

Well Name: MLP Caverns "A" #3
Company: Oxy USA
Location: 31-31s-38w
Stevens County Kansas
Date: 7-7-99

TRILOBITE TESTING L.L.C.

OPERATOR : Oxy Usa Inc.

DATE 6-26-99

WELL NAME: MLP Caverns "A" #3

KB 3102.00 ft

TICKET NO: 12164 DST #1

LOCATION : 31-31S-38W Stevens co KS

GR 3092.00 ft

FORMATION: Lower Morrow

INTERVAL : 5696.00 To 5708.00 ft

TD 5708.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10993	10993	3227			PF Fr. 0930 to 1000 hr
SI 60 Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0	IS Fr. 1000 to 1100 hr
SF 15 Clock(hrs)	12HR.	12HR.	Elet.			SF Fr. 1100 to 1115 hr
FS 60 Depth(ft)	5704.0	5704.0	5696.0	0.0	0.0	FS Fr. 1115 to 1215 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2871.0	0.0	0.0	T STARTED 0645 hr
B. First Flow	0.0	0.0	2287.0	0.0	0.0	T ON BOTM 0928 hr
Bl. Final Flow	0.0	0.0	2273.0	0.0	0.0	T OPEN 0930 hr
C. In Shut-in	0.0	0.0	2281.0	0.0	0.0	T PULLED 1215 hr
D. Init Flow	0.0	0.0	2534.0	0.0	0.0	T OUT 1545 hr
E. Final Flow	0.0	0.0	2538.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	2489.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2664.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 105000.00 lbs
						Initial Str Wt 82000.00 lbs
						Unseated Str Wt 84000.00 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 593.00 ft
						D.P. Length 5077.00 ft

RECOVERY

Tot Fluid 90.00 ft of 90.00 ft in DC and 0.00 ft in DP

90.00 ft of Drilling mud

0.00 ft of

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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Strong blow bottom of bucket in
5 mins.

Initial Shut-in:

Bled off 2" no blow back

Final Flow:

No blow

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	45.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop Y	25.0 ft
Amt. of fill	10.00 ft
Btm. H. Temp.	127.00 F
Hole Condition	Fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike Colantonio
Co. Rep.	Cal Whyllie
Contr.	Cheyenne
Rig #	2
Unit #	
Pump T.	

SAMPLES: NO

SENT TO:

Test Successful: N

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: MLP Cavners "A" #3

LOCATION : 31-31S-38W

WELL No. 12165 D.S.T. No. 2 DATE 6-27-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

TOTAL PACKERS AND ANCHOR 11

TOTAL TOOL 41

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY

C. ABOVE TOOLS.Stands10 Single Total 593

P. ABOVE TOOLS.Stands81 Single 1 Total 5077

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5711

TOTAL DEPTH 5708

TOTAL DRILL PIPE ABOVE K.B. 3FT

MARKS:

SAMPLER DATA

2 Cubic ft gas

50Ml Mud

00PSI

00ml Total

P.O. SUB Top tool	5667
C.O. SUB 1ft	5668
S.I. TOOL Sterling	5673
3ft Sampler	5676
HMV Sterling	5681
JARS Sterling	5686
SAFETY JOINT Bowens	5688
PACKER 5ft	5692
PACKER 5ft	5697
DEPTH	
STUBB 1ft	5698
ANCHOR	
Alpine Rec.	5698
6ft Perf	5704
AK-1 Rec.	5705
BULLNOSE	
T.D. 4ft Bullplug	5708

12164 DST #1 MLP Cavners "A": #3 OXY USA INC.

TEST HISTORY

Flag Points

t (Min.)	P (PSig)
A: 0.00	2871.81
B: 0.00	2287.42
C: 17.50	2273.82
D: 62.50	2281.37
E: 0.00	2534.75
F: 16.00	2538.36
G: 56.75	2489.19
H: 0.00	2664.37

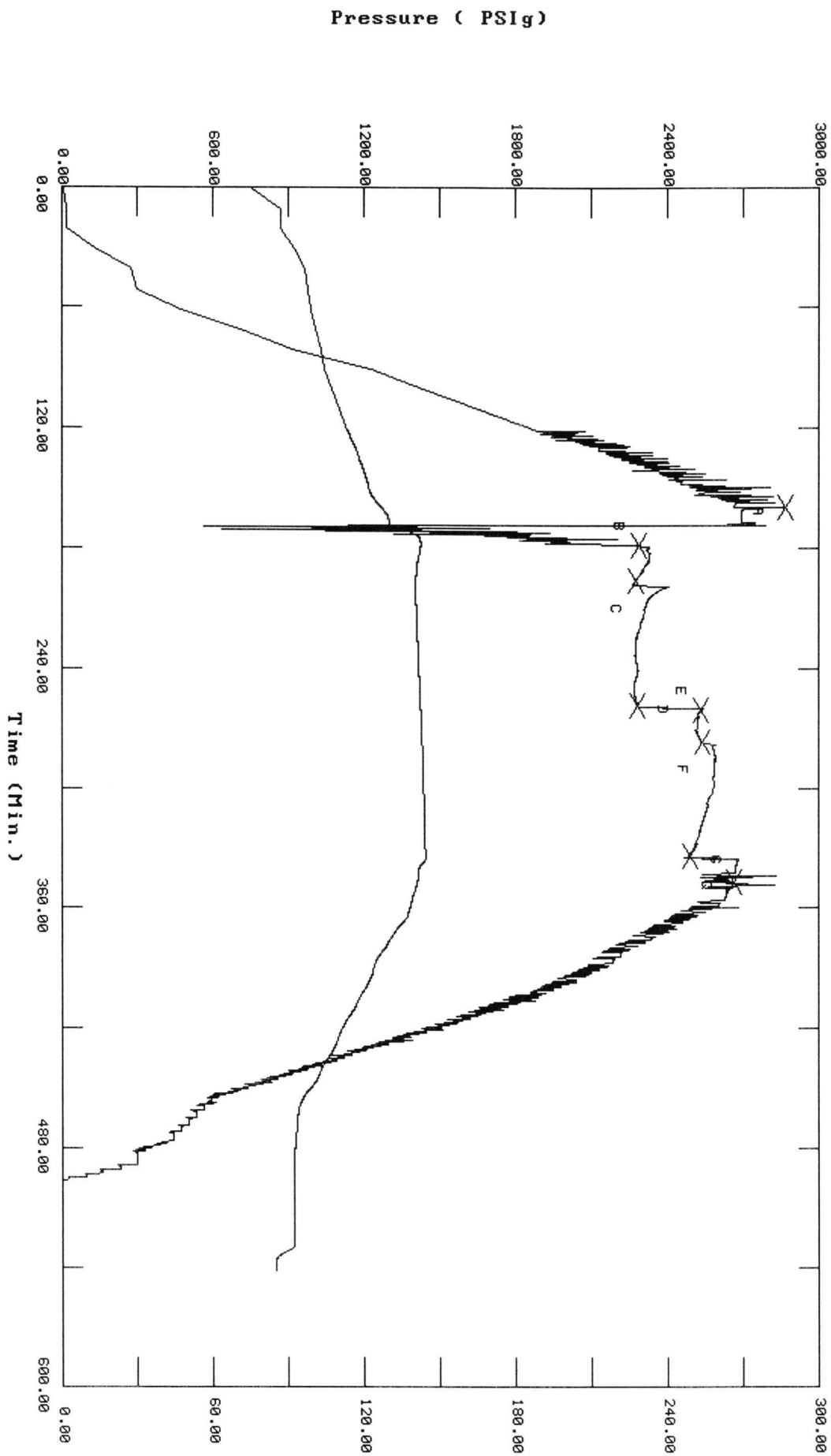
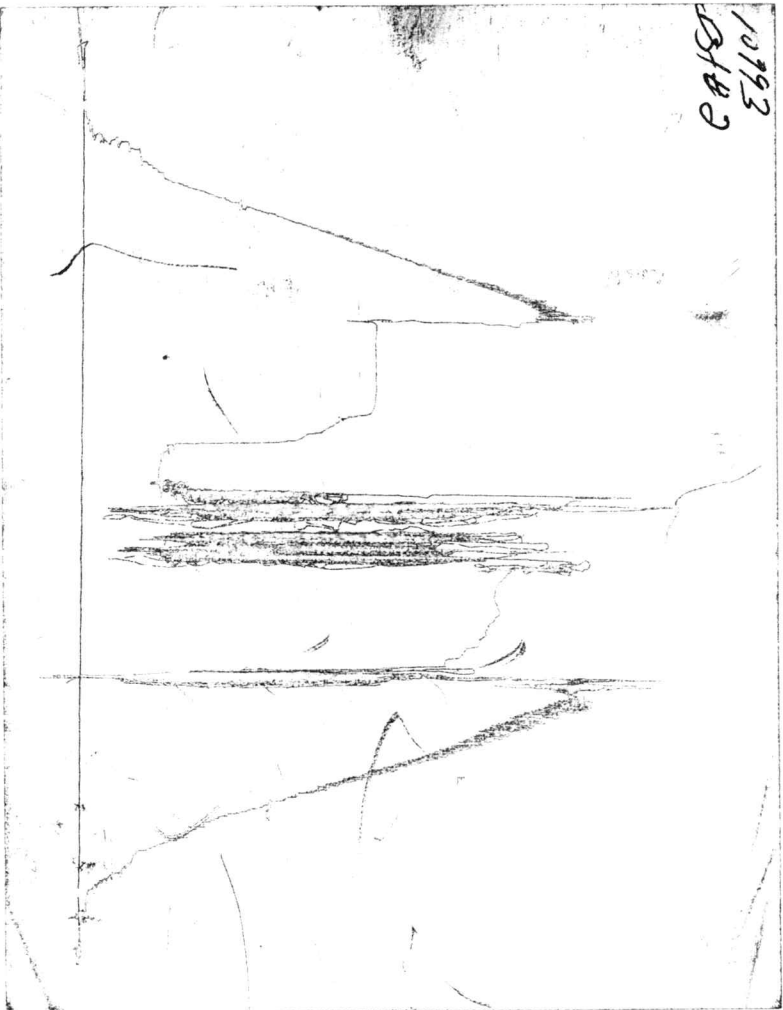


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Oxy Usa Inc.

DATE 6-27-99

WELL NAME: MLP Caverns "A" #3

KB 3102.00 ft

TICKET NO: 12165 DST #2

LOCATION : 31-31S-38W Stevens co KS

GR 3092.00 ft

FORMATION: Lower Morrow

INTERVAL : 5696.00 To 5708.00 ft

TD 5708.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10993	10993	3227			PF Fr. 0432 to 0502 hr
SI 60 Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0	IS Fr. 0502 to 0602 hr
SF 60 Clock(hrs)	12HR.	12HR.	Elet.			SF Fr. 0602 to 0722 hr
FS 90 Depth(ft)	5704.0	5704.0	5696.0	0.0	0.0	FS Fr. 0722 to 0852 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2690.0	0.0	0.0	T STARTED 0130 hr
B. First Flow	0.0	0.0	291.0	0.0	0.0	T ON BOTM 0421 hr
B1. Final Flow	0.0	0.0	2249.0	0.0	0.0	T OPEN 0432 hr
C. In Shut-in	0.0	0.0	2421.0	0.0	0.0	T PULLED 0852 hr
D. Init Flow	0.0	0.0	461.0	0.0	0.0	T OUT 1315 hr
E. Final Flow	0.0	0.0	444.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1662.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2658.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 40000.00 lbs
						Wt Pulled Loose 125000.00 lbs
						Initial Str Wt 82000.00 lbs
						Unseated Str Wt 84000.00 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 593.00 ft
						D.P. Length 5077.00 ft

RECOVERY

Tot Fluid 925.00 ft of 595.00 ft in DC and 330.00 ft in DP
 925.00 ft of Gassy Mud 20% gas 80% mud
 0.00 ft of
 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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 1 min
 Initial Shut-in:
 Bled off blow no blow back
 Final Flow:
 No blow
 bottom of bucket in 7 mins. lost
 packer seat bled off got packer
 seat again 2ft. lower gas to surface
 in 42 mins. to weak to gauge gas will
 burn

SAMPLES: Yes 1

SENT TO:Caraway Lab Liberal.

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/cf
Vis.	66.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	150.0 ft
Amt. of fill	8.00 ft
Btm. H. Temp.	128.00 F
Hole Condition	Rough
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike Colantonio
Co. Rep.	Cal Wylie
Contr.	Cheyenne
Rig #	2
Unit #	
Pump T.	

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: MLP Cavners "A" #3

LOCATION : 31-31S-38W

WELL No. 12164 D.S.T. No. 1 DATE 6-26-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 12

TOTAL TOOL 42

WELL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY

C. ABOVE TOOLS.Stands10 Single Total 593

P. ABOVE TOOLS.Stands81 Single 1 Total 5077

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5712

TOTAL DEPTH 5708

TOTAL DRILL PIPE ABOVE K.B. 4FT

MARKS:

SAMPLER DATA

00ml Mud

00PSI

00ml Total

P.O. SUB Top tool	5666
C.O. SUB 1ft	5667
S.I. " Sterling	5672
3ft Sampler	5675
HMV Sterling	5680
JARS Sterling	5685
SAFETY JOINT Bowens	5687
PACKER 5ft	5691
PACKER 5ft	5696
DEPTH	
STUBB 1ft	5697
ANCHOR	
Alpine Rec.	5696
7ft Perf	5703
AK-1 Rec.	5704
BULLNOSE	
T.D. 4ft Bullplug	5708

TEST HISTORY

12165 DST #2 MLP Caverns "A" #3 OXY USA INC.

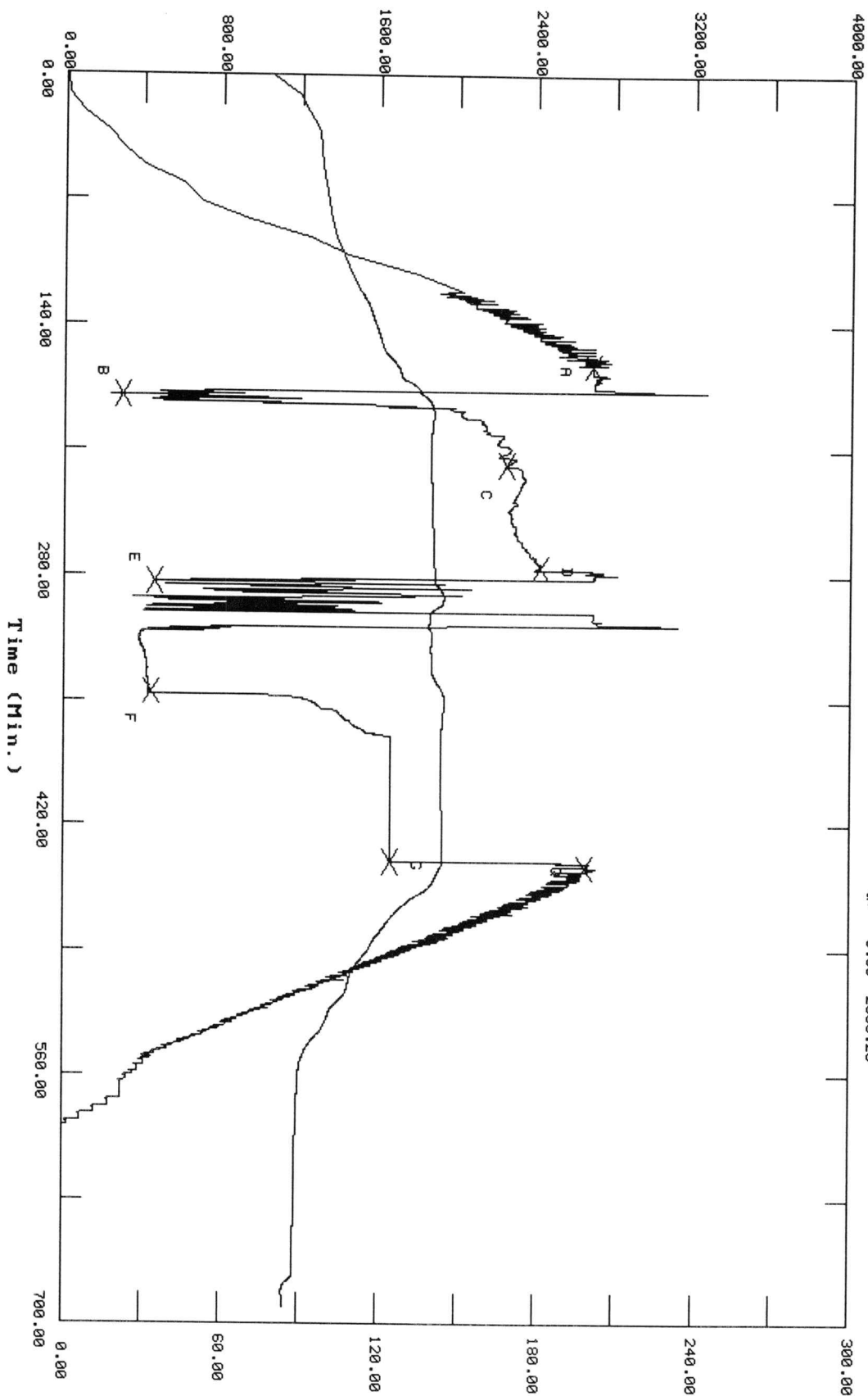
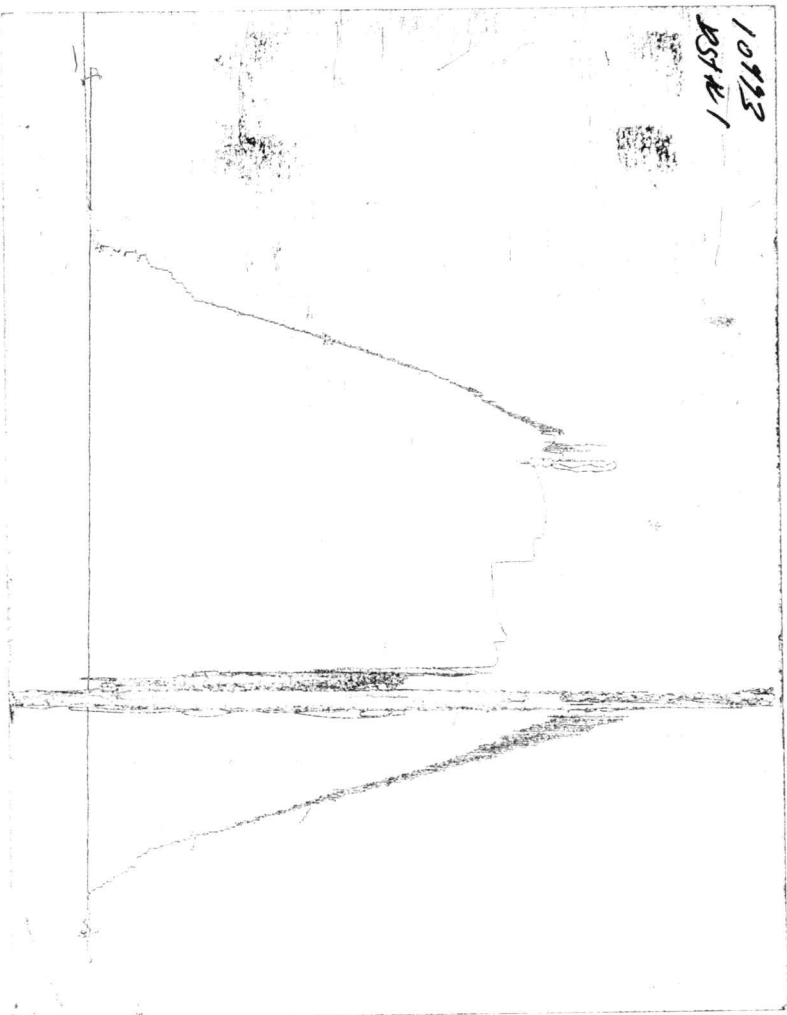


CHART PAGE



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