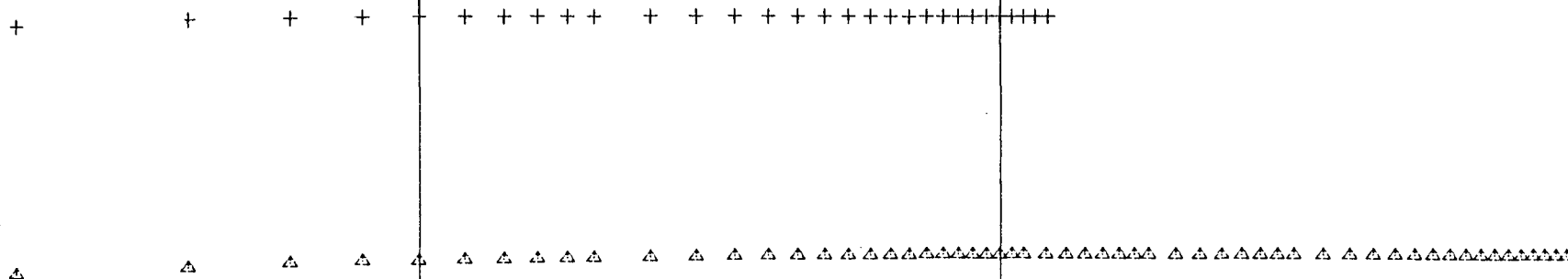
DELTA kPa.

10

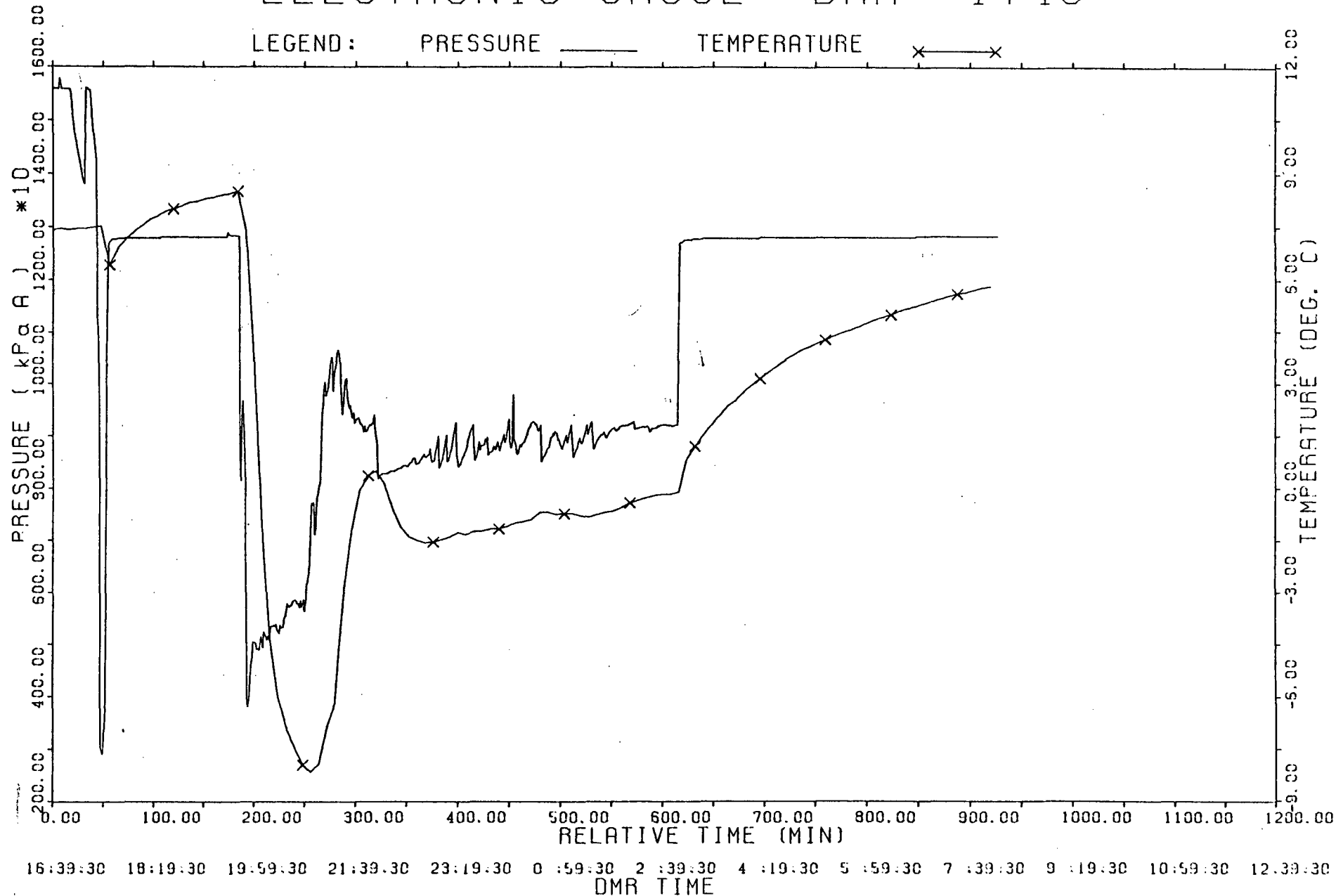
DELTA MINUTES

100

1000



PCI ET AL TWEED LAKE M-47
 66.564 - 125.540 DST #4
 ELECTRONIC GAUGE DMR #1749



DST#04
PCI ET AL TWEED LAKE M-47
1221.00m to 1236.00m

PRESSURE RECORDER NUMBER : 001749

DEPTH : 1237.00m
TYPE : DMRB

LOCATION : OUTSIDE
CAPACITY : 68900.00kPa(a)

PRESSURE
kPa(a)

***** TEMPERATURE AT RECORDER DEPTH = 8.5 C

- 1) Initial Hydro : 15582.
- 2) 1st Flow Start: 3051.
- 3) 1st Flow End : 3861.
- 4) END 1st Shutin: 12841.
- 5) 2nd Flow Start: 3999.
- 6) 2nd Flow End : 9239.
- 7) END 2nd Shutin:
- 14) Final Hydro. :

ELECTRONIC GAUGE.
PRESSURES AND
TEMPERATURE.

TEST TIMES (MIN)

1st FLOW : 6.
SHUTIN: 121.
2nd FLOW : 420.
SHUTIN: 960.

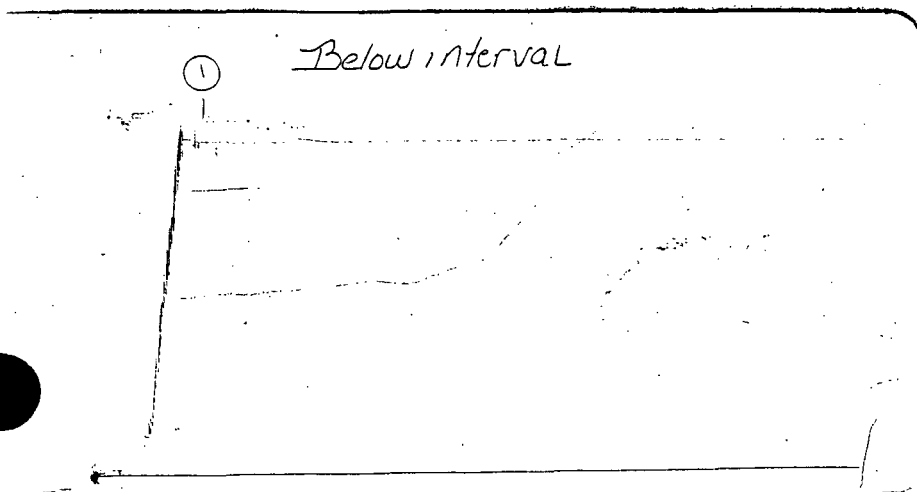
PRESSURE RECORDER NUMBER : 008887

DEPTH : 1240.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15749.
- 14) Final Hydro. :



BELOW INTERVAL
RECORDER.

DST#04
PCI ET AL TWEED LAKE M-47
1221.00m to 1236.00m

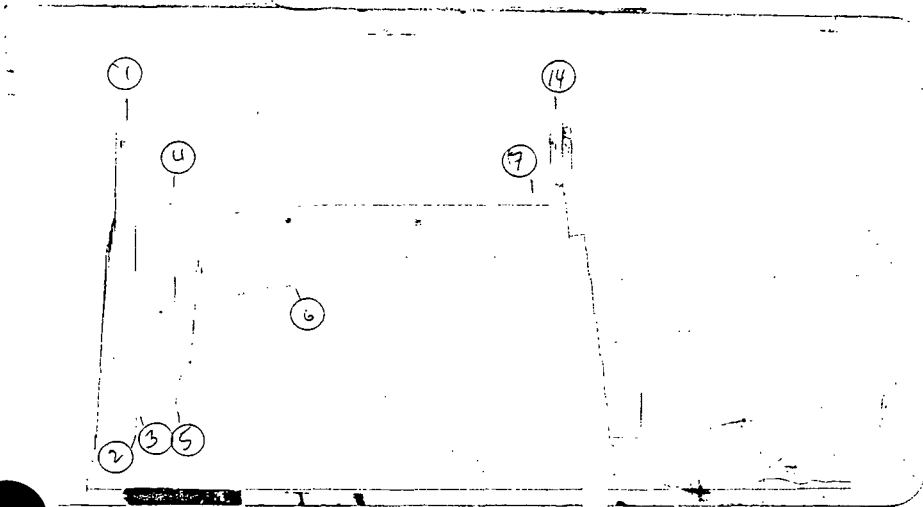
PRESSURE RECORDER NUMBER : 013480

DEPTH : 1237.00m
TYPE : K-3

LOCATION : OUTSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15586.
- 2) 1st Flow Start: 2689.
- 3) 1st Flow End : 3709.
- 4) END 1st Shutin: 12757.
- 5) 2nd Flow Start: 3676.
- 6) 2nd Flow End : 9125.
- 7) END 2nd Shutin: 12740.
- 14) Final Hydro. : 15586.



TEST TIMES (MIN)
1st FLOW : 6.
SHUTIN: 121.
2nd FLOW : 420.
SHUTIN: 960.

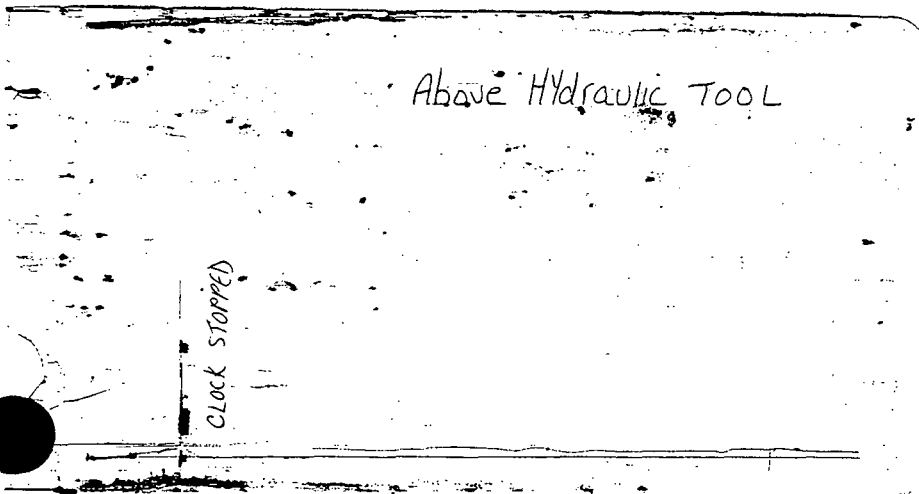
PRESSURE RECORDER NUMBER : 014103

DEPTH : 1224.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro :
- 14) Final Hydro. :



ABOVE HYDRAULIC
TOOL RECORDER.

DST#04
PCI ET AL TWEED LAKE M-47
1221.00m to 1236.00m

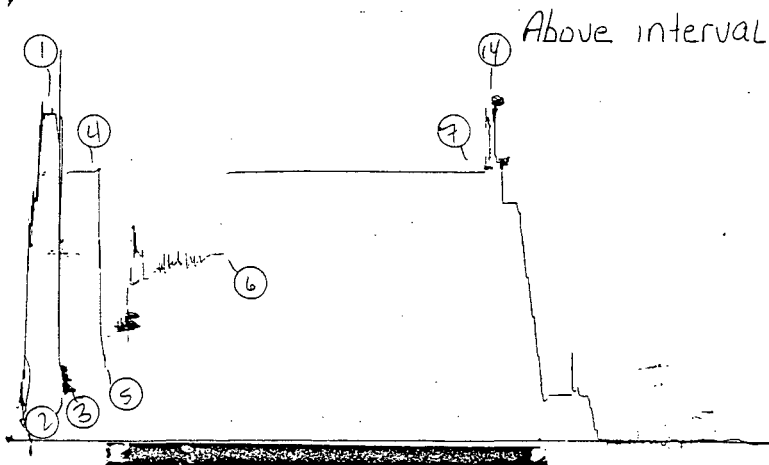
PRESSURE RECORDER NUMBER : 017737

DEPTH : 1228.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 21000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15424.
- 2) 1st Flow Start: 3518.
- 3) 1st Flow End : 3213.
- 4) END 1st Shutin: 12716.
- 5) 2nd Flow Start: 3711.
- 6) 2nd Flow End : 8774.
- 7) END 2nd Shutin: 12681.
- 14) Final Hydro. : 15301.



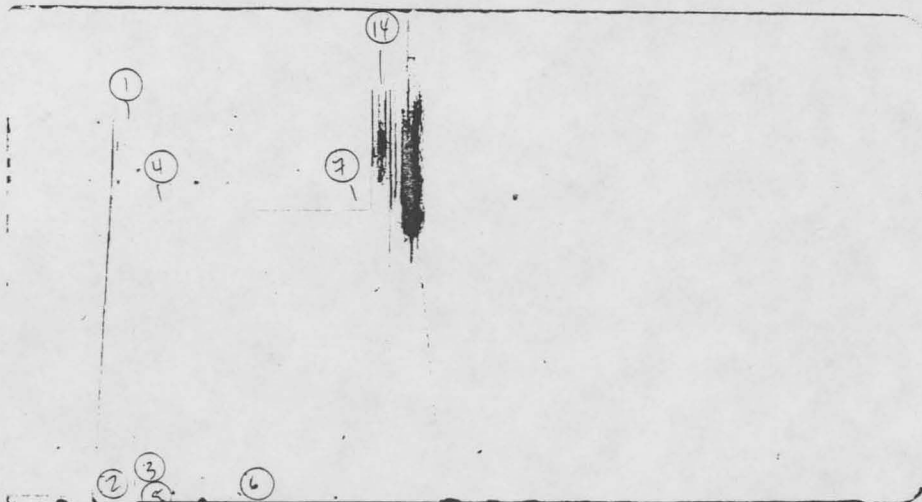
ABOVE INTERVAL
RECORDER.

TEST TIMES (MIN)
1st FLOW : 6.
SHUTIN: 121.
2nd FLOW : 420.
SHUTIN: 960.

DST 5

PCI ET AL TWEED LAKE M-47
400/ 66.564 / 125.540 /00
DST#05
1209.00m to 1216.50m
MOUNT CLARK

DEPTH: 1212.00m



PRESSURE
kPa(a)

- 1) Initial Hydro : 15513.
- 2) 1st Flow Start: 465.
- 3) 1st Flow End : 552.
- 4) END 1st Shutin: 12790.
- 5) 2nd Flow Start: 552.
- 6) 2nd Flow End : 758.
- 7) END 2nd Shutin: 12790.
- 14) Final Hydro. : 15427.

TEST TIMES(MIN)

- 1stFLOW : 3.
SHUTIN: 121.
2ndFLOW : 236.
SHUTIN: 486.

RECOVERY DATA

TO SURFACE WITH AN OPENING RATE OF 4 897.00 M3/D FLUCTUATING AND CLOSING
846.00 M3/D. TOTAL FLUID RECOVERY CONSISTS OF 35.00 METERS OF GAS CUT MUD.

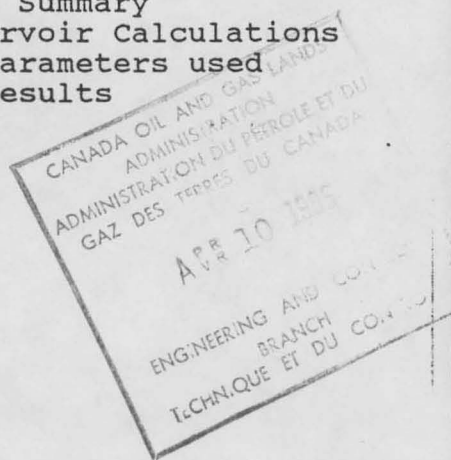
REMARKS AND TEST SUMMARY

Test results indicate a mechanically successful test. Bottom hole pressures and the shape of the shut-in curves suggest AVERAGE PERMEABILITY within the interval tested. Recorder #13480 - no readings available as the clock stopped.

TABLE OF CONTENTS

PAGE 1	PAGE 2	PAGE 3	PAGE 4
General Data	Tool Sequence	PRESSURE	Plot Summary
Blow Description	Recorder Summary	-TIME	Reservoir Calculations
Liquid Recovery	Mud and Hole Data	LISTING	-Parameters used
Gas Measurements			-Results

***** RECORDER PAGES & FIGURES *****



Well name : PCI ET AL TWEED LAKE M-47
Location : 400/ 66.564 / 125.540 /00
Interval : 1209.00m to 1216.50m
Test Date : 85/02/21
Test Type : INFLATE STRADDLE
Formation : MOUNT CLARK

K.B.Elevation : 435.22m
Grd.Elevation : 429.10m
TD @ test Date: 1420.00m
Ticket Number : 66114
Unit Number :

Started in hole at : 1440 hrs
Tool opened at : 1731 hrs
Reverse circulated?: NO
Contractor & Rig No: ATCO #76
Lynes#5 : 1 of 1 on the same trip.

Operator: PETRO-CANADA INC.
ROOM 937 WEST
150 - 6TH AVE. S.W.
CALGARY ALBERTA
T2P3E3

Company Rep : PRICHUK M
Testers : BABYAK R

10 REPORTS(S) TO: DIANNE THEISEN
Company:

BLOW DESCRIPTION

Weak air blow increasing to strong on preflow. No gas to surface.
Strong blow on final flow. Gas to surface in 3 minutes - too small to
measure after 177 minutes.

TOTAL LIQUID RECOVERY : 35.00m

For DST# 5 through DST# 5
2 Fluid Samples
Sent to: CORE LABS
EDMONTON
Btm. Hole Sampler #: 100,235
Sent to: CORE LABS
EDMONTON

35.00m GAS CUT MUD.

GAS MEASUREMENTS Device: FLOOR MANIFOLD

Gas Measurements Continued on Next Page

Dst#05
PCI ET AL TWEED LAKE M-47
1209.00m To 1216.50m

p.1a

FLOW #	TIME MIN	CHOKE mm	READING kPa	CUBIC METRES/D
2	7.	9.52	260.	4897.0
2	17.	9.52	250.	4756.0
2	27.	9.52	200.	4054.0
2	37.	9.52	150.	3353.0
2	47.	9.52	110.	2793.0
2	57.	9.52	80.	2373.0
2	67.	3.18	100.	271.0
2	77.	3.18	115.	290.0
2	87.	3.18	160.	357.0
2	97.	3.18	200.	414.0
2	107.	3.18	240.	472.0
2	117.	3.18	265.	508.0
2	127.	3.18	295.	550.0
2	137.	3.18	320.	586.0
2	147.	6.35	300.	2364.0
2	157.	6.35	170.	1574.0
2	167.	6.35	90.	1088.0
2	177.	6.35	50.	846.0

TOOL SEQUENCE

RECORDER SUMMARY

SUB	LENGTH (m)
PUMP OUT SUB	.30
CROSS OVER SUB	.30
INSIDE RECORDER	1.38
HYDRAULIC TOOL	1.50
BTM. HOLE SAMPLER	1.03
BTM. HOLE SAMPLER	1.03
INSIDE RECORDER	1.38
HYDRAULIC JARS	2.19
SAFETY JOINT	.65
INFLATE PUMP	2.28
SCREEN	1.16
TOP INFLATE PACKER	1.78
PACKER STICK DOWN	.82
PORTED COMB. SUB	.30
RECORDER CARRIER	2.06
SPACING	3.82
PACKER STICK UP	.50
BTM.INFLATE PACKER	1.90
PERFORATIONS	1.52
BELLY SPRING	2.00

1) NUMBER : 001749	ELECTRONIC GAUGE.
TYPE : DMRB	PRESSURES AND
LOCATION: OUTSIDE	TEMPERATURE.
RANGE: 68900.00kPa (a)	
DEPTH : 1212.00m	
2) NUMBER : 008887	BELOW INTERVAL
TYPE : K-3	RECORDER.
LOCATION: INSIDE	
RANGE: 20000.00kPa	
DEPTH : 1217.00m	
3) NUMBER : 013480	ABOVE HYDRAULIC
TYPE : K-3	TOOL. CLOCK
LOCATION: INSIDE	STOPPED.
RANGE: 20000.00kPa	
DEPTH : 1200.00m	
4) NUMBER : 014103	
TYPE : K-3	
LOCATION: OUTSIDE	
RANGE: 20000.00kPa	
DEPTH : 1212.00m	
5) NUMBER : 017733	ABOVE INTERVAL
TYPE : K-3	RECORDER.
LOCATION: INSIDE	
RANGE: 21000.00kPa	
DEPTH : 1204.00m	

***** TOOL TOTAL 27.90

DRILL COLLARS

ID= 72.0mm: 96.14

ID= :

DRILL PIPE

OD=114.3mm: 1108.88

OD= :

COLLAR-PIPE TOTAL 1205.02

STICK UP ABOVE TABLE : 11.00

TOOL ABOVE INTERVAL : 14.98

TOTAL INTERVAL : 7.50

BOTTOM CHOKE SIZE: 25.40 mm

MUD AND HOLE DATA

Calipered Hole Size @ Test Depth:

Hole Condition at Test Time :

Hole Conditioned Prior to Test? :

Mud Weight : 1265.0 kg/m3

Mud Type : SALT GEL

Viscosity : 67.0s/l

Water Loss : 12.6cc/s

Filter Cake:

Main Hole Size: 216.00mm

Temperature @1212.00m = 8.2C

Location: 400/ 66.564 / 125.540 /00
Test Type: INFLATE STRADDLE
Location: MOUNT CLARK

Recorder Number: 001749
Recorder Depth: 1212.00 m
Subsea Depth: -776.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa(a)	ABSCISSA	PRESSURE SQUARED kPa(a) ^2/10^6
1	INITIAL HYDROSTATIC			15513		
2	START OF 1st FLOW	0.0		465		
		1.		517		
		2.		534		
3	END OF 1st FLOW	3.		552		
	1st SHUTIN PERIOD	0.0		552		
		4.	6878	7429	1.7500	55.1915
		7.	9273	9825	1.4286	96.5312
		11.	10825	11376	1.2727	129.4202
		14.	11359	11911	1.2143	141.8624
		17.	11704	12255	1.1765	150.1949
		21.	11945	12497	1.1429	156.1675
		24.	12049	12600	1.1250	158.7625
		28.	12118	12669	1.1071	160.5061
		31.	12152	12704	1.0968	161.3789
		35.	12186	12738	1.0857*	162.2567
		38.	12186	12738	1.0789*	162.2567
		41.	12204	12755	1.0732*	162.6977
		45.	12221	12773	1.0667*	163.1368
		48.	12221	12773	1.0625*	163.1368
		52.	12221	12773	1.0577*	163.1368
		55.	12221	12773	1.0545*	163.1368
		59.	12221	12773	1.0508*	163.1368
		62.	12221	12773	1.0484*	163.1368
		65.	12221	12773	1.0462*	163.1368
		69.	12221	12773	1.0435*	163.1368
		72.	12238	12790	1.0417*	163.5764
		76.	12238	12790	1.0395*	163.5764
		79.	12238	12790	1.0380*	163.5764
		83.	12238	12790	1.0361*	163.5764
		86.	12238	12790	1.0349*	163.5764
		89.	12238	12790	1.0337*	163.5764

* VALUES USED FOR EXTRAPOLATIONS

Location: 400/ 66.564 / 125.540 /00
Type: INFLATE STRADDLE
ation: MOUNT CLARK

Recorder Number: 001749
Recorder Depth: 1212.00 m
Subsea Depth: -776.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa(a)	ABSCISSA	PRESSURE SQUARED kPa(a) ^2/10^6
		93.	12238	12790	1.0323*	163.5764
		96.	12238	12790	1.0313*	163.5764
		100.	12238	12790	1.0300*	163.5764
		103.	12238	12790	1.0291*	163.5764
		107.	12238	12790	1.0280*	163.5764
		110.	12238	12790	1.0273*	163.5764
		113.	12238	12790	1.0265*	163.5764
		117.	12238	12790	1.0256*	163.5764
		120.	12238	12790	1.0250*	163.5764
4	END OF 1st SHUTIN	121.	12238	12790	1.0248*	163.5764
5	START OF 2nd FLOW	0.0		552		
		4.		655		
		9.		758		
		13.		776		
		18.		810		
		23.		845		
		27.		810		
		32.		793		
		36.		758		
		41.		741		
		45.		707		
		50.		707		
		55.		689		
		59.		672		
		64.		672		
		68.		689		
		73.		689		
		77.		707		
		82.		707		
		87.		741		
		91.		741		
		96.		776		
		100.		793		
		105.		827		

* VALUES USED FOR EXTRAPOLATIONS

Location: 400/ 66.564 / 125.540 /00
Type: INFLATE STRADDLE
Location: MOUNT CLARK

Recorder Number: 001749
Recorder Depth: 1212.00 m
Subsea Depth: -776.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa(a)	ABSCISSA	PRESSURE SQUARED kPa(a) ^2/10^6
		109.		845		
		114.		862		
		119.		879		
		123.		896		
		128.		914		
		132.		948		
		137.		948		
		141.		948		
		146.		983		
		151.		1000		
		155.		1000		
		160.		1017		
		164.		1034		
		169.		965		
		173.		896		
		178.		845		
		183.		793		
		187.		776		
		192.		741		
		196.		724		
		201.		724		
		205.		707		
		210.		707		
		215.		724		
		219.		707		
		224.		707		
		228.		724		
		233.		741		
6	END OF 2nd FLOW	236.		758		
	2nd SHUTIN PERIOD	0.0		758		
		4.	3430	4189	60.7500	17.5440
		7.	5206	5964	35.1429	35.5688
		11.	7015	7774	22.7273	60.4326
		14.	8188	8946	18.0714	80.0300

* VALUES USED FOR EXTRAPOLATIONS

DST#05
PCI ET AL TWEED LAKE M-47
1209.00 m to 1216.50 m

p.3c

Location: 400/ 66.564 / 125.540 /00
Test Type: INFLATE STRADDLE
Station: MOUNT CLARK

Recorder Number: 001749
Recorder Depth: 1212.00 m
Subsea Depth: -776.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE (T+dt)/dt kPa (a)	ABSCISSA	PRESSURE SQUARED kPa (a) ² /10 ⁶
		17.	9532	10290	15.0588	105.8923
		21.	11014	11773	12.3810	138.5989
		24.	11531	12290	10.9583	151.0417
		28.	11807	12566	9.5357	157.8968
		31.	11876	12635	8.7097	159.6331
		35.	11928	12686	7.8286	160.9423
		38.	11945	12704	7.2895	161.3789
		41.	11962	12721	6.8293	161.8188
		45.	11980	12738	6.3111	162.2567
		48.	11980	12738	5.9792	162.2567
		52.	11980	12738	5.5962	162.2567
		55.	11997	12755	5.3455	162.6977
		59.	11997	12755	5.0508	162.6977
		62.	11997	12755	4.8548	162.6977
		65.	11997	12755	4.6769	162.6977
		69.	12014	12773	4.4638	163.1368
		72.	12014	12773	4.3194	163.1368
		76.	12014	12773	4.1447	163.1368
		79.	12014	12773	4.0253	163.1368
		83.	12014	12773	3.8795	163.1368
		86.	12014	12773	3.7791	163.1368
		89.	12014	12773	3.6854	163.1368
		93.	12014	12773	3.5699	163.1368
		96.	12014	12773	3.4896	163.1368
		100.	12014	12773	3.3900	163.1368
		103.	12014	12773	3.3204	163.1368
		107.	12014	12773	3.2336	163.1368
		110.	12014	12773	3.1727	163.1368
		113.	12014	12773	3.1150	163.1368
		117.	12014	12773	3.0427	163.1368
		120.	12014	12773	2.9917	163.1368
		124.	12014	12773	2.9274	163.1368
		127.	12014	12773	2.8819	163.1368
		131.	12014	12773	2.8244	163.1368
		134.	12014	12773	2.7836	163.1368
		137.	12014	12773	2.7445	163.1368

* VALUES USED FOR EXTRAPOLATIONS

Location: 400/ 66.564 / 125.540 /00
Test Type: INFLATE STRADDLE
Station: MOUNT CLARK

Recorder Number: 001749
Recorder Depth: 1212.00 m
Subsea Depth: -776.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa(a)	ABSCISSA	PRESSURE SQUARED kPa(a)^2/10^6
		141.	12014	12773	2.6950	163.1368
		144.	12014	12773	2.6597	163.1368
		148.	12014	12773	2.6149	163.1368
		151.	12014	12773	2.5828*	163.1368
		155.	12014	12773	2.5419*	163.1368
		158.	12014	12773	2.5127*	163.1368
		161.	12014	12773	2.4845*	163.1368
		165.	12014	12773	2.4485*	163.1368
		168.	12014	12773	2.4226*	163.1368
		172.	12014	12773	2.3895*	163.1368
		175.	12014	12773	2.3657*	163.1368
		179.	12014	12773	2.3352*	163.1368
		182.	12014	12773	2.3132*	163.1368
		185.	12014	12773	2.2919*	163.1368
		189.	12014	12773	2.2646*	163.1368
		192.	12014	12773	2.2448*	163.1368
		196.	12031	12790	2.2194*	163.5764
		199.	12031	12790	2.2010*	163.5764
		203.	12031	12790	2.1773*	163.5764
		206.	12031	12790	2.1602*	163.5764
		209.	12031	12790	2.1435*	163.5764
		213.	12031	12790	2.1221*	163.5764
		216.	12031	12790	2.1065*	163.5764
		220.	12031	12790	2.0864*	163.5764
		223.	12031	12790	2.0717*	163.5764
		227.	12031	12790	2.0529*	163.5764
		230.	12031	12790	2.0391*	163.5764
		233.	12031	12790	2.0258*	163.5764
		237.	12031	12790	2.0084*	163.5764
		240.	12031	12790	1.9958*	163.5764
		244.	12031	12790	1.9795*	163.5764
		247.	12031	12790	1.9676*	163.5764
		251.	12031	12790	1.9522*	163.5764
		254.	12031	12790	1.9409*	163.5764
		257.	12031	12790	1.9300*	163.5764
		261.	12031	12790	1.9157*	163.5764

* VALUES USED FOR EXTRAPOLATIONS

Location: 400/ 66.564 / 125.540 /00
Type: INFLATE STRADDLE
Location: MOUNT CLARK

Recorder Number: 001749
Recorder Depth: 1212.00 m
Subsea Depth: -776.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa(a)	ABSCISSA	PRESSURE SQUARED kPa(a)^2/10^6
		264.	12031	12790	1.9053*	163.5764
		268.	12031	12790	1.8918*	163.5764
		271.	12031	12790	1.8819*	163.5764
		275.	12031	12790	1.8691*	163.5764
		278.	12031	12790	1.8597*	163.5764
		281.	12031	12790	1.8505*	163.5764
		285.	12031	12790	1.8386*	163.5764
		288.	12031	12790	1.8299*	163.5764
		292.	12031	12790	1.8185*	163.5764
		295.	12031	12790	1.8102*	163.5764
		299.	12031	12790	1.7993*	163.5764
		302.	12031	12790	1.7914*	163.5764
		305.	12031	12790	1.7836*	163.5764
		309.	12031	12790	1.7735*	163.5764
		312.	12031	12790	1.7660*	163.5764
		316.	12031	12790	1.7563*	163.5764
		319.	12031	12790	1.7492*	163.5764
		323.	12031	12790	1.7399*	163.5764
		326.	12031	12790	1.7331*	163.5764
		329.	12031	12790	1.7264*	163.5764
		333.	12031	12790	1.7177*	163.5764
		336.	12031	12790	1.7113*	163.5764
		340.	12031	12790	1.7029*	163.5764
		343.	12031	12790	1.6968*	163.5764
		347.	12031	12790	1.6888*	163.5764
		350.	12031	12790	1.6829*	163.5764
		353.	12031	12790	1.6771*	163.5764
		357.	12031	12790	1.6695*	163.5764
		360.	12031	12790	1.6639*	163.5764
		364.	12031	12790	1.6566*	163.5764
		367.	12031	12790	1.6512*	163.5764
		371.	12031	12790	1.6442*	163.5764
		374.	12031	12790	1.6390*	163.5764
		377.	12031	12790	1.6340*	163.5764
		381.	12031	12790	1.6273*	163.5764
		384.	12031	12790	1.6224*	163.5764

* VALUES USED FOR EXTRAPOLATIONS

Location: 400/ 66.564 / 125.540 /00
Test Type: INFLATE STRADDLE
Station: MOUNT CLARK

Recorder Number: 001749
Recorder Depth: 1212.00 m
Subsea Depth: -776.78 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa(a)	ABSCISSA	PRESSURE SQUARED kPa(a) ² /10 ⁶
		388.	12031	12790	1.6160*	163.5764
		391.	12031	12790	1.6113*	163.5764
		395.	12031	12790	1.6051*	163.5764
		398.	12031	12790	1.6005*	163.5764
		401.	12031	12790	1.5960*	163.5764
		405.	12031	12790	1.5901*	163.5764
		408.	12031	12790	1.5858*	163.5764
		412.	12031	12790	1.5801*	163.5764
		415.	12031	12790	1.5759*	163.5764
		419.	12031	12790	1.5704*	163.5764
		422.	12031	12790	1.5664*	163.5764
		425.	12031	12790	1.5624*	163.5764
		429.	12031	12790	1.5571*	163.5764
		432.	12031	12790	1.5532*	163.5764
		436.	12031	12790	1.5482*	163.5764
		439.	12031	12790	1.5444*	163.5764
		443.	12031	12790	1.5395*	163.5764
		446.	12031	12790	1.5359*	163.5764
		449.	12031	12790	1.5323*	163.5764
		453.	12031	12790	1.5276*	163.5764
		456.	12031	12790	1.5241*	163.5764
		460.	12031	12790	1.5196*	163.5764
		463.	12031	12790	1.5162*	163.5764
		467.	12031	12790	1.5118*	163.5764
		470.	12031	12790	1.5085*	163.5764
		473.	12031	12790	1.5053*	163.5764
		477.	12031	12790	1.5010*	163.5764
		480.	12031	12790	1.4979*	163.5764
		484.	12031	12790	1.4938*	163.5764
7	END OF 2nd SHUTIN	486.	12031	12790	1.4918*	163.5764
14	FINAL HYDROSTATIC			15427		

* VALUES USED FOR EXTRAPOLATIONS

PCI ET AL TWEED LAKE M-47
1209.00 m to 1216.50 m

Location: 400/ 66.564 / 125.540 /00

Recorder Number: 001749

Type: INFLATE STRADDLE

Recorder Depth: 1212.00 m

ation: MOUNT CLARK

Subsea Depth: -776.78 m

1st SHUT-IN

HORNER EXTRAPOLATION 12815.57 kPa(a)

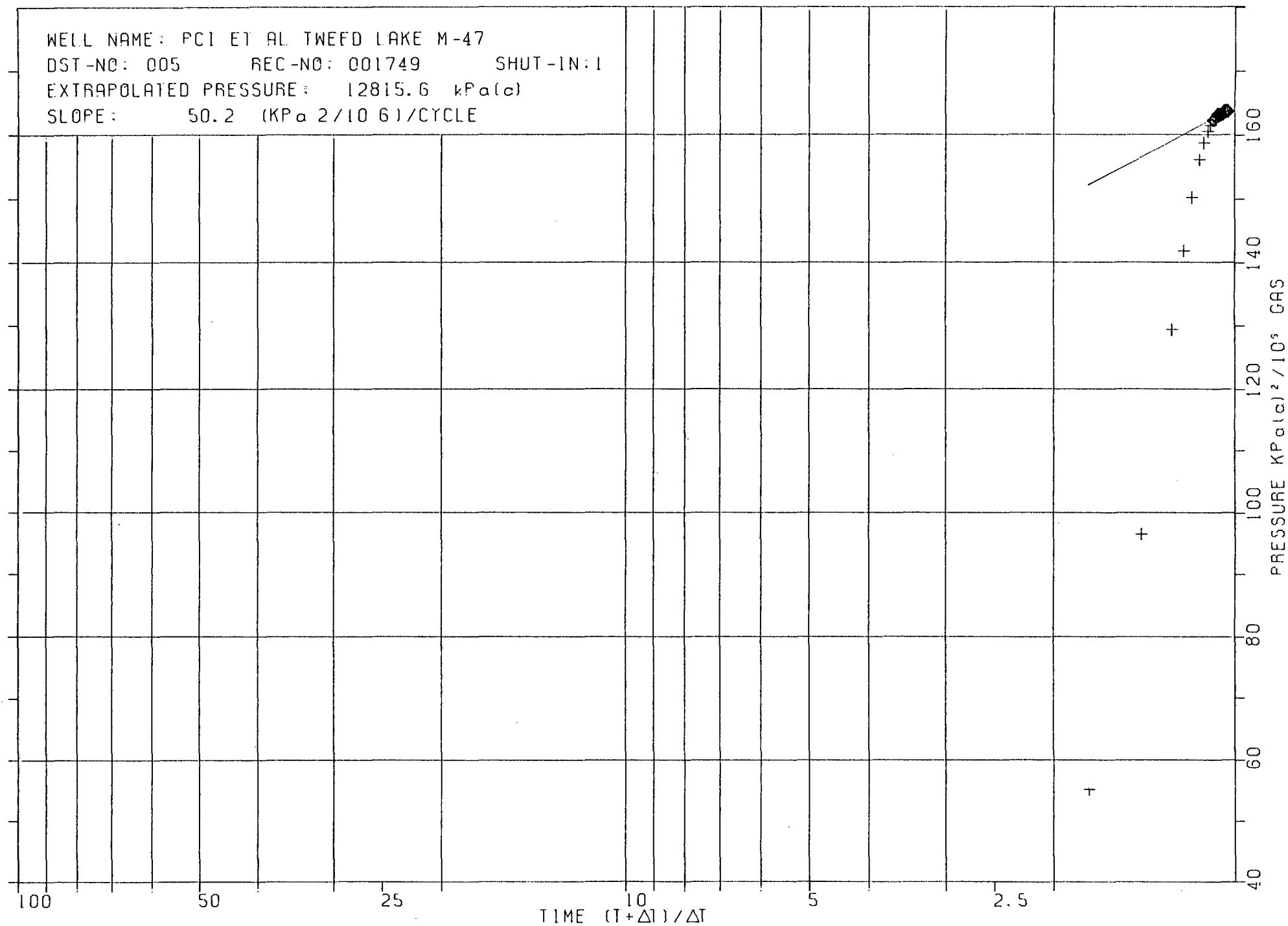
HORNER SLOPE 50.18326 (kPa(a)**2/10**6)/CYCLE

2nd SHUT-IN

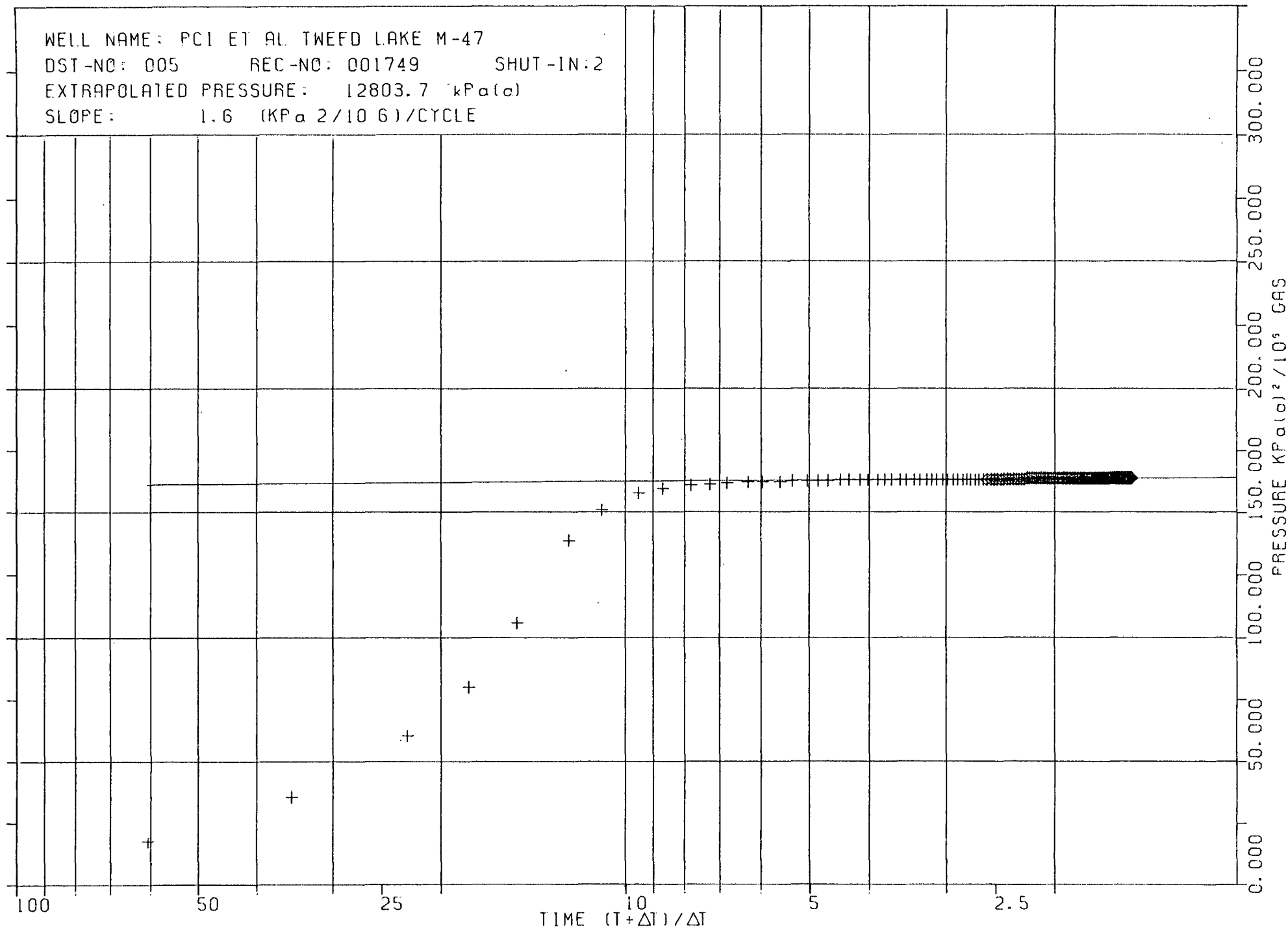
HORNER EXTRAPOLATION 12803.68 kPa(a)

HORNER SLOPE 1.60876 (kPa(a)**2/10**6)/CYCLE

WELL NAME: PCI ET AL TWEED LAKE M-47
DST-NO: 005 REC-NO: 001749 SHUT-IN: 1
EXTRAPOLATED PRESSURE: 12815.6 kPa(a)
SLOPE: 50.2 (kPa 2/10 6)/CYCLE



WELL NAME: PCI ET AL TWEED LAKE M-47
 DST-NO: 005 REC-NO: 001749 SHUT-IN: 2
 EXTRAPOLATED PRESSURE: 12803.7 kPa(a)
 SLOPE: 1.6 (kPa 2/10 6)/CYCLE



E1 AL TWEED LAKE M-47
66.564 / 125.540

REC#001749
DST#005

SHUTIN #

1 +
2 Δ

100000

10000

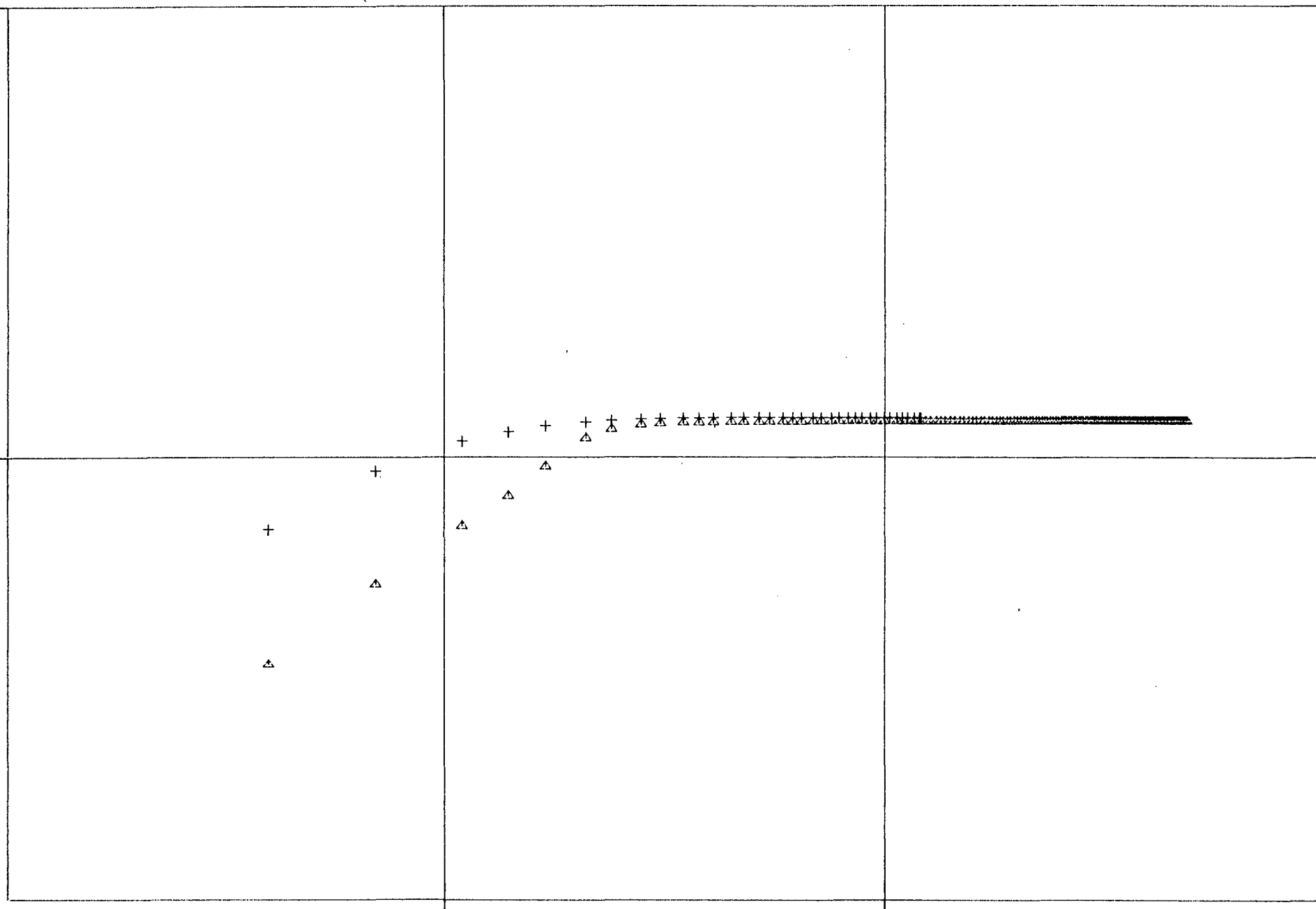
DELTA kPa.

10

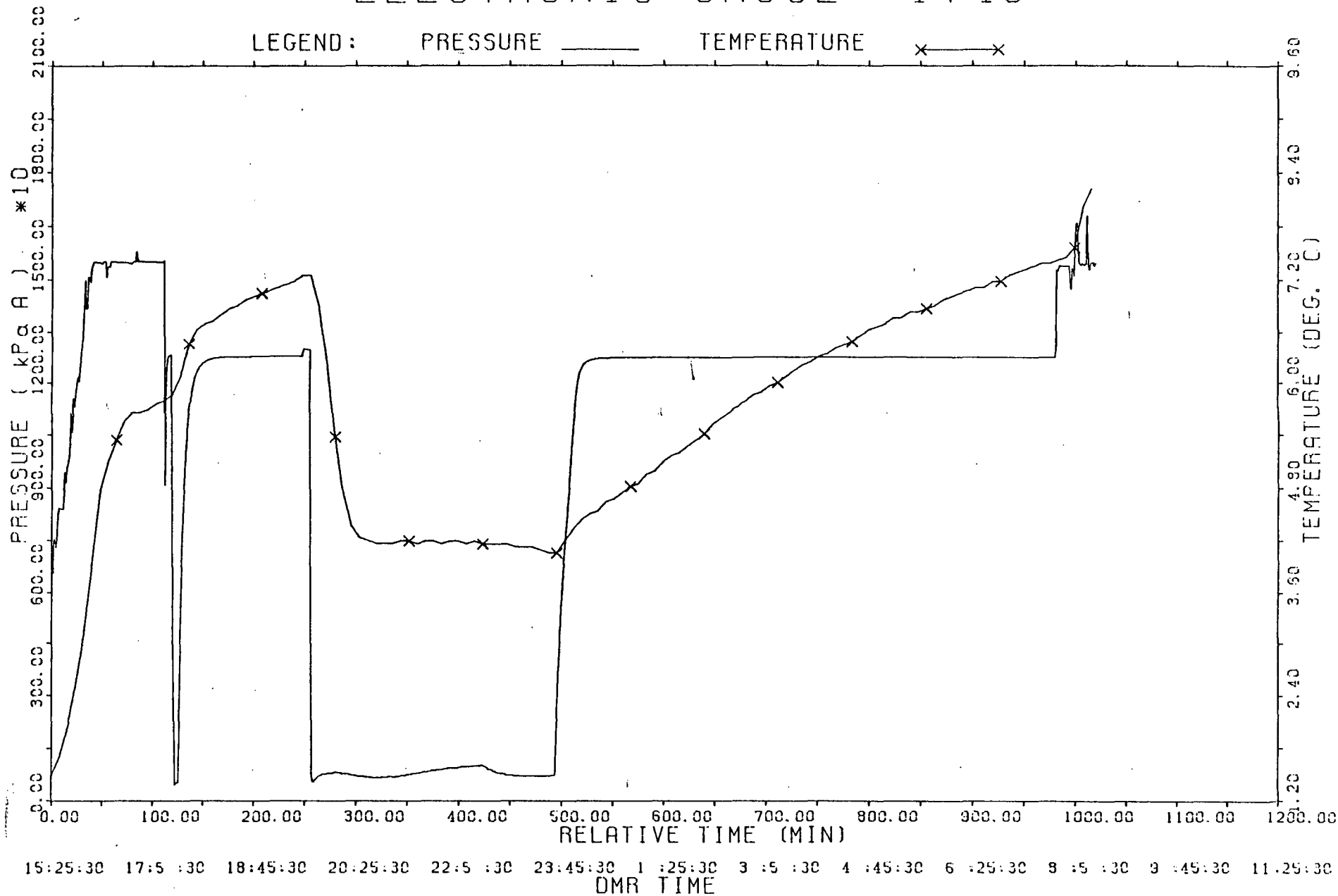
DELTA MINUTES

100

1000



PCI ET AL TWEED LAKE M-47
 66.564 125.540 DST #5
 ELECTRONIC GAUGE #1749



DST#05
PCI ET AL TWEED LAKE M-47
1209.00m to 1216.50m

PRESSURE RECORDER NUMBER : 001749

DEPTH : 1212.00m
TYPE : DMRB

LOCATION : OUTSIDE
CAPACITY : 68900.00kPa(a)

PRESSURE
kPa(a)

***** TEMPERATURE AT RECORDER DEPTH = 8.2 C

- 1) Initial Hydro : 15513.
- 2) 1st Flow Start: 465.
- 3) 1st Flow End : 552.
- 4) END 1st Shutin: 12790.
- 5) 2nd Flow Start: 552.
- 6) 2nd Flow End : 758.
- 7) END 2nd Shutin: 12790.
- 14) Final Hydro. : 15427.

ELECTRONIC GAUGE.
PRESSURES AND
TEMPERATURE.

TEST TIMES (MIN)

1st FLOW : 3.
SHUTIN: 121.
2nd FLOW : 236.
SHUTIN: 486.

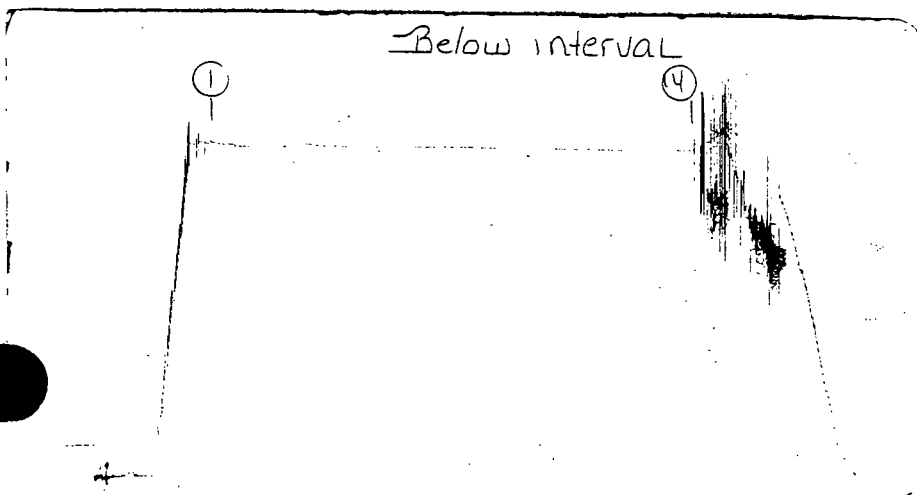
PRESSURE RECORDER NUMBER : 008887

DEPTH : 1217.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15715.
- 14) Final Hydro. : 15698.



BELOW INTERVAL
RECORDER.

DST#05
PCI ET AL TWEED LAKE M-47
1209.00m to 1216.50m

PRESSURE RECORDER NUMBER : 013480

DEPTH : 1200.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

1) Initial Hydro :
14) Final Hydro. :

Above Hydraulic Tool
clock stopped

ABOVE HYDRAULIC
TOOL. CLOCK
STOPPED.

TEST TIMES (MIN)
1st FLOW : 3.
SHUTIN: 121.
2nd FLOW : 236.
SHUTIN: 486.

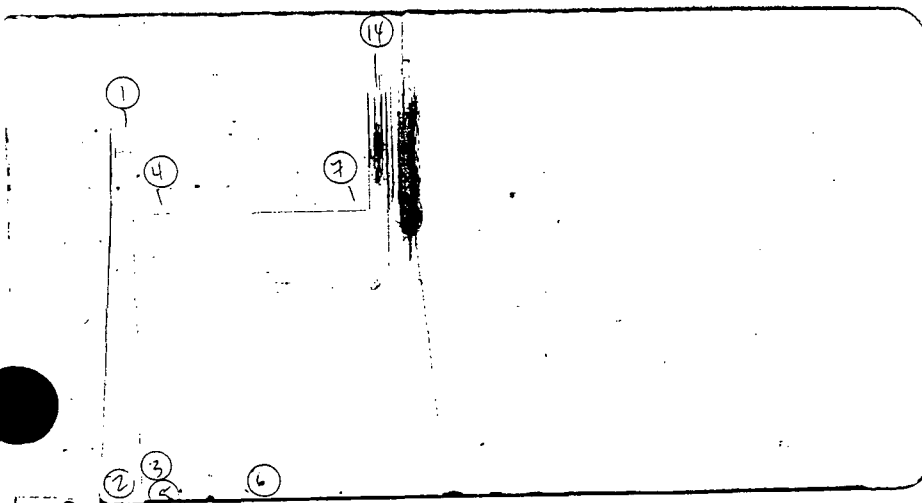
PRESSURE RECORDER NUMBER : 014103

DEPTH : 1212.00m
TYPE : K-3

LOCATION : OUTSIDE
CAPACITY : 20000.00 kPa

PRESSURE
kPa

1) Initial Hydro : 15544.
2) 1st Flow Start: 518.
3) 1st Flow End : 518.
4) END 1st Shutin: 12736.
5) 2nd Flow Start: 592.
6) 2nd Flow End : 707.
7) END 2nd Shutin: 12736.
14) Final Hydro. : 15422.



DST#05
PCI ET AL TWEED LAKE M-47
1209.00m to 1216.50m

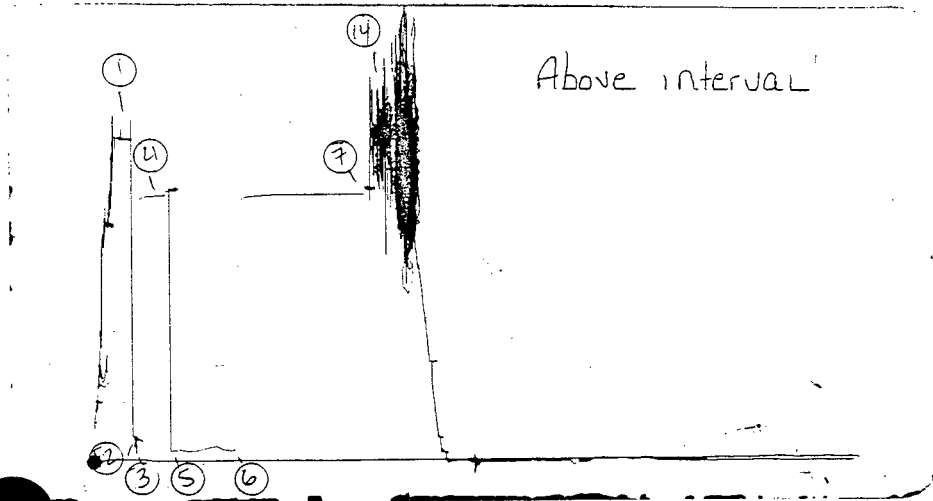
PRESSURE RECORDER NUMBER : 017733

DEPTH : 1204.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 21000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 15193.
- 2) 1st Flow Start : 1311.
- 3) 1st Flow End : 1311.
- 4) END 1st Shutin : 12570.
- 5) 2nd Flow Start : 612.
- 6) 2nd Flow End : 629.
- 7) END 2nd Shutin : 12570.
- 14) Final Hydro. : 15105.



ABOVE INTERVAL
RECORDER.

TEST TIMES (MIN)

1st FLOW : 3.
SHUTIN: 121.
2nd FLOW : 236.
SHUTIN: 486.