

9211-P33-4-7

REF#:C-76-919-09000-67

TEST DATE: 91/02/11

PARAMOUNT ET AL CAMERON
400/ 60.025 / 117.292 /00
DST#02
1404.84m to 1425.00m
SULPHUR POINT

M-13
OTTAWA COPY

DEPTH: 1410.00m

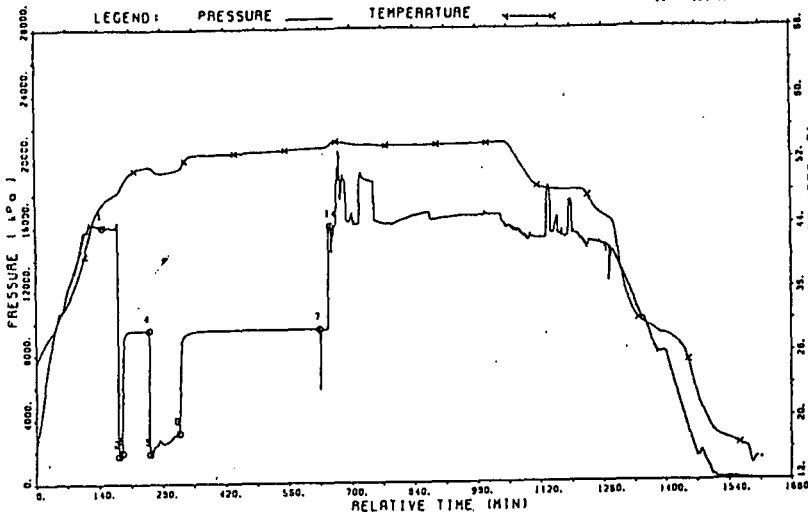
PRESSURE
kPa

- 1) Initial Hydro : 16029.
- 2) 1st Flow Start: 1726.
- 3) 1st Flow End : 1941.
- 4) END 1st Shutin: 9525.
- 5) 2nd Flow Start: 1876.
- 6) 2nd Flow End : 3152.
- 7) END 2nd Shutin: 9532.
- 14) Final Hydro. : 15978.

TEST TIMES (MIN)

1stFLOW : 8.0
SHUTIN: 59.5
2ndFLOW : 66.0
SHUTIN: 310.5

RECORDER # 000005



RECOVERY DATA

TOTAL FLUID RECOVERY CONSISTED OF 250 METERS OF MUD AND OIL AND WATER.
GAS TO SURFACE WITH A RATE OF 4 198 M3/D INCREASING TO 35 299 M3/D.

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. The Floor Manifold Choke was changed as it was plugging with drilling mud.

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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 *****

BAKER OIL TOOLS CANADA
DST#02 REPORT

p.1

Well name : PARAMOUNT ET AL CAMERON
Location : 400/ 60.025 / 117.292 /00
Interval : 1404.84m to 1425.00m
Test Date : 91/02/11
Test Type : DUAL CONVENTIONAL BOTTOM HOLE
Formation : SULPHUR POINT

K.B.Elevation : 775.15m
Grd.Elevation :
TD @ test Date: 1425.00m
Ticket Number : 82760
Unit Number : 890235

Started in hole at : 0415 hrs
Tool opened at : 0840 hrs
Reverse circulated?: YES
Contractor & Rig No: SIERRA #2
Baker#2 : 1 of 1 on the same trip.

Operator: PARAMOUNT RESOURCES LTD.
4100
350 - 7TH AVE. S.W.
CALGARY ALBERTA
T2P3W5

Company Rep : WILSON D
Testers : MILLAR D

5 REPORTS(S) TO: PHIL BESLER
Company:

BLOW DESCRIPTION

PREFLOW: Weak air blow increasing to strong in 45 seconds. Gas to surface in 8 minutes remaining steady throughout.
FINAL FLOW: Strong air blow. Gas to surface immediately and remaining steady throughout.

TOTAL LIQUID RECOVERY : 250.00m

For DST# 2 through DST# 2
3 Fluid Samples
Sent to: AGAT

Btm. Hole Sampler #: 238
Sent to: AGAT

250.00m MUD, OIL AND WATER.

GAS MEASUREMENTS Device: FLOOR MANIFOLD

Bomb#: 1218
Sent to: AGAT

Gas Measurements Continued on Next Page

Dst#02
PARAMOUNT ET AL CAMERON
1404.84m To 1425.00m

p.1a

FLOW #	TIME MIN	CHOKE mm	READING kPa	CUBIC METRES/D
2	5.	6.35	600.	4198.0
2	10.	6.35	800.	5428.0
2	15.	6.35	900.	6045.0
2	20.	6.35	1000.	6664.0
2	25.	19.05	500.	35299.0
2	30.	19.05	500.	35299.0
2	35.	19.05	500.	35299.0
2	40.	19.05	500.	35299.0
2	45.	19.05	400.	29281.0
2	50.	19.05	450.	32288.0
2	55.	19.05	500.	35299.0
2	60.	19.05	500.	35299.0

TOOL SEQUENCE

RECORDER SUMMARY

SUB	LENGTH (m)
PUMP OUT SUB	.33
CROSSOVER SUB	.31
INSIDE RECORDER	1.38
SHUT-IN TOOL	2.58
BTM. HOLE SAMPLER	1.03
HYDRAULIC TOOL	1.50
HYDRAULIC JARS	2.22
INSIDE RECORDER	1.38
SAFETY JOINT	.65
CONVENTIONAL PKR.	2.28
CONVENTIONAL PKR.	1.24
PACKER STICK DOWN	1.04
PERFORATED SPACING	3.06
OUTSIDE RECORDER	2.06
SPACING	4.86
CROSSOVER SUB	.31
DRILL COLLAR	8.97
CROSSOVER SUB	.31
BULL NOSE	.42

1) NUMBER	: 000005	ZI ELECTRONIC
TYPE	: ZI	GAUGE.
LOCATION:	OUTSIDE	
RANGE:	68900.00kPa	
DEPTH	: 1410.00m	
2) NUMBER	: 008884	
TYPE	: K-3	
LOCATION:	OUTSIDE	
RANGE:	20000.00kPa	
DEPTH	: 1410.00m	
3) NUMBER	: 009487	ABOVE HYDRAULIC
TYPE	: K-3	TOOL.
LOCATION:	INSIDE	
RANGE:	20700.00kPa	
DEPTH	: 1391.00m	

***** TOOL TOTAL 35.93
DRILL COLLARS
ID= 70.0mm: 145.98
ID= :

DRILL PIPE
OD=102.0mm: 1252.15
OD= :

COLLAR-PIPE TOTAL 1398.13

STICK UP ABOVE TABLE : 8.19
TOOL ABOVE INTERVAL : 14.90
TOTAL INTERVAL : 21.03
BOTTOM CHOKE SIZE: 25.40 mm

MUD AND HOLE DATA

Calipered Hole Size @ Test Depth:	Water Loss :	8.6cc/s
Hole Condition at Test Time : GOOD	Filter Cake:	2.0 mm
Hole Conditioned Prior to Test? : YES		
Mud Weight : 1150.0 kg/m3	Main Hole Size:	222.00mm
Mud Type : GEL CHEMICAL		
Viscosity : 51.0s/l	Temperature @1410.00m	= 53.9C

DST#02
PARAMOUNT ET AL CAMERON
1404.84 m to 1425.00 m

p.3

Location: 400/ 60.025 / 117.292 /00 Recorder Number: 000005
Test Type: DUAL CONVENTIONAL BOTTOM HOLE Recorder Depth: 1410.00 m
Formation: SULPHUR POINT Subsea Depth: -634.85 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa	PRESSURE ABSCISSA SQUARED kPa ^2/10^6
1	INITIAL HYDROSTATIC			16029	
2	START OF 1st FLOW	0.0		1726	
		1.0		1546	
		1.5		1464	
		2.0		1484	
		2.5		1526	
		3.0		1614	
		3.5		1675	
		4.0		1776	
		5.0		1858	
		5.5		1899	
		6.0		1959	
		6.5		2085	
		7.0		2016	
		7.5		2024	
3	END OF 1st FLOW	8.0		1941	
	1st SHUTIN PERIOD	0.0		1941	
		2.0	5664	7605	5.0000
		3.5	6938	8879	3.2857
		5.5	7227	9168	2.4545
		7.0	7344	9286	2.1429
		9.0	7460	9401	1.8889
		10.5	7494	9436	1.7619
		12.0	7520	9461	1.6667
		14.0	7539	9480	1.5714
		15.5	7548	9489	1.5161
		17.5	7556	9498	1.4571
		19.0	7561	9502	1.4211
		21.0	7565	9507	1.3810
		22.5	7568	9509	1.3556
		24.0	7570	9512	1.3333
		26.0	7573	9514	1.3077

* VALUES USED FOR EXTRAPOLATIONS

DST#02
PARAMOUNT ET AL CAMERON
1404.84 m to 1425.00 m

p.3a

Location: 400/ 60.025 / 117.292 /00
Test Type: DUAL CONVENTIONAL BOTTOM HOLE
Formation: SULPHUR POINT

Recorder Number: 000005
Recorder Depth: 1410.00 m
Subsea Depth: -634.85 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt) /dt kPa	ABSCISSA	PRESSURE SQUARED kPa ² /10 ⁶
		27.5	7574	9515	1.2909*	90.5410
		29.5	7575	9517	1.2712*	90.5657
		31.0	7576	9518	1.2581*	90.5828
		33.0	7577	9519	1.2424*	90.6038
		34.5	7578	9519	1.2319*	90.6190
		36.0	7579	9520	1.2222*	90.6285
		38.0	7579	9521	1.2105*	90.6437
		39.5	7580	9521	1.2025*	90.6532
		41.5	7580	9522	1.1928*	90.6628
		43.0	7581	9522	1.1860*	90.6685
		45.0	7581	9523	1.1778*	90.6799
		46.5	7581	9523	1.1720*	90.6780
		48.0	7582	9523	1.1667*	90.6894
		50.0	7582	9524	1.1600*	90.7009
		51.5	7583	9524	1.1553*	90.7028
		53.5	7583	9524	1.1495*	90.7047
		55.0	7583	9525	1.1455*	90.7161
		57.0	7583	9525	1.1404*	90.7161
		58.5	7584	9525	1.1368*	90.7275
4	END OF 1st SHUTIN	59.5	7584	9525	1.1345*	90.7314
5	START OF 2nd FLOW	0.0		1876		
		1.5		1725		
		3.5		1767		
		5.0		1848		
		7.0		2059		
		8.5		2218		
		10.0		2337		
		12.0		2343		
		13.5		2376		
		15.5		2419		
		17.0		2429		
		19.0		2546		
		20.5		2768		
		22.0		2756		

* VALUES USED FOR EXTRAPOLATIONS

DST#02
PARAMOUNT ET AL CAMERON
1404.84 m to 1425.00 m

p.3b

Location: 400/ 60.025 / 117.292 /00 Recorder Number: 000005
Test Type: DUAL CONVENTIONAL BOTTOM HOLE Recorder Depth: 1410.00 m
Formation: SULPHUR POINT Subsea Depth: -634.85 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa	ABSCISSA	PRESSURE SQUARED kPa ^2/10^6
		24.0		2622		
		25.5		2577		
		27.5		2476		
		29.0		2460		
		31.0		2459		
		32.5		2478		
		34.0		2486		
		36.0		2511		
		37.5		2535		
		39.5		2599		
		41.0		2619		
		43.0		2658		
		44.5		2691		
		46.0		2739		
		48.0		2824		
		49.5		2847		
		51.5		2889		
		53.0		2936		
		55.0		2979		
		56.5		3006		
		58.0		3027		
		60.0		3058		
		61.5		3087		
		63.5		3135		
		65.0		3153		
6	END OF 2nd FLOW	66.0		3152		
	2nd SHUTIN PERIOD	0.0		3152		
		5.0	5702	8854	15.8000	78.3969
		9.5	6010	9162	8.7895	83.9422
		14.0	6119	9271	6.2857	85.9589
		18.5	6180	9333	5.0000	87.0974
		23.0	6239	9391	4.2174	88.1946
		27.5	6268	9420	3.6909	88.7402
		32.0	6282	9434	3.3125	88.9966

* VALUES USED FOR EXTRAPOLATIONS

DST#02
PARAMOUNT ET AL CAMERON
1404.84 m to 1425.00 m

p.3c

Location: 400/ 60.025 / 117.292 /00
Test Type: DUAL CONVENTIONAL BOTTOM HOLE
Formation: SULPHUR POINT

Recorder Number: 000005
Recorder Depth: 1410.00 m
Subsea Depth: -634.85 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt) /dt kPa	ABSCISSA	PRESSURE SQUARED kPa ^2/10^6
		37.0	6295	9447	3.0000	89.2477
		41.5	6306	9458	2.7831	89.4519
		46.0	6314	9467	2.6087	89.6184
		50.5	6321	9474	2.4653	89.7510
		55.0	6328	9480	2.3455	89.8685
		59.5	6333	9485	2.2437	89.9615
		64.0	6337	9489	2.1563	90.0392
		69.0	6341	9493	2.0725	90.1190
		73.5	6344	9496	2.0068	90.1778
		78.0	6347	9499	1.9487	90.2329
		82.5	6349	9502	1.8970	90.2823
		87.0	6352	9504	1.8506	90.3298
		91.5	6354	9506	1.8087	90.3660
		96.0	6356	9508	1.7708	90.4097
		101.0	6358	9510	1.7327	90.4382
		105.5	6359	9511	1.7014	90.4668
		110.0	6361	9513	1.6727	90.5010
		114.5	6362	9515	1.6463	90.5257
		119.0	6364	9516	1.6218	90.5524
		123.5	6365	9517	1.5992	90.5752
		128.0	6366	9518	1.5781	90.5923
		133.0	6367	9519	1.5564*	90.6171
		137.5	6368	9520	1.5382*	90.6323
		142.0	6369	9521	1.5211*	90.6476
		146.5	6370	9522	1.5051*	90.6647
		151.0	6370	9522	1.4901*	90.6761
		155.5	6371	9523	1.4759*	90.6875
		160.0	6371	9524	1.4625*	90.6971
		165.0	6372	9524	1.4485*	90.7085
		169.5	6372	9525	1.4366*	90.7180
		174.0	6373	9525	1.4253*	90.7275
		178.5	6373	9526	1.4146*	90.7352
		183.0	6374	9526	1.4044*	90.7485
		187.5	6374	9527	1.3947*	90.7561
		192.0	6374	9527	1.3854*	90.7561
		197.0	6375	9527	1.3756*	90.7637

* VALUES USED FOR EXTRAPOLATIONS

DST#02
PARAMOUNT ET AL CAMERON
1404.84 m to 1425.00 m

p.3d

Location: 400/ 60.025 / 117.292 /00
Test Type: DUAL CONVENTIONAL BOTTOM HOLE
Formation: SULPHUR POINT

Recorder Number: 000005
Recorder Depth: 1410.00 m
Subsea Depth: -634.85 m

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P kPa	PRESSURE(T+dt)/dt kPa	ABSCISSA	PRESSURE SQUARED kPa ² /10 ⁶
		201.5	6375	9527	1.3672*	90.7714
		206.0	6376	9528	1.3592*	90.7828
		210.5	6376	9528	1.3515*	90.7904
		215.0	6376	9529	1.3442*	90.7923
		219.5	6377	9529	1.3371*	90.8038
		224.0	6377	9529	1.3304*	90.8038
		229.0	6377	9529	1.3231*	90.8095
		233.5	6377	9530	1.3169*	90.8133
		238.0	6378	9530	1.3109*	90.8171
		242.5	6378	9530	1.3052*	90.8171
		247.0	6378	9530	1.2996*	90.8247
		251.5	6378	9530	1.2942*	90.8285
		256.0	6378	9531	1.2891*	90.8342
		261.0	6378	9531	1.2835*	90.8324
		265.5	6379	9531	1.2787*	90.8381
		270.0	6379	9531	1.2741*	90.8438
		274.5	6379	9531	1.2696*	90.8419
		279.0	6379	9531	1.2652*	90.8476
		283.5	6379	9532	1.2610*	90.8514
		288.0	6379	9531	1.2569*	90.8476
		293.0	6379	9532	1.2526*	90.8533
		297.5	6380	9532	1.2487*	90.8571
		302.0	6380	9532	1.2450*	90.8609
		306.5	6380	9532	1.2414*	90.8590
7	END OF 2nd SHUTIN	310.5	6380	9532	1.2383*	90.8609
14	FINAL HYDROSTATIC			15978		

* VALUES USED FOR EXTRAPOLATIONS

DST#02
PARAMOUNT ET AL CAMERON
1404.84 m to 1425.00 m

p.3e

Location: 400/ 60.025 / 117.292 /00 Recorder Number: 000005
Test Type: DUAL CONVENTIONAL BOTTOM HOLE Recorder Depth: 1410.00 m
Formation: SULPHUR POINT Subsea Depth: -634.85 m

1st SHUT-IN
HORNER EXTRAPOLATION 9534.54 kPa
HORNER SLOPE 3.24303 (kPa**2/10**6)/CYCLE

2nd SHUT-IN
HORNER EXTRAPOLATION 9544.53 kPa
HORNER SLOPE 2.42701 (kPa**2/10**6)/CYCLE

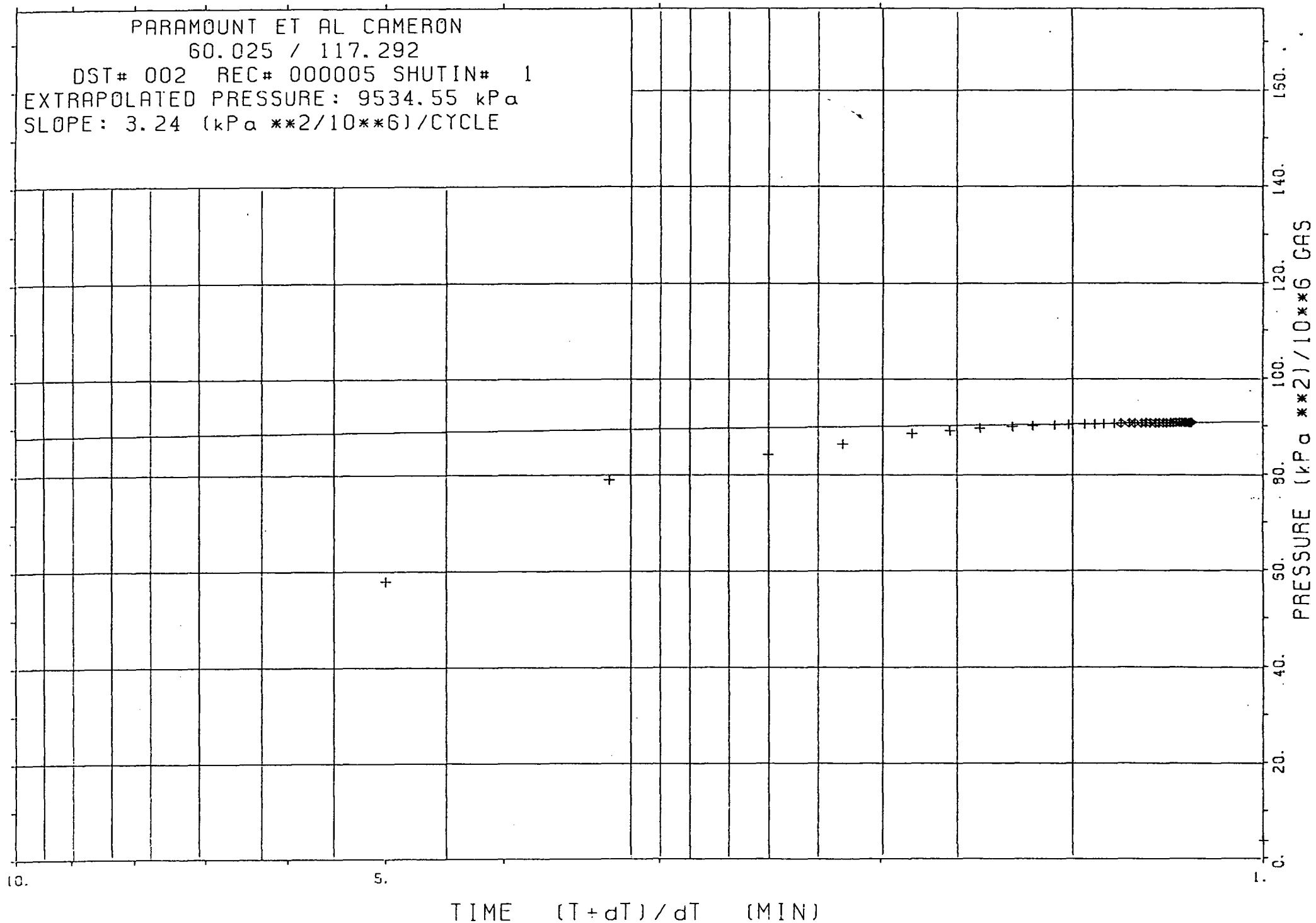
PARAMOUNT ET AL CAMERON

60.025 / 117.292

DST# 002 REC# 000005 SHUTIN# 1

EXTRAPOLATED PRESSURE: 9534.55 kPa

SLOPE: 3.24 (kPa **2/10**6)/CYCLE



PARAMOUNT ET AL CAMERON

60.025 / 117.292

DST# 002 REC# 000005 SHUTIN# 2

EXTRAPOLATED PRESSURE: 9544.53 kPa

SLOPE: 2.43 (kPa **2/10**6)/CYCLE

+

+

+

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PRESSURE (kPa **2)/10**6 GAS

TIME (T+dT)/dT (MIN)

PARAMOUNT ET AL. CAMERON

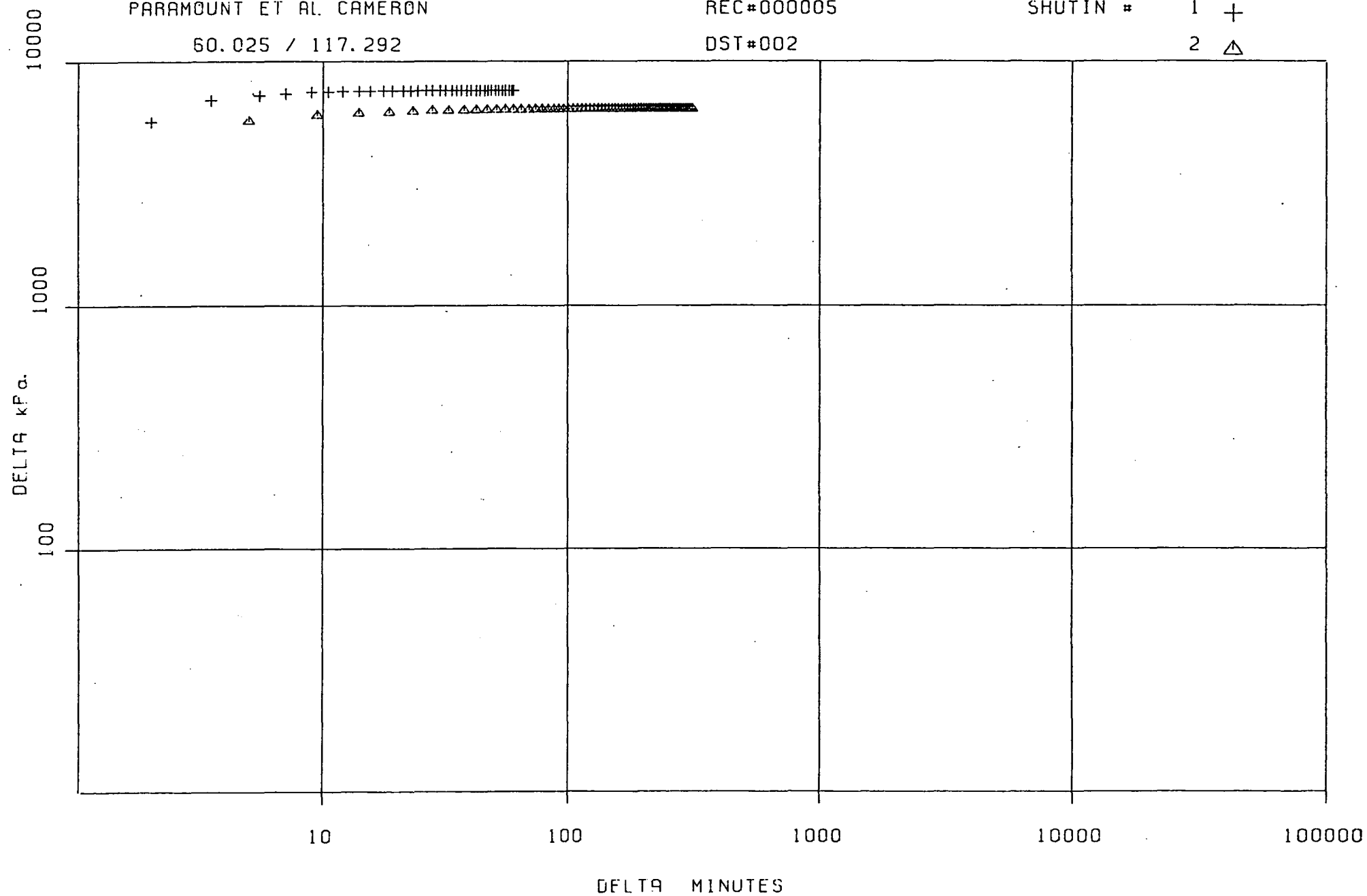
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SHUTIN # 1 +

60.025 / 117.292

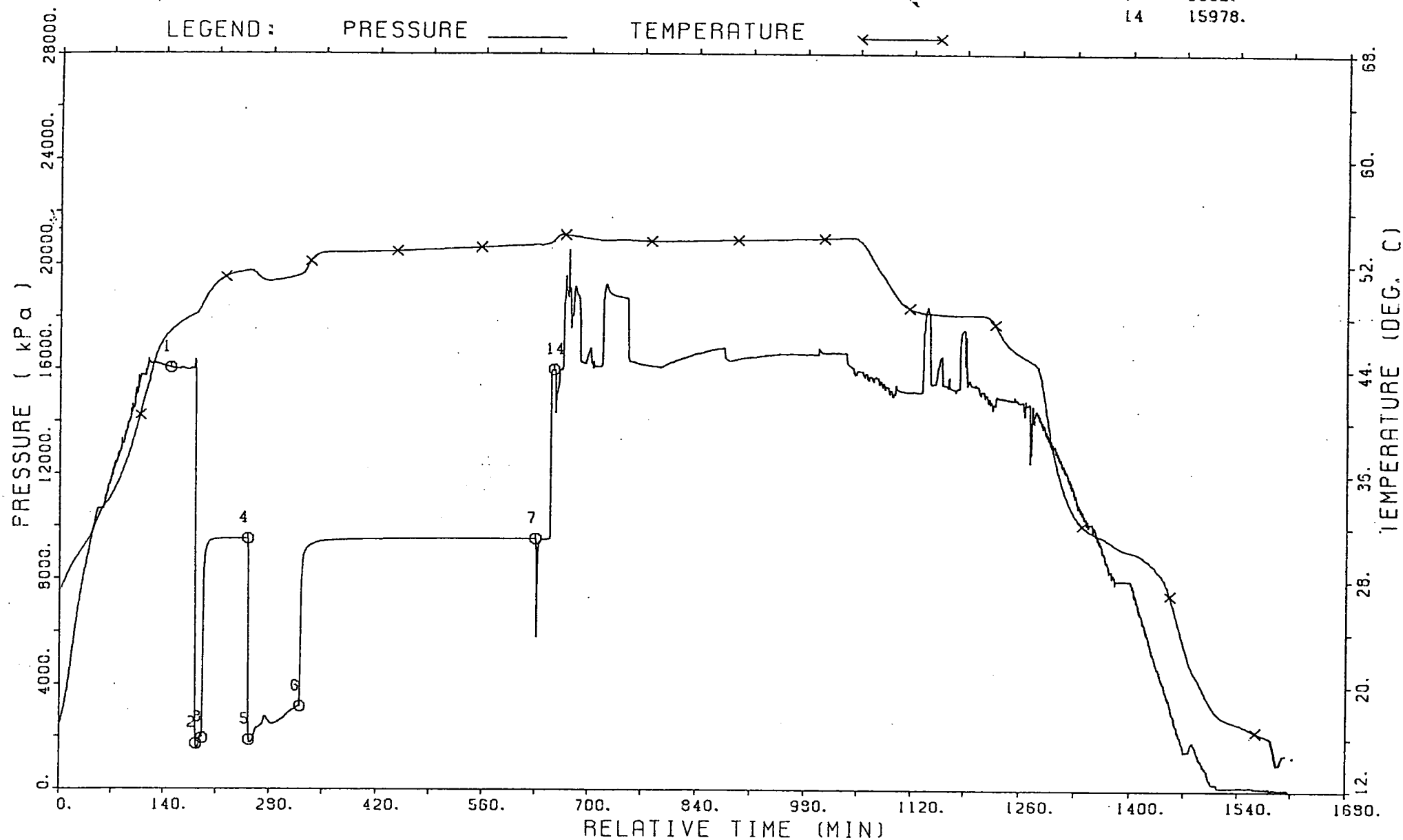
DST#002

2 $\triangle$



PARAMOUNT ET AL CAMEON M-73
 60.025/117.292 DST #2
 ZI ELECTRONIC GAUGE #5

LEGEND: ○ 1 = 16029. kPa
 2 1726.
 3 1941.
 4 9525.
 5 1876.
 6 3152.
 7 9532.
 14 15978.



DST#02
PARAMOUNT ET AL CAMERON
1404.84m to 1425.00m

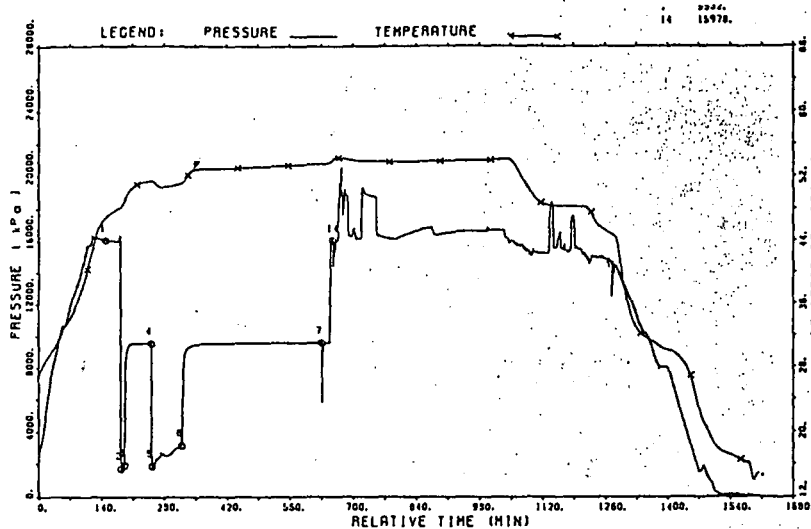
PRESSURE RECORDER NUMBER : 000005

DEPTH : 1410.00m LOCATION : OUTSIDE
TYPE : ZI CAPACITY : 68900.00 kPa

PRESSURE
kPa

***** TEMPERATURE AT RECORDER DEPTH = 53.9 C

- 1) Initial Hydro : 16029.
- 2) 1st Flow Start: 1726.
- 3) 1st Flow End : 1941.
- 4) END 1st Shutin: 9525.
- 5) 2nd Flow Start: 1876.
- 6) 2nd Flow End : 3152.
- 7) END 2nd Shutin: 9532.
- 14) Final Hydro. : 15978.



ZI ELECTRONIC
GAUGE.

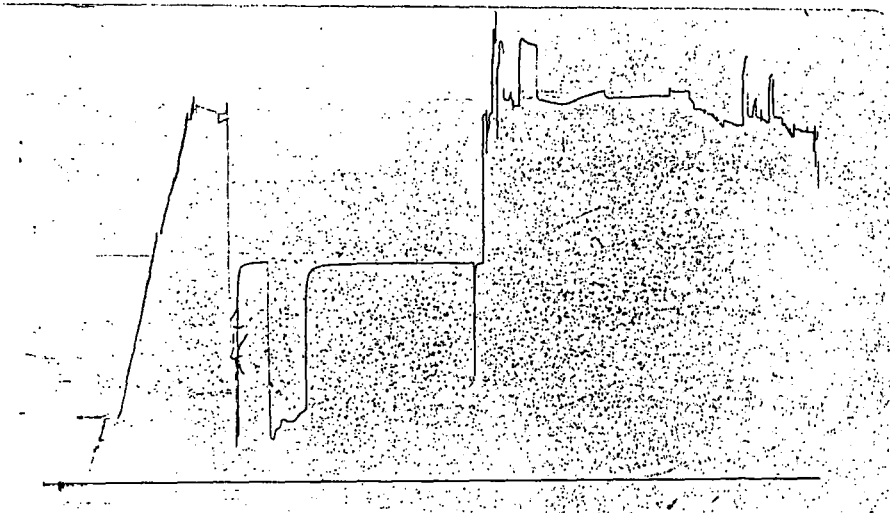
TEST TIMES (MIN)
1st FLOW : 8.0
SHUTIN: 59.5
2nd FLOW : 66.0
SHUTIN: 310.5

PRESSURE RECORDER NUMBER : 008884

DEPTH : 1410.00m LOCATION : OUTSIDE
TYPE : K-3 CAPACITY : 20000.00 kPa

PRESSURE
kPa

- 1) Initial Hydro : 16046.
- 2) 1st Flow Start: 1582.
- 3) 1st Flow End : 2092.
- 4) END 1st Shutin: 9548.
- 5) 2nd Flow Start: 1918.
- 6) 2nd Flow End : 3175.
- 7) END 2nd Shutin: 9517.
- 14) Final Hydro. : 16026.



DST#02
PARAMOUNT ET AL CAMERON
1404.84m to 1425.00m

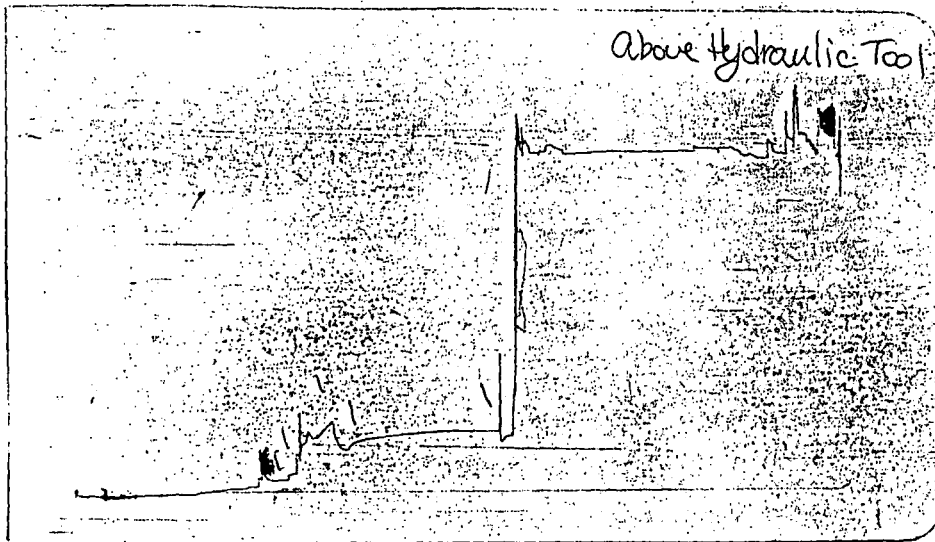
PRESSURE RECORDER NUMBER : 009487

DEPTH : 1391.00m
TYPE : K-3

LOCATION : INSIDE
CAPACITY : 20700.00 kPa

PRESSURE
kPa

- 1) Initial Hydro :
- 2) 1st Flow Start: 413.
- 3) 1st Flow End : 672.
- 4) END 1st Shutin:
- 5) 2nd Flow Start: 672.
- 6) 2nd Flow End : 3029.
- 7) END 2nd Shutin: 2642.
- 14) Final Hydro. :



ABOVE HYDRAULIC
TOOL.

TEST TIMES (MIN)
1st FLOW : 8.0
SHUTIN: 59.5
2nd FLOW : 66.0
SHUTIN: 310.5

CANADA OIL AND GAS LANDS
ADMINISTRATION
ADMINISTRAT-ON DU PÉTROLE ET DU
GAZ DES TERRES DU CANADA

FEB 25 1991

ENGINEERING AND CONTROL
BRANCH
TECHNIQUE ET DU CONTRÔLE