

TRILOBITE TESTING L.L.C.

OPERATOR : Oxy USA Inc.

DATE 9-7-99

WELL NAME: Frey "F-1"

KB 2993.00 ft

TICKET NO: 12201

DST #1

LOCATION : 13-27s-34w Haskell co KS

GR 2980.00 ft

FORMATION: Morrow

INTERVAL : 5135.00 To 5152.00 ft

TD 5152.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10242	10242	Alpine			PF Fr. 0325 to 0355 hr
SI 60 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 0355 to 0455 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 0455 to 0555 hr
FS 120 Depth(ft)	5149.0	5149.0	5140.0	0.0	0.0	FS Fr. 0555 to 0755 hr

	Field	1	2	3	4	
A. Init Hydro	2537.0	2540.0	2465.0	0.0	0.0	T STARTED 0140 hr
B. First Flow	58.0	68.0	22.0	0.0	0.0	T ON BOTM 0323 hr
B1. Final Flow	65.0	68.0	80.0	0.0	0.0	T OPEN 0325 hr
C. In Shut-in	1375.0	1385.0	1382.0	0.0	0.0	T PULLED 0755 hr
D. Init Flow	128.0	147.0	90.0	0.0	0.0	T OUT 1045 hr
E. Final Flow	182.0	182.0	189.0	0.0	0.0	
F. Fl Shut-in	1372.0	1382.0	1367.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2522.0	2522.0	2440.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 18000.00 lbs
						Initial Str Wt 92000.00 lbs
						Unseated Str Wt 92000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 643.00 ft
						D.P. Length 4474.00 ft

RECOVERY

Tot Fluid 310.00 ft of 310.00 ft in DC and 0.00 ft in DP
 30.00 ft of Mud cut Water 30% Mud 70% Water
 280.00 ft of Water 100% Water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 27000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial flow:

Surface blow built to 1" in 5 min.

Decreased to 3/4" in 30 min.

Initial Shut-in:

No blow-back.

Final Flow:

Surface blow throughout.

Final Shut-in:

No blow-back.

Remarks: Est. 17 ft. of pay.

SAMPLES: None

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	48.00 S/L
W.L.	9.50 in3
F.C.	0.00 in
Mud Drop Y	40.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	128.00 F
Hole Condition	Good
% Porosity	16.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Jake Slatten
Contr.	Cheyenne
Rig #	12
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV-STRADDLE

ELL NAME: Frey "F-1"

LOCATION : 13-27S-34W

CKET No. 12202 D.S.T. No. 2 DATE 9-8-99

TAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 27

TOM PACKERS AND ANCHOR 20

TAL TOOL 77

ILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands 2 Single Total 187

TAL ASSEMBLY 264

C. ABOVE TOOLS.Stands 7 Single Total 643

P. ABOVE TOOLS.Stands 48 Single Total 4480

TAL DRILL COLLARS DRILL PIPE & TOOLS .. 5387

TAL DEPTH 5379

TAL DRILL PIPE ABOVE K.B. 8

MARKS:

FLUID SAMPLER DATA

otal Vol. 5000 ML.

otal Vol. Rec. 5000 ML.

il 0 ML.

ud 0 ML.

tr. 5000 ML.

as 0 CF.

si. 260

ht. 126 F.

it RW. 3.5 Ohms at 66 F. 1,700 PPM.

ec RW. 0.30 Ohms at 52 F. 31,000 PPM.

ravity -- at -- F.

P.O. SUB Cir. sub	5025
C.O. SUB Top of tool	5115
Double pin	5116
S.I. TOOL H&T	5121
Sampler	5124
HMV Sterling	5129
JARS Bowen	5134
SAFETY JOINT Bowen	5136
PACKER Sparton	5141
PACKER Shale	5145
DEPTH	
STUBB 1 ft.	5146
ANCHOR 5 ft. perf	5151
Alpine	5151
Pu. sub	5156
AK-1	5159
6 ft. perfs	5162
Blank	5162
3 ft. of packer	5165
T.C.	
DEPTH	
PACKER Shale "Center"	5165
2 ft. of packer	5167
21 ft. perfs	5188
Co. sub	5189
2 stds. DP	5376
AK-1	5376
Co. sub	5377
BULLNOSE 2 ft. perf	
T.D.	5379

TEST HISTORY

12202 D.S.T.#2 Frey "F-1" Oxy USA Inc.

Flag Points
t(Min.) P(PSIg)

A:	0.00	2437.08
B:	0.00	26.34
C:	30.67	98.40
D:	60.67	1387.51
E:	0.00	112.26
F:	120.33	263.80
G:	122.00	1346.58
Q:	0.00	2427.49

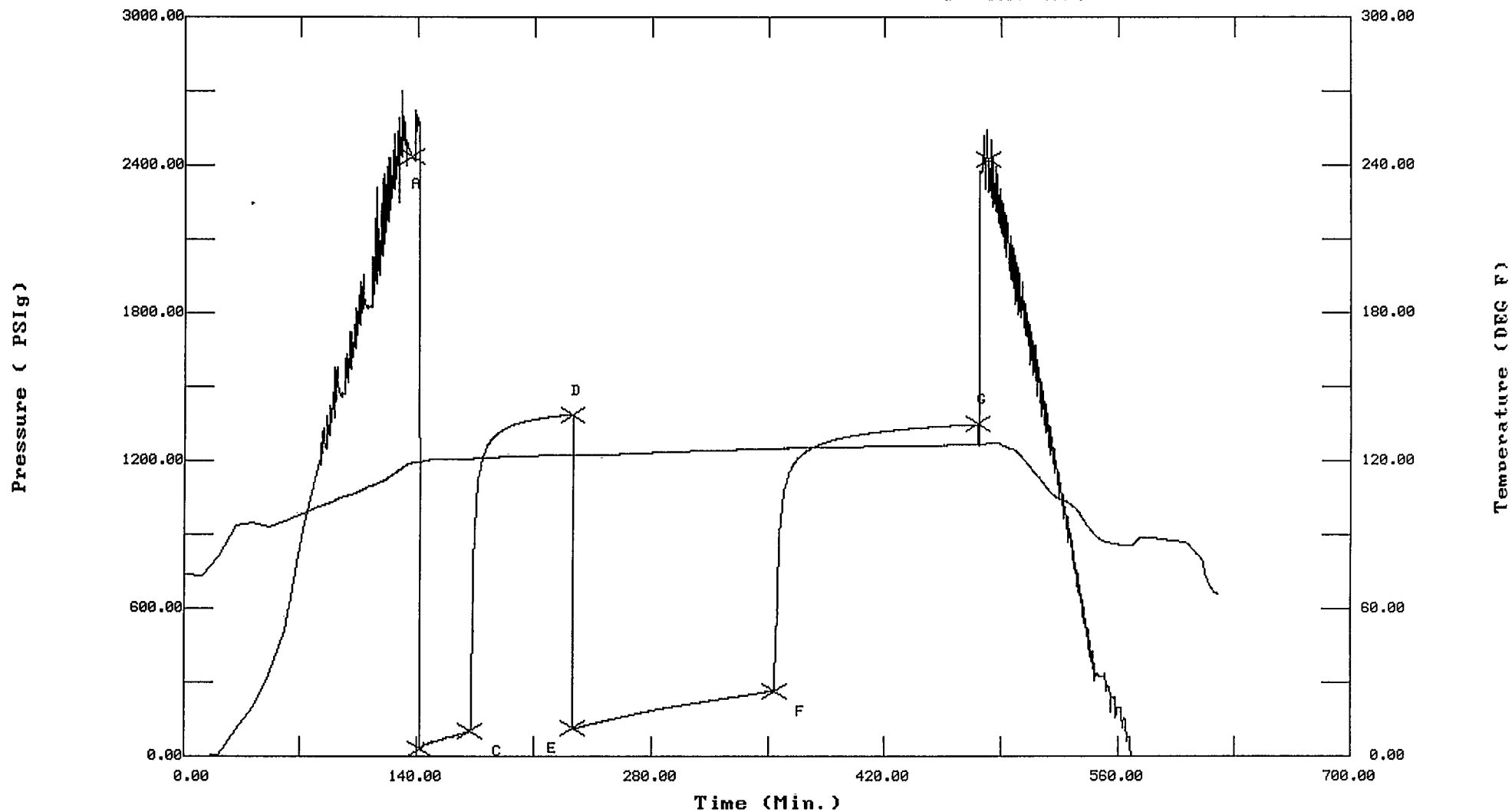
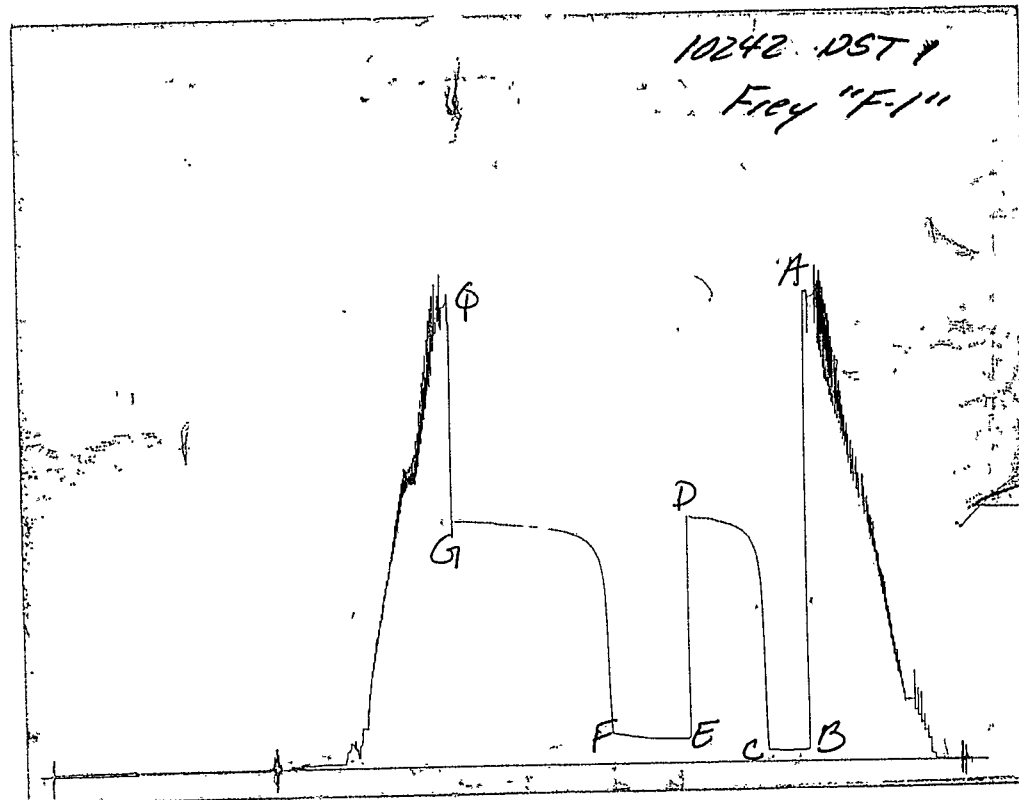


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Oxy USA Inc.

DATE 9-8-99

WELL NAME: Frey "F-1"

KB 2993.00 ft

TICKET NO: 12202

DST #2

LOCATION : 13-27S-34W Haskell co KS

GR 2980.00 ft

FORMATION: Morrow

INTERVAL : 5145.00 To 5165.00 ft

TD 5379.00 ft

TEST TYPE: CONV-STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10242	10242	Alpine	13630		PF Fr. 2310 to 2340 hr
SI 60 Range(Psi)	4100.0	4100.0	5000.0	4625.0	0.0	IS Fr. 2340 to 0040 hr
SF 120 Clock(hrs)	12 HR	12 HR	Elect	12 HR		SF Fr. 0040 to 0240 hr
FS 120 Depth(ft)	5159.0	5159.0	5151.0	5376.0	0.0	FS Fr. 0240 to 0440 hr

	Field	1	2	3	4	
A. Init Hydro	2518.0	2511.0	2437.0	0.0	0.0	T STARTED 2100 hr
B. First Flow	49.0	61.0	26.0	0.0	0.0	T ON BOTM 2307 hr
B1. Final Flow	79.0	80.0	98.0	0.0	0.0	T OPEN 2310 hr
C. In Shut-in	1382.0	1390.0	1387.0	0.0	0.0	T PULLED 0440 hr
D. Init Flow	151.0	163.0	112.0	0.0	0.0	T OUT 0800 hr
E. Final Flow	252.0	272.0	263.0	0.0	0.0	
F. Fl Shut-in	1350.0	1364.0	1346.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2484.0	2471.0	2427.0	0.0	0.0	Tool Wt. 4800.00 lbs
Inside/Outside	O	O	I	S		Wt Set On Packer 35000.00 lbs
						Wt Pulled Loose 13000.00 lbs
						Initial Str Wt 90000.00 lbs
						Unseated Str Wt 92000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 643.00 ft
						D.P. Length 4480.00 ft

RECOVERY

Tot Fluid 480.00 ft of 480.00 ft in DC and 0.00 ft in DP
 50.00 ft of Water cut Mud 36% Water 64% Mud
 120.00 ft of Mud cut Water 75% Water 25% Mmud
 310.00 ft of Water 100% Water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 31000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 3 /4" built to 2" in 5 min. Decreased
 to 1 1/4" in 30 min.
 Initial Shut-in:
 No blow-back.
 Final Flow:
 Surface blow throughout.
 Final Shut-in:
 No blow-back.

Remarks: 20 ft. of pay.
 held. Top RW. 0.88 at 47 F. 10,500 PPM.
 Middle RW. 0.32 at 52 F. 29,000 PPM.
 Bottom RW. 0.30 at 52 F. 31,000 PPM.
 SAMPLES: None
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/cf
 Vis. 60.00 S/L
 W.L. 9.70 in3
 F.C. 0.00 in
 Mud Drop Y 50.0 ft

Amt. of fill 0.00 ft
 Btm. H. Temp. 126.00 F
 Hole Condition Good
 % Porosity 20.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Lanny Saloga
 Co. Rep. Jake
 Contr. Cheyenne
 Rig # 12
 Unit #
 Pump T.

Test Successful: Y

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INTERVAL TOOL 27

OTTOM PACKERS AND ANCHOR 20

TAL TOOL 77

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TAL DRILL COLLARS DRILL PIPE & TOOLS .. 5387

TAL DEPTH 5379

TAL DRILL PIPE ABOVE K.B. 8

MARKS:

FLUID SAMPLER DATA

otal Vol. 5000 ML.

otal Vol. Rec. 5000 ML.

oil 0 ML.

fluid 0 ML.

Water. 5000 ML.

Gas 0 CF.

psi. 260

ght. 126 F.

pit RW. 3.5 Ohms at 66 F. 1,700 PPM.

rec RW. 0.30 Ohms at 52 F. 31,000 PPM.

Gravity -- at -- F.

P.O. SUB Cir. sub	5025
C.O. SUB Top of tool	5115
Double pin	5116
S.I. TOOL H&T	5121
Sampler	5124
HMV Sterling	5129
JARS Bowen	5134
SAFETY JOINT Bowen	5136
PACKER Sparton	5141
PACKER Shale	5145
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STUBB 1 ft.	5146
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DEPTH	
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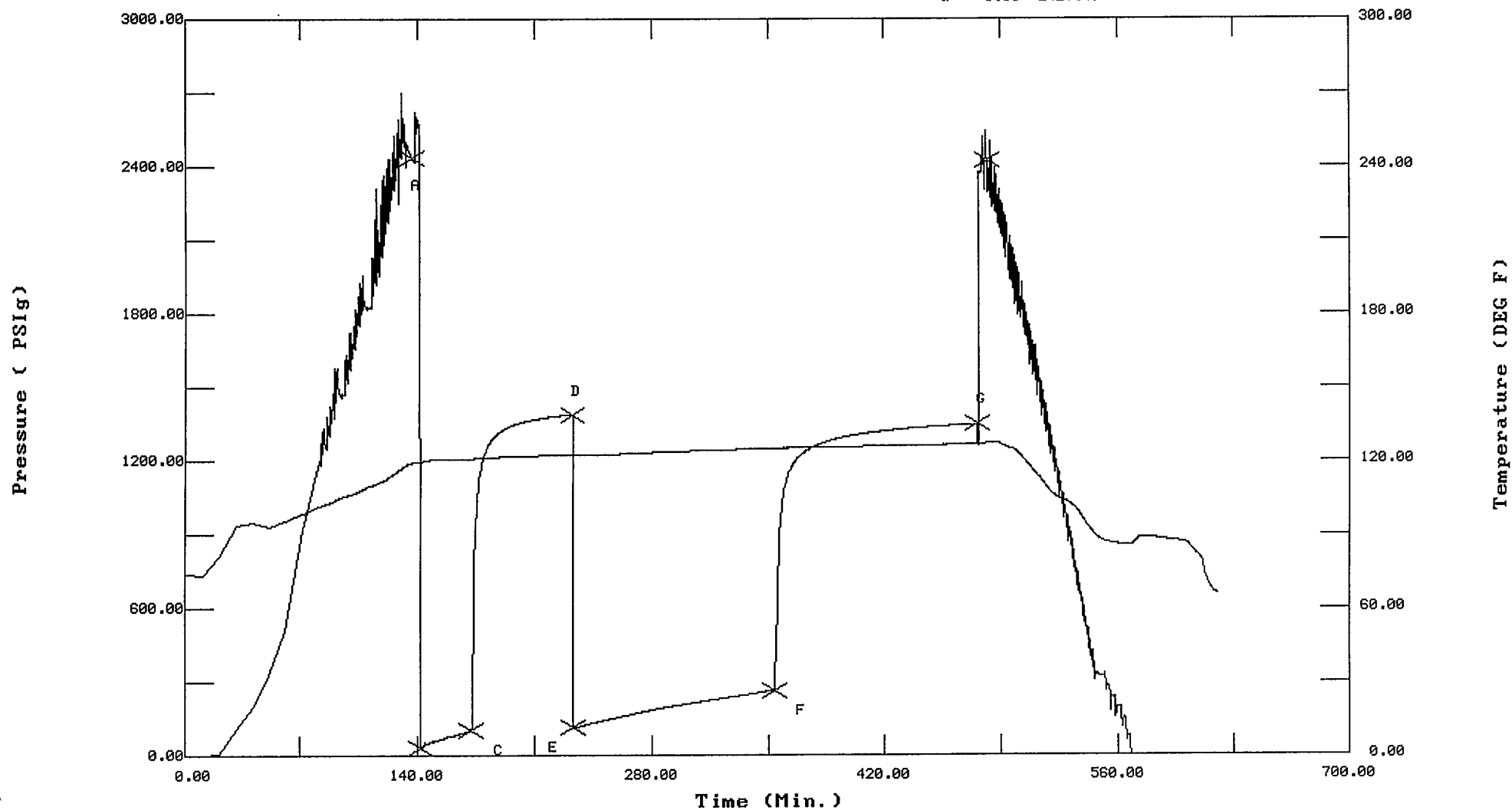
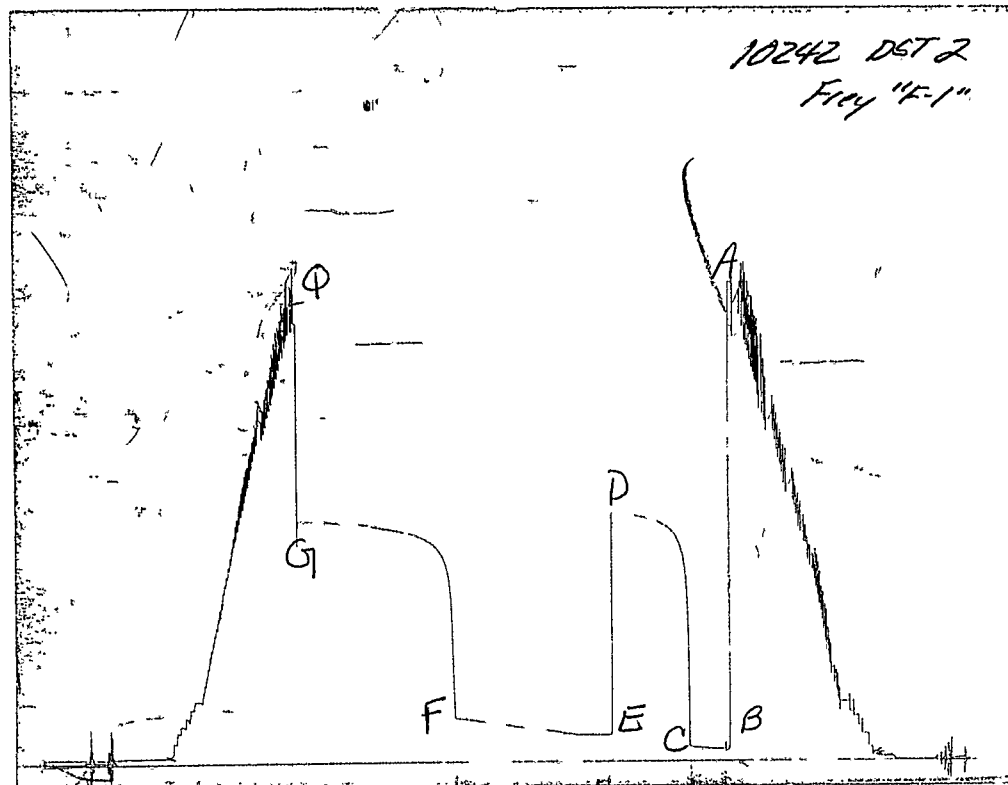
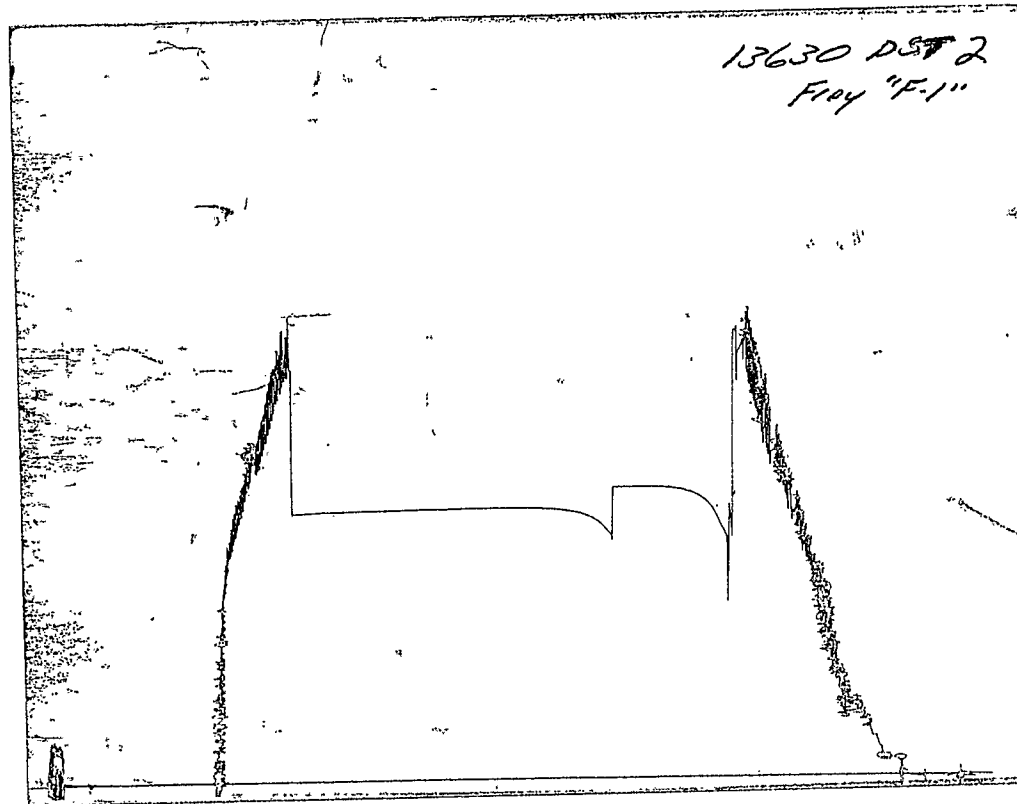


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