

Well Name: #1-2 LEGLEITER

Company : LIBOC INC

Location - Sec: 2

Twp: 16S

Rge: 18W

County: RUSH

State: KS

Date: 12/12/95

TRILOBITE TESTING L.L.C.

OPERATOR : Liboc Inc.

DATE 12-11-95

WELL NAME: #1-2 Legleiter

KB 2012.00 ft

TICKET NO: 8668

DST #1

LOCATION : 2-16S-18W, Rush Cty KS

GR 2003.00 ft

FORMATION: Toronto "A-C"

INTERVAL : 3238.00 To 3320.00 ft

TD 3320.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	24174	24174	2342			PF Fr. 0127 to 0142 hr
SI 15 Range(Psi)	3050.0	3050.0	4995.0	0.0	0.0	IS Fr. 0142 to 0157 hr
SF 30 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 0157 to 0227 hr
FS 30 Depth(ft)	3304.0	3304.0	3240.0	0.0	0.0	FS Fr. 0227 to 0257 hr

	Field	1	2	3	4	
A. Init Hydro	1628.0	1630.0	1615.0	0.0	0.0	T STARTED 0015 hr
B. First Flow	30.0	52.0	19.0	0.0	0.0	T ON BOTM 0125 hr
B1. Final Flow	30.0	52.0	21.0	0.0	0.0	T OPEN 0127 hr
C. In Shut-in	52.0	63.0	82.0	0.0	0.0	T PULLED 0257 hr
D. Init Flow	30.0	45.0	21.0	0.0	0.0	T OUT 0348 hr
E. Final Flow	30.0	44.0	23.0	0.0	0.0	
F. Fl Shut-in	52.0	67.0	79.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1620.0	1606.0	1599.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 49000.00 lbs
						Initial Str Wt 49000.00 lbs
						Unseated Str Wt 49000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 0.00 in
						D.C. Length 3.80 ft
						D.P. Length 3225.00 ft

RECOVERY

Tot Fluid 20.00 ft of 0.00 ft in DC and 20.00 ft in DP
 30.00 ft of Gas in pipe
 20.00 ft of Mud

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

BLOW DESCRIPTION

Initial Flow -
 Weak .5" blow building to 1.5"

Initial Shutin -
 No blow

Final Flow -
 1.5" blow, stabilized throughout opening

Final Shutin -
 No blow

SAMPLES: none taken
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	47.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	92.00 F
Hole Condition	good
% 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	Paul Simpson
Co. Rep.	Jeff Zoller
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

TEST HISTORY

8668 Liboc Inc. Legleiter #1-2 DST #1

Flag Points

t<Min.> P<PSig>

A:	0.00	1614.59
B:	0.00	18.88
C:	16.00	20.89
D:	14.00	81.82
E:	0.00	20.81
F:	29.00	23.07
G:	28.00	78.63
Q:	0.00	1599.49

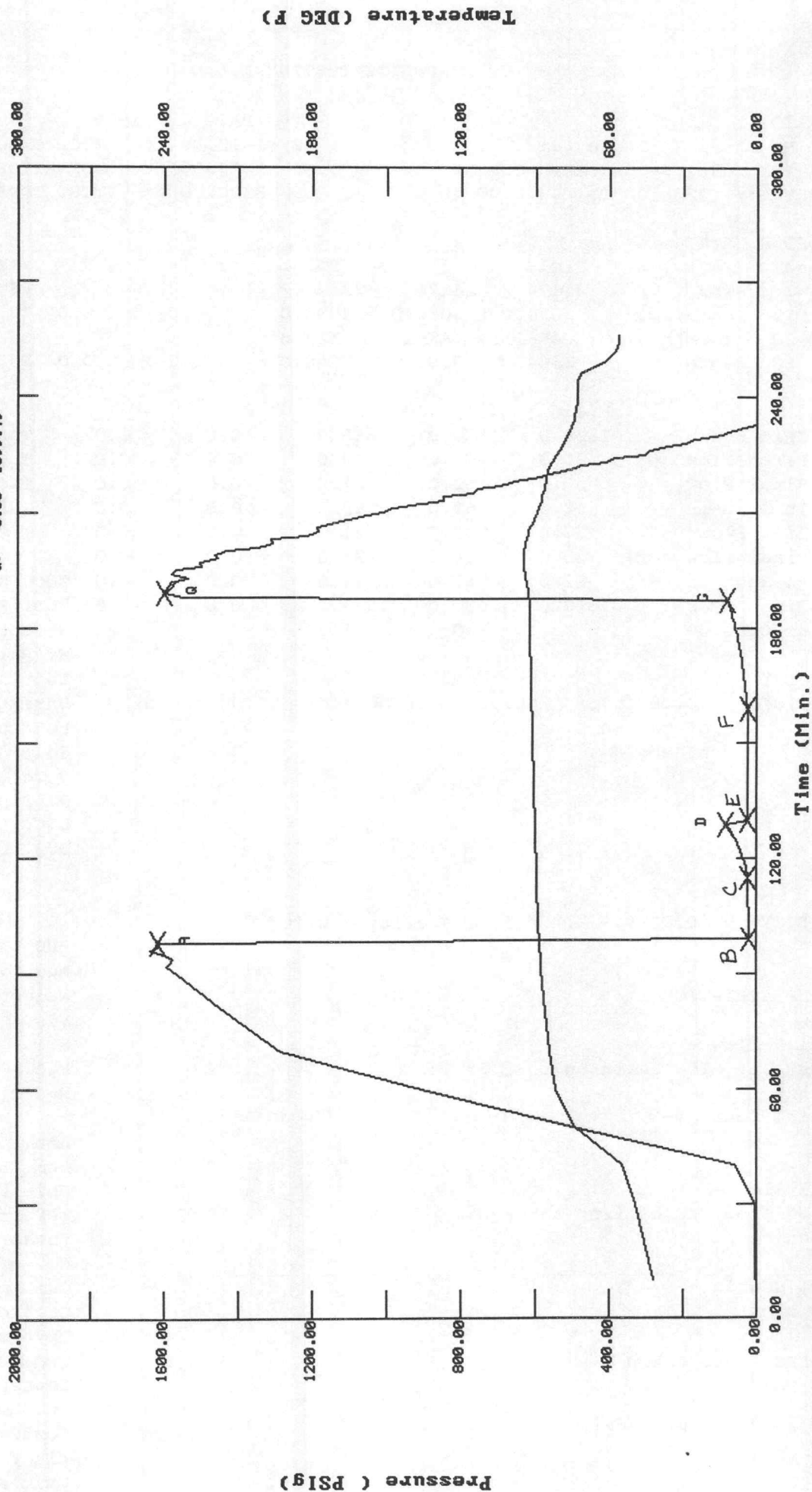
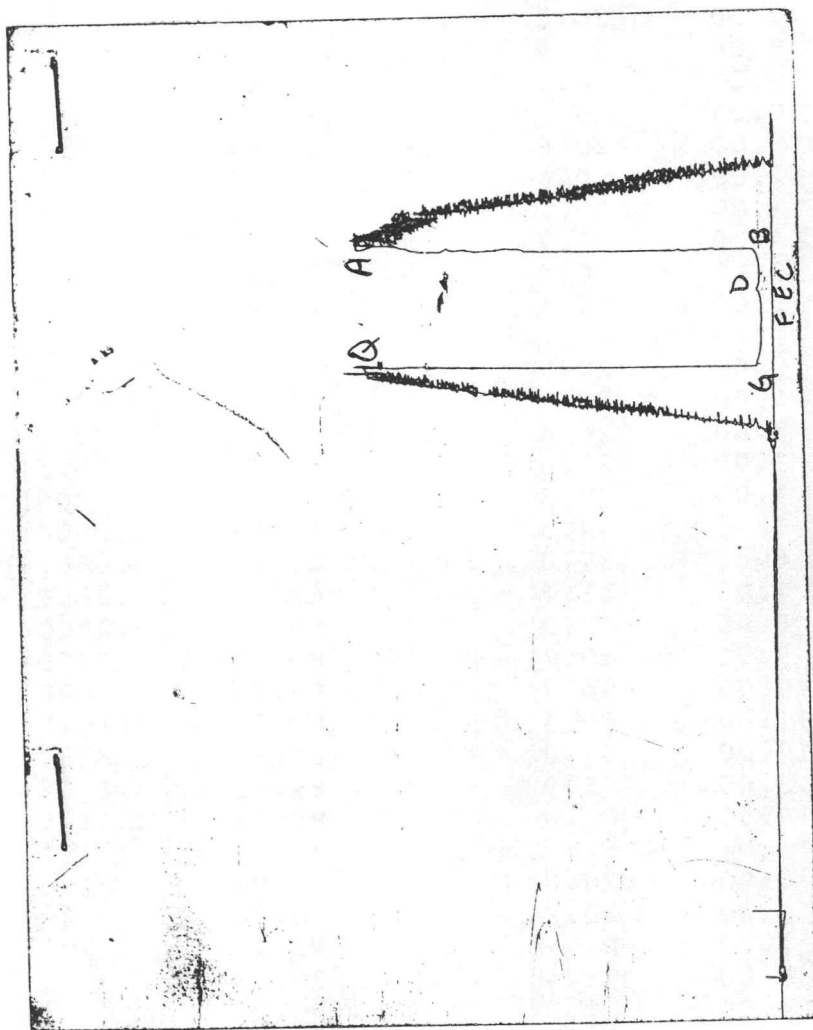


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8668 Liboc Inc. Legleiter #1-2 DST #1

DATE: 12/10/95

TIME: 23:48:13

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	98.00	1614.6	0.0	88.17		
***** Start Flow 1	0.00	18.9	0.0	88.24		
	1.00	19.5	0.6	88.34		
	2.00	19.7	0.8	88.45		
	3.00	19.8	0.9	88.55		
	4.00	19.9	1.0	88.64		
	5.00	20.1	1.2	88.71		
	6.00	20.1	1.3	88.78		
	7.00	20.3	1.4	88.84		
	8.00	20.4	1.5	88.90		
	9.00	20.5	1.6	88.94		
	10.00	20.5	1.6	88.99		
	11.00	20.6	1.8	89.04		
	12.00	20.6	1.8	89.08		
	13.00	20.7	1.8	89.13		
	14.00	20.7	1.8	89.17		
	15.00	20.9	2.0	89.22		
***** End Flow 1	16.00	20.9	2.0	89.27		
***** Start Shutin 1	0.00	20.9	0.0	89.27	0.0000	0.000
	1.00	22.1	1.2	89.31	17.0000	0.000
	2.00	24.8	3.9	89.36	9.0000	0.001
	3.00	27.4	6.5	89.41	6.3333	0.001
	4.00	30.3	9.4	89.46	5.0000	0.001
	5.00	33.5	12.6	89.51	4.2000	0.001
	6.00	37.0	16.1	89.55	3.6667	0.001
	7.00	41.0	20.1	89.60	3.2857	0.002
	8.00	45.2	24.3	89.66	3.0000	0.002
	9.00	49.8	29.0	89.71	2.7778	0.002
	10.00	54.9	34.0	89.76	2.6000	0.003
	11.00	60.6	39.7	89.82	2.4545	0.004
	12.00	67.0	46.1	89.87	2.3333	0.004
	13.00	73.9	53.0	89.92	2.2308	0.005
***** End Shut-in 1	14.00	81.8	60.9	89.97	2.1429	0.007
***** Start Flow 2	0.00	20.8	0.0	90.02		
	1.00	21.2	0.4	90.08		
	2.00	21.4	0.6	90.13		
	3.00	21.4	0.6	90.18		
	4.00	21.5	0.7	90.23		
	5.00	21.6	0.8	90.28		
	6.00	21.6	0.8	90.33		
	7.00	21.8	1.0	90.38		
	8.00	21.8	1.0	90.43		
	9.00	22.0	1.2	90.48		
	10.00	22.0	1.2	90.53		
	11.00	21.9	1.1	90.58		
	12.00	22.1	1.3	90.63		
	13.00	22.1	1.3	90.67		
	14.00	22.2	1.4	90.72		
	15.00	22.3	1.5	90.77		
	16.00	22.4	1.6	90.82		
	17.00	22.4	1.6	90.87		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8668 Liboc Inc. Legleiter #1-2 DST #1

DATE: 12/10/95

TIME: 23:48:13

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	22.4	1.6	90.92		
	19.00	22.4	1.6	90.97		
	20.00	22.4	1.6	91.01		
	21.00	22.7	1.8	91.06		
	22.00	22.6	1.8	91.11		
	23.00	22.8	2.0	91.15		
	24.00	22.8	2.0	91.19		
	25.00	22.7	1.9	91.24		
	26.00	23.0	2.2	91.28		
	27.00	23.2	2.4	91.33		
***** End Flow 2	28.00	23.0	2.2	91.37		
	29.00	23.1	2.3	91.42		
***** Start Shutin 2	0.00	23.1	0.0	91.42	0.0000	0.001
	1.00	24.2	1.1	91.46	46.0000	0.001
	2.00	25.3	2.2	91.50	23.5000	0.001
	3.00	26.4	3.4	91.55	16.0000	0.001
	4.00	27.6	4.5	91.59	12.2500	0.001
	5.00	28.8	5.7	91.63	10.0000	0.001
	6.00	30.0	7.0	91.68	8.5000	0.001
	7.00	31.4	8.3	91.72	7.4286	0.001
	8.00	32.8	9.7	91.76	6.6250	0.001
	9.00	34.2	11.2	91.80	6.0000	0.001
	10.00	35.7	12.6	91.83	5.5000	0.001
	11.00	37.2	14.1	91.88	5.0909	0.001
	12.00	38.7	15.6	91.92	4.7500	0.001
	13.00	40.4	17.3	91.96	4.4615	0.002
	14.00	42.1	19.1	92.00	4.2143	0.002
	15.00	43.9	20.8	92.04	4.0000	0.002
	16.00	45.9	22.8	92.08	3.8125	0.002
	17.00	47.8	24.8	92.11	3.6471	0.002
	18.00	50.0	26.9	92.16	3.5000	0.003
	19.00	52.3	29.2	92.20	3.3684	0.003
	20.00	54.4	31.3	92.24	3.2500	0.003
	21.00	56.9	33.8	92.28	3.1429	0.003
	22.00	59.4	36.3	92.31	3.0455	0.004
	23.00	62.3	39.2	92.35	2.9565	0.004
	24.00	65.1	42.0	92.38	2.8750	0.004
	25.00	68.3	45.2	92.42	2.8000	0.005
	26.00	71.7	48.6	92.46	2.7308	0.005
***** End Shut-in 2	27.00	75.1	52.0	92.49	2.6667	0.006
	28.00	78.6	55.6	92.53	2.6071	0.006
***** Final Hydro.	189.00	1599.5	0.0	92.76		

P.O.	SUB	
C.O.	SUB changeover sub	3218
S.I.	TOOL Shutin tool	3224
HMV	Hydraulic tool	3229
JARS	n/a	
SAFETY JOINT	n/a	
PACKER	Top Packer	3233
PACKER	Bottom Packer	3238
DEPTH	3238	
STUBB	3239	
ANCHOR		
	1' perf	3240
	Alpine recorder	3240
	1 std drill pipe	
	&	
	subs to	3304
T.C.		
DEPTH		
	5' perf	3309
	AK-1 recorder	3309
	5' perf	3314
	3' perf	3317
BULLNOSE	3' bull plug	
T.D.		3320

REMARKS:

TRILOBITE TESTING L.L.C.

OPERATOR : Liboc Inc.

DATE 12-11-95

WELL NAME: #1-2 Legleiter

KB 2012.00 ft

TICKET NO: 8669

DST #2

LOCATION : 02-16S-18W, Rush Cty KS

GR 2003.00 ft

FORMATION: Kansas City D-E

INTERVAL : 3323.00 To 3377.00 ft

TD 3377.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	24174	24174	2342			PF Fr. 1327 to 1412 hr
SI 45 Range(Psi)	3050.0	3050.0	4995.0	0.0	0.0	IS Fr. 1412 to 1457 hr
SF 60 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 1457 to 1557 hr
FS 60 Depth(ft)	3363.0	3363.0	3325.0	0.0	0.0	FS Fr. 1557 to 1657 hr

	Field	1	2	3	4	
A. Init Hydro	1704.0	1677.0	1668.0	0.0	0.0	T STARTED 1235 hr
B. First Flow	59.0	59.0	27.0	0.0	0.0	T ON BOTM 1325 hr
B1. Final Flow	89.0	89.0	101.0	0.0	0.0	T OPEN 1327 hr
C. In Shut-in	857.0	806.0	836.0	0.0	0.0	T PULLED 1657 hr
D. Init Flow	134.0	134.0	107.0	0.0	0.0	T OUT 1812 hr
E. Final Flow	172.0	160.0	169.0	0.0	0.0	
F. Fl Shut-in	720.0	717.0	745.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1681.0	1666.0	1638.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 54000.00 lbs
						Initial Str Wt 49000.00 lbs
						Unseated Str Wt 50000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3316.00 ft

RECOVERY

Tot Fluid 300.00 ft of 0.00 ft in DC and 300.00 ft in DP
 200.00 ft of Gas in pipe
 180.00 ft of Heavy mud with oil spots
 120.00 ft of Watery mud - 30% water, 70% mud

RW .25 @ 42 F

SALINITY 55000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
 1" blow building to bottom of bucket
 in 17 minutes

Initial Shutin -
 Weak surface blow

Final Flow -
 1" blow building to bottom of bucket
 in 25 min

Final Shutin -
 No blow

SAMPLES: none taken
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/
Vis.	46.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	103.00 F
Hole Condition	good
% 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	Paul Simpson
Co. Rep.	Jeff Zoller
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

TEST HISTORY

8669 Libco Inc. Legleiter #1-2 DST #2

Flag Points

t (Min.) P (PSig)

A: 0.00 1668.14
 B: 0.00 27.02
 C: 43.00 101.38
 D: 48.00 835.83
 E: 0.00 107.17
 F: 57.00 169.19
 G: 60.00 745.10
 Q: 0.00 1638.28

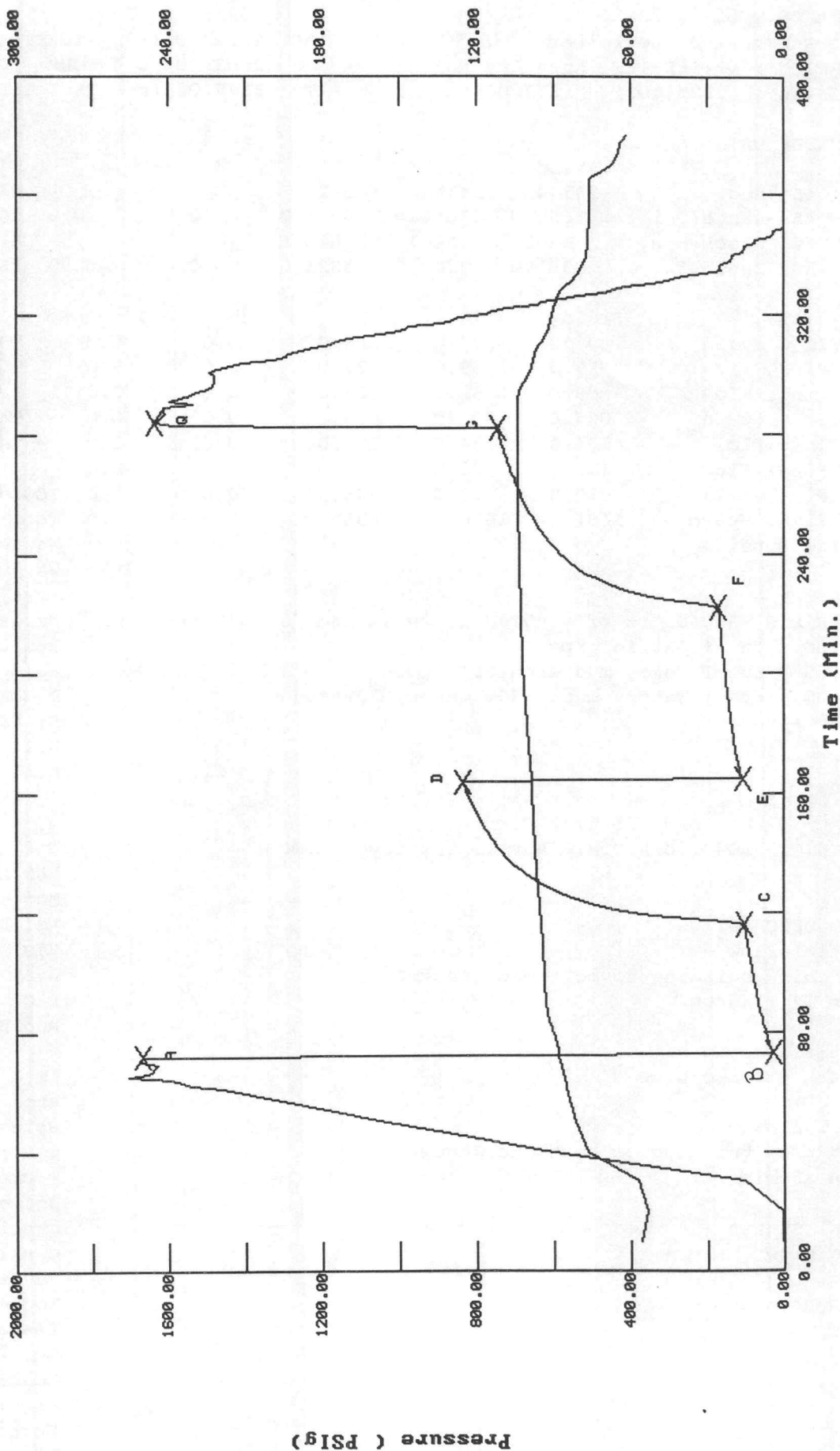
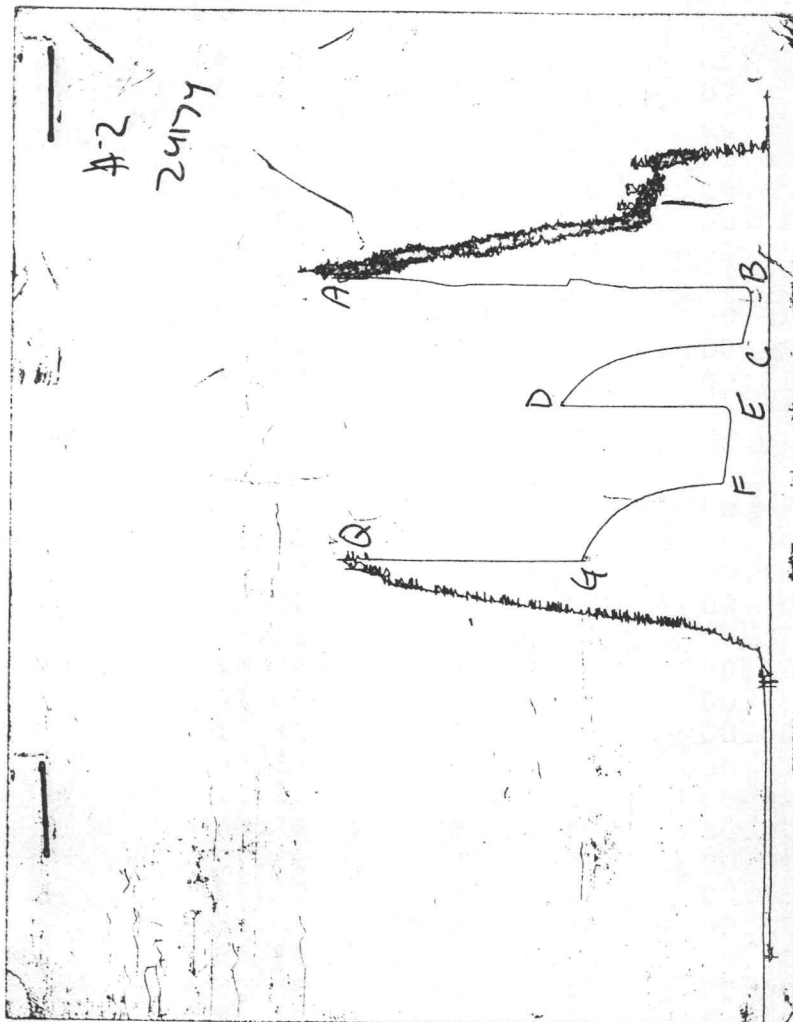


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8669 Liboc Inc. Legleiter #1-2 DST #2

DATE: 12/11/95

TIME: 12:16:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	72.00	1668.1	0.0	87.80		
***** Start Flow 1	0.00	27.0	0.0	87.94		
	1.00	29.6	2.6	88.09		
	2.00	33.3	6.3	88.24		
	3.00	37.1	10.1	88.45		
	4.00	37.9	10.9	88.73		
	5.00	41.1	14.1	89.08		
	6.00	44.2	17.2	89.46		
	7.00	47.3	20.3	89.84		
	8.00	48.4	21.4	90.22		
	9.00	50.8	23.8	90.62		
	10.00	52.9	25.8	91.07		
	11.00	54.4	27.4	91.48		
	12.00	55.8	28.8	91.83		
	13.00	59.1	32.1	92.12		
	14.00	60.9	33.9	92.34		
	15.00	63.1	36.1	92.54		
	16.00	65.1	38.1	92.70		
	17.00	66.6	39.6	92.84		
	18.00	67.9	40.9	92.95		
	19.00	69.4	42.4	93.06		
	20.00	71.0	44.0	93.14		
	21.00	72.4	45.4	93.22		
	22.00	73.8	46.7	93.28		
	23.00	75.5	48.5	93.35		
	24.00	76.7	49.7	93.41		
	25.00	78.8	51.8	93.46		
	26.00	80.1	53.1	93.51		
	27.00	81.7	54.6	93.56		
	28.00	83.0	56.0	93.61		
	29.00	84.4	57.4	93.66		
	30.00	85.7	58.7	93.72		
	31.00	87.0	60.0	93.77		
	32.00	88.3	61.3	93.83		
	33.00	89.5	62.5	93.89		
	34.00	91.0	64.0	93.95		
	35.00	92.2	65.2	94.01		
	36.00	93.9	66.9	94.08		
	37.00	95.1	68.1	94.15		
	38.00	96.2	69.2	94.22		
	39.00	97.4	70.4	94.30		
	40.00	98.7	71.7	94.38		
	41.00	99.8	72.8	94.45		
	42.00	100.8	73.8	94.53		
***** End Flow 1	43.00	101.4	74.4	94.62		
***** Start Shutin 1	0.00	101.4	0.0	94.62	0.0000	0.010
	1.00	148.0	46.7	94.70	44.0000	0.022
	2.00	247.7	146.3	94.80	22.5000	0.061
	3.00	338.6	237.3	94.89	15.3333	0.115
	4.00	395.0	293.7	94.99	11.7500	0.156
	5.00	438.5	337.1	95.09	9.6000	0.192

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8669 Liboc Inc. Legleiter #1-2 DST #2

DATE: 12/11/95

TIME: 12:16:40

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
6.00	473.2	371.8	95.19	8.1667	0.224
7.00	502.6	401.2	95.30	7.1429	0.253
8.00	528.2	426.9	95.41	6.3750	0.279
9.00	550.9	449.5	95.51	5.7778	0.303
10.00	571.3	469.9	95.61	5.3000	0.326
11.00	589.8	488.5	95.72	4.9091	0.348
12.00	606.4	505.0	95.82	4.5833	0.368
13.00	621.6	520.2	95.92	4.3077	0.386
14.00	635.4	534.0	96.03	4.0714	0.404
15.00	648.2	546.8	96.12	3.8667	0.420
16.00	659.8	558.5	96.22	3.6875	0.435
17.00	670.7	569.4	96.31	3.5294	0.450
18.00	680.7	579.4	96.40	3.3889	0.463
19.00	690.1	588.8	96.49	3.2632	0.476
20.00	698.9	597.5	96.59	3.1500	0.488
21.00	707.0	605.6	96.67	3.0476	0.500
22.00	714.7	613.3	96.75	2.9545	0.511
23.00	722.0	620.6	96.83	2.8696	0.521
24.00	728.9	627.5	96.91	2.7917	0.531
25.00	735.5	634.1	96.99	2.7200	0.541
26.00	741.7	640.3	97.07	2.6538	0.550
27.00	747.5	646.2	97.14	2.5926	0.559
28.00	753.3	652.0	97.21	2.5357	0.568
29.00	758.7	657.3	97.28	2.4828	0.576
30.00	764.0	662.6	97.36	2.4333	0.584
31.00	769.1	667.7	97.42	2.3871	0.592
32.00	774.0	672.6	97.49	2.3438	0.599
33.00	778.8	677.4	97.55	2.3030	0.606
34.00	783.4	682.0	97.61	2.2647	0.614
35.00	787.8	686.4	97.67	2.2286	0.621
36.00	792.1	690.7	97.76	2.1944	0.627
37.00	796.3	694.9	97.79	2.1622	0.634
38.00	800.4	699.0	97.85	2.1316	0.641
39.00	804.4	703.0	97.90	2.1026	0.647
40.00	808.2	706.8	97.95	2.0750	0.653
41.00	812.0	710.6	98.00	2.0488	0.659
42.00	815.7	714.3	98.05	2.0238	0.665
43.00	819.2	717.8	98.11	2.0000	0.671
44.00	822.7	721.4	98.16	1.9773	0.677
45.00	826.1	724.7	98.21	1.9556	0.682
46.00	829.5	728.1	98.25	1.9348	0.688
47.00	832.6	731.3	98.30	1.9149	0.693
48.00	835.8	734.5	98.34	1.8958	0.699
***** End Shut-in 1					
***** Start Flow 2					
0.00	107.2	0.0	98.36		
1.00	109.8	2.6	98.42		
2.00	112.8	5.6	98.51		
3.00	114.9	7.7	98.62		
4.00	116.5	9.3	98.74		
5.00	118.2	11.1	98.85		
6.00	120.2	13.0	98.95		
7.00	121.6	14.4	99.06		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8669 Liboc Inc. Legleiter #1-2 DST #2

DATE: 12/11/95

TIME: 12:16:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	8.00	123.4	16.3	99.16		
	9.00	124.9	17.7	99.26		
	10.00	126.1	18.9	99.35		
	11.00	127.4	20.2	99.45		
	12.00	128.7	21.5	99.54		
	13.00	129.9	22.7	99.63		
	14.00	131.1	23.9	99.71		
	15.00	132.3	25.2	99.81		
	16.00	133.5	26.4	99.89		
	17.00	134.6	27.4	99.99		
	18.00	135.7	28.5	100.08		
	19.00	137.1	30.0	100.17		
	20.00	138.3	31.1	100.27		
	21.00	139.1	32.0	100.37		
	22.00	140.3	33.2	100.47		
	23.00	141.4	34.2	100.56		
	24.00	142.4	35.2	100.66		
	25.00	143.3	36.1	100.75		
	26.00	144.3	37.2	100.85		
	27.00	145.1	37.9	100.94		
	28.00	146.1	38.9	101.03		
	29.00	147.0	39.9	101.11		
	30.00	148.0	40.8	101.21		
	31.00	148.8	41.6	101.29		
	32.00	149.7	42.6	101.37		
	33.00	150.5	43.3	101.45		
	34.00	151.3	44.1	101.53		
	35.00	152.4	45.2	101.61		
	36.00	153.3	46.2	101.68		
	37.00	154.3	47.1	101.75		
	38.00	155.2	48.0	101.82		
	39.00	155.9	48.8	101.88		
	40.00	156.6	49.4	101.93		
	41.00	157.6	50.4	101.97		
	42.00	158.4	51.3	102.02		
	43.00	159.2	52.0	102.05		
	44.00	160.0	52.8	102.08		
	45.00	160.7	53.5	102.11		
	46.00	161.6	54.4	102.14		
	47.00	162.3	55.1	102.17		
	48.00	163.1	56.0	102.20		
	49.00	163.7	56.5	102.23		
	50.00	164.4	57.2	102.26		
	51.00	165.2	58.0	102.28		
	52.00	165.9	58.7	102.32		
	53.00	166.5	59.3	102.35		
	54.00	167.5	60.3	102.38		
	55.00	168.4	61.3	102.41		
	56.00	169.1	61.9	102.45		
*****	End Flow 2	57.00	169.2	62.0	102.49	
*****	Start Shutin 2	0.00	169.2	0.0	102.49	0.0000 0.029

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8669 Liboc Inc. Legleiter #1-2 DST #2

DATE: 12/11/95

TIME: 12:16:40

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
1.00	207.8	38.6	102.52	101.0000	0.043
2.00	271.7	102.5	102.55	51.0000	0.074
3.00	325.5	156.3	102.61	34.3333	0.106
4.00	366.0	196.8	102.65	26.0000	0.134
5.00	397.4	228.2	102.71	21.0000	0.158
6.00	423.1	253.9	102.76	17.6667	0.179
7.00	444.9	275.7	102.81	15.2857	0.198
8.00	464.0	294.8	102.86	13.5000	0.215
9.00	480.8	311.6	102.91	12.1111	0.231
10.00	496.1	326.9	102.96	11.0000	0.246
11.00	509.8	340.6	103.00	10.0909	0.260
12.00	522.4	353.3	103.05	9.3333	0.273
13.00	533.9	364.8	103.08	8.6923	0.285
14.00	544.8	375.6	103.12	8.1429	0.297
15.00	554.8	385.6	103.15	7.6667	0.308
16.00	564.2	395.0	103.19	7.2500	0.318
17.00	573.0	403.8	103.21	6.8824	0.328
18.00	581.2	412.0	103.24	6.5556	0.338
19.00	589.0	419.8	103.27	6.2632	0.347
20.00	596.4	427.2	103.29	6.0000	0.356
21.00	603.3	434.1	103.32	5.7619	0.364
22.00	609.9	440.7	103.34	5.5455	0.372
23.00	616.2	447.0	103.36	5.3478	0.380
24.00	622.2	453.0	103.37	5.1667	0.387
25.00	628.0	458.8	103.39	5.0000	0.394
26.00	633.4	464.2	103.41	4.8462	0.401
27.00	638.6	469.4	103.45	4.7037	0.408
28.00	643.6	474.4	103.43	4.5714	0.414
29.00	648.5	479.3	103.45	4.4483	0.421
30.00	653.0	483.8	103.46	4.3333	0.426
31.00	657.6	488.4	103.48	4.2258	0.432
32.00	661.8	492.7	103.50	4.1250	0.438
33.00	666.0	496.8	103.50	4.0303	0.444
34.00	670.1	500.9	103.50	3.9412	0.449
35.00	673.8	504.7	103.52	3.8571	0.454
36.00	677.6	508.4	103.52	3.7778	0.459
37.00	681.3	512.1	103.53	3.7027	0.464
38.00	684.8	515.7	103.54	3.6316	0.469
39.00	688.4	519.2	103.55	3.5641	0.474
40.00	691.6	522.5	103.55	3.5000	0.478
41.00	694.9	525.7	103.56	3.4390	0.483
42.00	698.0	528.8	103.57	3.3810	0.487
43.00	701.2	532.0	103.56	3.3256	0.492
44.00	704.2	535.0	103.57	3.2727	0.496
45.00	707.2	538.0	103.57	3.2222	0.500
46.00	710.1	540.9	103.58	3.1739	0.504
47.00	712.9	543.7	103.58	3.1277	0.508
48.00	715.6	546.5	103.58	3.0833	0.512
49.00	718.3	549.1	103.59	3.0408	0.516
50.00	721.0	551.8	103.59	3.0000	0.520
51.00	723.6	554.4	103.62	2.9608	0.524

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8669 Liboc Inc. Legleiter #1-2 DST #2

DATE: 12/11/95

TIME: 12:16:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	52.00	726.2	557.0	103.59	2.9231	0.527
	53.00	728.7	559.5	103.58	2.8868	0.531
	54.00	731.1	561.9	103.59	2.8519	0.534
	55.00	733.6	564.4	103.59	2.8182	0.538
	56.00	736.0	566.8	103.59	2.7857	0.542
	57.00	738.3	569.1	103.59	2.7544	0.545
	58.00	740.6	571.4	103.59	2.7241	0.548
	59.00	742.8	573.6	103.60	2.6949	0.552
***** End Shut-in 2	60.00	745.1	575.9	103.60	2.6667	0.555
***** Final Hydro.	284.00	1638.3	0.0	103.65		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: #1-2 Legleiter

LOCATION : 02-16S-18W, Rush Cty KS

TICKET No. 8669 D.S.T. No. 2 DATE 12-11-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 43

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single 1 Total 31

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 74

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands53 Single 1 Total 3316

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3390

TOTAL DEPTH 3377

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

P.O. SUB	
C.O. SUB changeover sub	3303
S.I. TOOL Shutin tool	3309
HMV Hydraulic tool	3314
JARS n/a	
SAFETY JOINT n/a	
PACKER Top Packer	3318
PACKER Bottom Packer	3323
DEPTH 3323	
STUBB 3324	
ANCHOR	
1' perf	3325
Alpine recorder	3325
1 jt drill pipe & subs to	3358
T.C. DEPTH	
5' perf	3363
AK-1 recorder	3363
5' perf	3368
4' perf	3372
2' perf	3374
BULLNOSE 3' bull plug	
T.D.	3377

TRILOBITE TESTING L.L.C.

OPERATOR : Liboc Inc.

DATE 12-12-95

WELL NAME: #1-2 Legleiter

KB 2012.00 ft

TICKET NO: 8670

DST #3

LOCATION : 02-16S-18W, Rush Cty KS

GR 2003.00 ft

FORMATION: Upper Penn Sand

INTERVAL : 3564.00 To 3580.00 ft

TD 3580.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	24174	24174	2342			PF Fr. 1341 to 1411 hr
SI 30 Range(Psi)	3050.0	3050.0	4995.0	0.0	0.0	IS Fr. 1411 to 1441 hr
SF 6 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 1441 to 1449 hr
FS 45 Depth(ft)	3575.0	3575.0	3567.0	0.0	0.0	FS Fr. 1449 to 1534 hr

	Field	1	2	3	4	
A. Init Hydro	1842.0	1836.0	1835.0	0.0	0.0	T STARTED 1145 hr
B. First Flow	1039.0	1045.0	1040.0	0.0	0.0	T ON BOTM 1339 hr
B1. Final Flow	1062.0	1070.0	1082.0	0.0	0.0	T OPEN 1341 hr
C. In Shut-in	1152.0	1153.0	1174.0	0.0	0.0	T PULLED 1534 hr
D. Init Flow	1069.0	1077.0	1068.0	0.0	0.0	T OUT 1558 hr
E. Final Flow	1069.0	1077.0	1129.0	0.0	0.0	
F. Fl Shut-in	1152.0	1160.0	1176.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1834.0	1817.0	1800.0	0.0	0.0	Tool Wt. 1500.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 51000.00 lbs
						Unseated Str Wt 52000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3565.00 ft

RECOVERY

Tot Fluid 570.00 ft of 0.00 ft in DC and 570.00 ft in DP
 240.00 ft of Oil cut water - 20% oil, 80% water
 330.00 ft of Oil specked water

RW .28 @ 61 F

SALINITY 28000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -

Very strong, bottom of bucket
 immediately; Gas to surface in 2 min.
 Mist of mud & oil to surface in 10
 minutes.

Initial Shutin -

Good blow throughout

Final Flow -

Strong- gauging gas, shutin early due
 to flow of fluid to surface

Final Shutin -

Good blow throughout

SAMPLES: 2 caught in Initial shutin

SENT TO: Amarillo Texas

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/
Vis.	56.00 S/L
W.L.	8.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 F
Hole Condition	good
% 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	Paul Simpson
Co. Rep.	Jeff Zoller
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

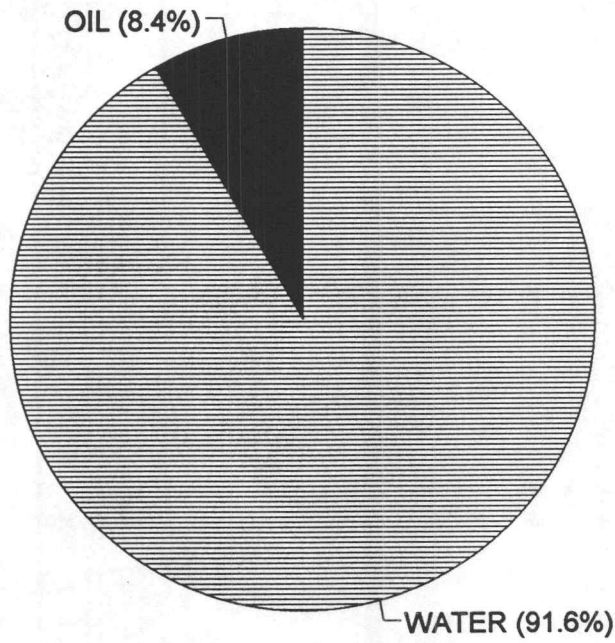
CALCULATED RECOVERY ANALYSIS - DRILL PIPE

DST # 3

TICKET # 8670

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	240		0	20	48	80	192		0
2	330		0		0	100	330		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	570	0.00	0	8.42	48	91.57895	522	0.00	0

			HRS OPE BBL/DAY	
BBL OIL=	0.68256	*	0.60	27.30
BBL WATER=	7.42284	*		296.91
BBL MUD=	0			
BBL GAS	0			



GAS RECOVERY

COMPANY: Liboc Inc.

DATE: 12-12-95

WELL NAME: #1-2 Legleiter

KB Elev: 2012.00 ft TICKET #8670 DST #3

WELL LOCATION: 02-16S-18W, Rush Cty KS

GR Elev: 2003.00 ft FORMATION: Upper Penn Sand

INTERVAL Fr.: 3564.00 To 3580.00 T.D.: 3580.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
4	1.50	15	0	1626000.0
10	1.50	36	0	2916000.0
20	1.50	38	0	3036000.0
25	1.50	38	0	3036000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
6	1.50	40	0	3155000.0

TEST HISTORY

8670 Libco Inc. Legleiter #1-2 DST #3

Flag Points

t(Min.) P(PSig)

A: 0.00 1835.41
 B: 0.00 1040.03
 C: 30.00 1081.57
 D: 30.00 1174.48
 E: 0.00 1068.14
 F: 6.00 1128.74
 G: 47.00 1175.69
 Q: 0.00 1799.82

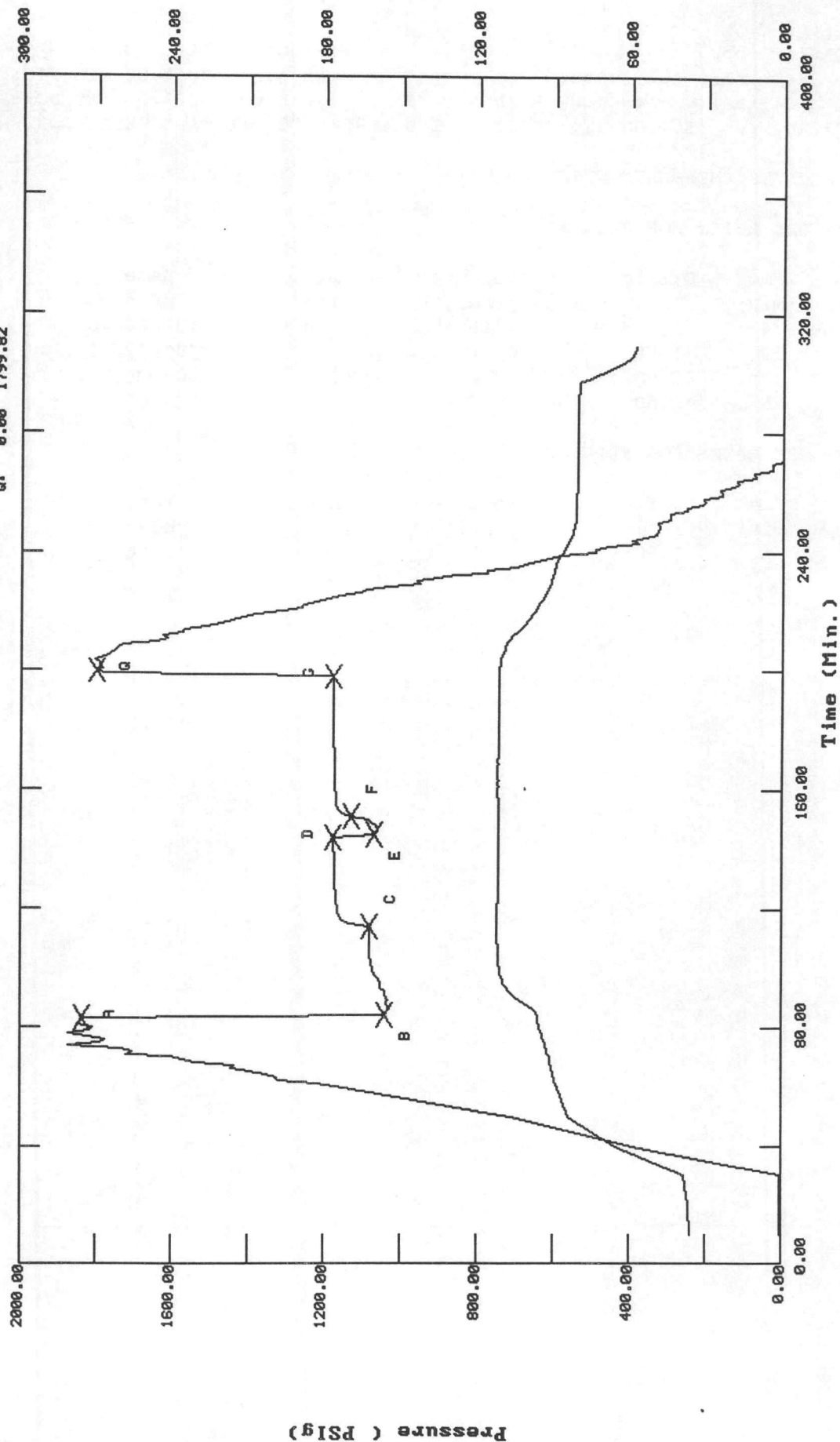
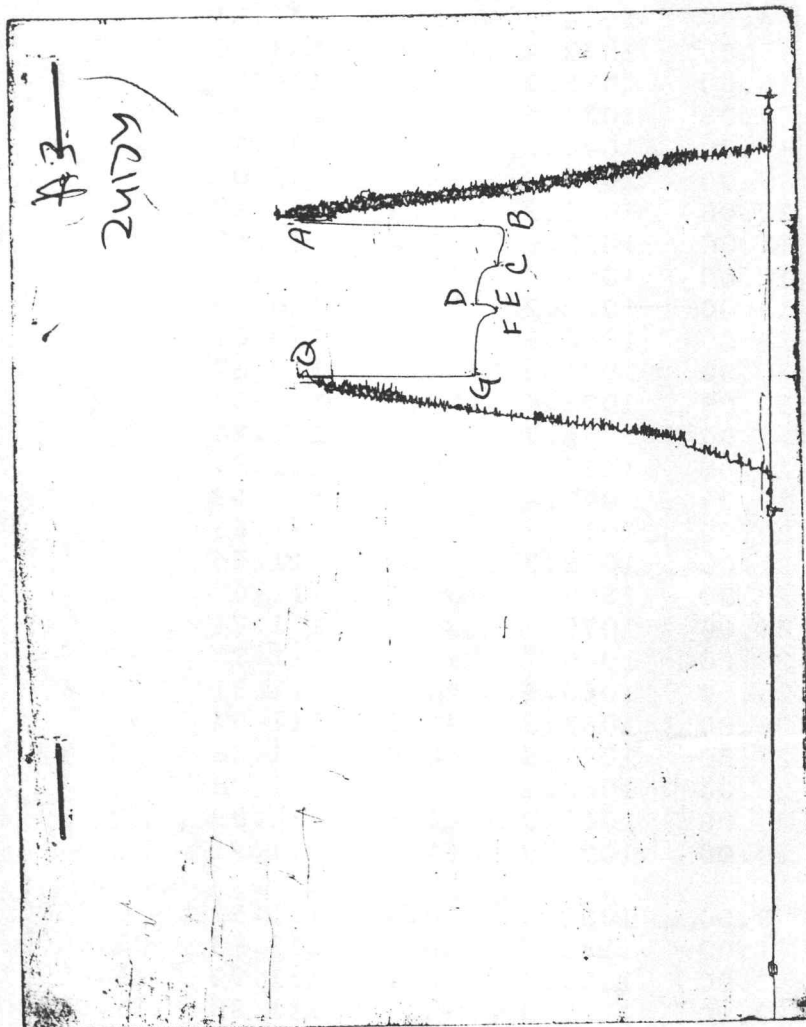


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8670 Liboc Inc. Legleiter #1-2 DST #3

DATE: 12/12/95

TIME: 11:17:02

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	83.00	1835.4	0.0	95.88		
***** Start Flow 1	0.00	1040.0	0.0	96.04		
	1.00	1034.5	-5.5	96.58		
	2.00	1027.9	-12.1	97.88		
	3.00	1032.6	-7.4	99.64		
	4.00	1034.8	-5.2	101.51		
	5.00	1032.4	-7.6	103.26		
	6.00	1036.0	-4.0	104.79		
	7.00	1038.6	-1.4	106.09		
	8.00	1040.1	0.1	107.17		
	9.00	1049.8	9.8	108.08		
	10.00	1051.9	11.9	108.82		
	11.00	1052.0	12.0	109.42		
	12.00	1057.3	17.3	109.90		
	13.00	1062.2	22.2	110.30		
	14.00	1068.1	28.1	110.61		
	15.00	1071.2	31.2	110.87		
	16.00	1073.6	33.6	111.07		
	17.00	1074.7	34.7	111.24		
	18.00	1076.2	36.2	111.37		
	19.00	1077.4	37.3	111.48		
	20.00	1078.1	38.1	111.56		
	21.00	1078.3	38.3	111.64		
	22.00	1079.4	39.4	111.69		
	23.00	1079.7	39.7	111.74		
	24.00	1080.1	40.1	111.78		
	25.00	1080.9	40.9	111.81		
	26.00	1081.3	41.3	111.84		
	27.00	1080.5	40.5	111.86		
	28.00	1080.1	40.0	111.88		
	29.00	1081.8	41.8	111.89		
***** End Flow 1	30.00	1081.6	41.5	111.91		
***** Start Shutin 1	0.00	1081.6	0.0	111.91	0.0000	1.170
	1.00	1131.6	50.0	111.93	31.0000	1.280
	2.00	1150.3	68.7	111.92	16.0000	1.323
	3.00	1157.0	75.5	111.89	11.0000	1.339
	4.00	1160.5	78.9	111.88	8.5000	1.347
	5.00	1162.7	81.2	111.86	7.0000	1.352
	6.00	1164.4	82.8	111.84	6.0000	1.356
	7.00	1165.6	84.0	111.81	5.2857	1.359
	8.00	1166.6	85.0	111.81	4.7500	1.361
	9.00	1167.5	85.9	111.79	4.3333	1.363
	10.00	1168.4	86.8	111.79	4.0000	1.365
	11.00	1168.9	87.4	111.78	3.7273	1.366
	12.00	1169.5	88.0	111.77	3.5000	1.368
	13.00	1170.1	88.5	111.76	3.3077	1.369
	14.00	1170.6	89.0	111.76	3.1429	1.370
	15.00	1171.0	89.5	111.74	3.0000	1.371
	16.00	1171.5	89.9	111.75	2.8750	1.372
	17.00	1171.9	90.3	111.73	2.7647	1.373
	18.00	1172.1	90.6	111.73	2.6667	1.374

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8670 Liboc Inc. Legleiter #1-2 DST #3

DATE: 12/12/95 TIME: 11:17:02

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	1172.4	90.8	111.72	2.5789	1.374
	20.00	1172.7	91.1	111.70	2.5000	1.375
	21.00	1173.0	91.4	111.69	2.4286	1.376
	22.00	1173.2	91.6	111.69	2.3636	1.376
	23.00	1173.5	91.9	111.67	2.3043	1.377
	24.00	1173.6	92.1	111.66	2.2500	1.377
	25.00	1173.9	92.3	111.64	2.2000	1.378
	26.00	1174.1	92.5	111.63	2.1538	1.378
	27.00	1174.2	92.7	111.63	2.1111	1.379
	28.00	1174.3	92.7	111.61	2.0714	1.379
	29.00	1174.5	92.9	111.60	2.0345	1.379
***** End Shut-in 1	30.00	1174.5	92.9	111.58	2.0000	1.379
***** Start Flow 2	0.00	1068.1	0.0	111.56		
	1.00	1060.1	-8.1	111.54		
	2.00	1057.8	-10.3	111.55		
	3.00	1065.5	-2.7	111.60		
	4.00	1075.5	7.4	111.64		
	5.00	1082.1	13.9	111.68		
***** End Flow 2	6.00	1128.7	60.6	111.72		
***** Start Shutin 2	0.00	1128.7	0.0	111.72	0.0000	1.274
	1.00	1153.2	24.4	111.76	37.0000	1.330
	2.00	1160.5	31.8	111.78	19.0000	1.347
	3.00	1164.0	35.2	111.79	13.0000	1.355
	4.00	1166.0	37.3	111.80	10.0000	1.360
	5.00	1167.3	38.6	111.80	8.2000	1.363
	6.00	1168.4	39.6	111.80	7.0000	1.365
	7.00	1169.1	40.4	111.81	6.1429	1.367
	8.00	1169.8	41.0	111.81	5.5000	1.368
	9.00	1170.3	41.5	111.81	5.0000	1.370
	10.00	1170.8	42.0	111.81	4.6000	1.371
	11.00	1171.1	42.4	111.82	4.2727	1.372
	12.00	1171.6	42.9	111.81	4.0000	1.373
	13.00	1171.9	43.1	111.82	3.7692	1.373
	14.00	1172.0	43.3	111.81	3.5714	1.374
	15.00	1172.4	43.6	111.81	3.4000	1.374
	16.00	1172.6	43.9	111.82	3.2500	1.375
	17.00	1172.9	44.1	111.81	3.1176	1.376
	18.00	1173.1	44.4	111.81	3.0000	1.376
	19.00	1173.4	44.6	111.81	2.8947	1.377
	20.00	1173.5	44.7	111.81	2.8000	1.377
	21.00	1173.6	44.8	111.81	2.7143	1.377
	22.00	1173.7	45.0	111.81	2.6364	1.378
	23.00	1173.9	45.2	111.81	2.5652	1.378
	24.00	1174.0	45.2	111.80	2.5000	1.378
	25.00	1174.1	45.3	111.80	2.4400	1.378
	26.00	1174.1	45.4	111.79	2.3846	1.379
	27.00	1174.3	45.6	111.78	2.3333	1.379
	28.00	1174.4	45.7	111.78	2.2857	1.379
	29.00	1174.6	45.8	111.78	2.2414	1.380
	30.00	1174.6	45.9	111.76	2.2000	1.380
	31.00	1174.7	46.0	111.76	2.1613	1.380

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8670 Liboc Inc. Legleiter #1-2 DST #3

DATE: 12/12/95

TIME: 11:17:02

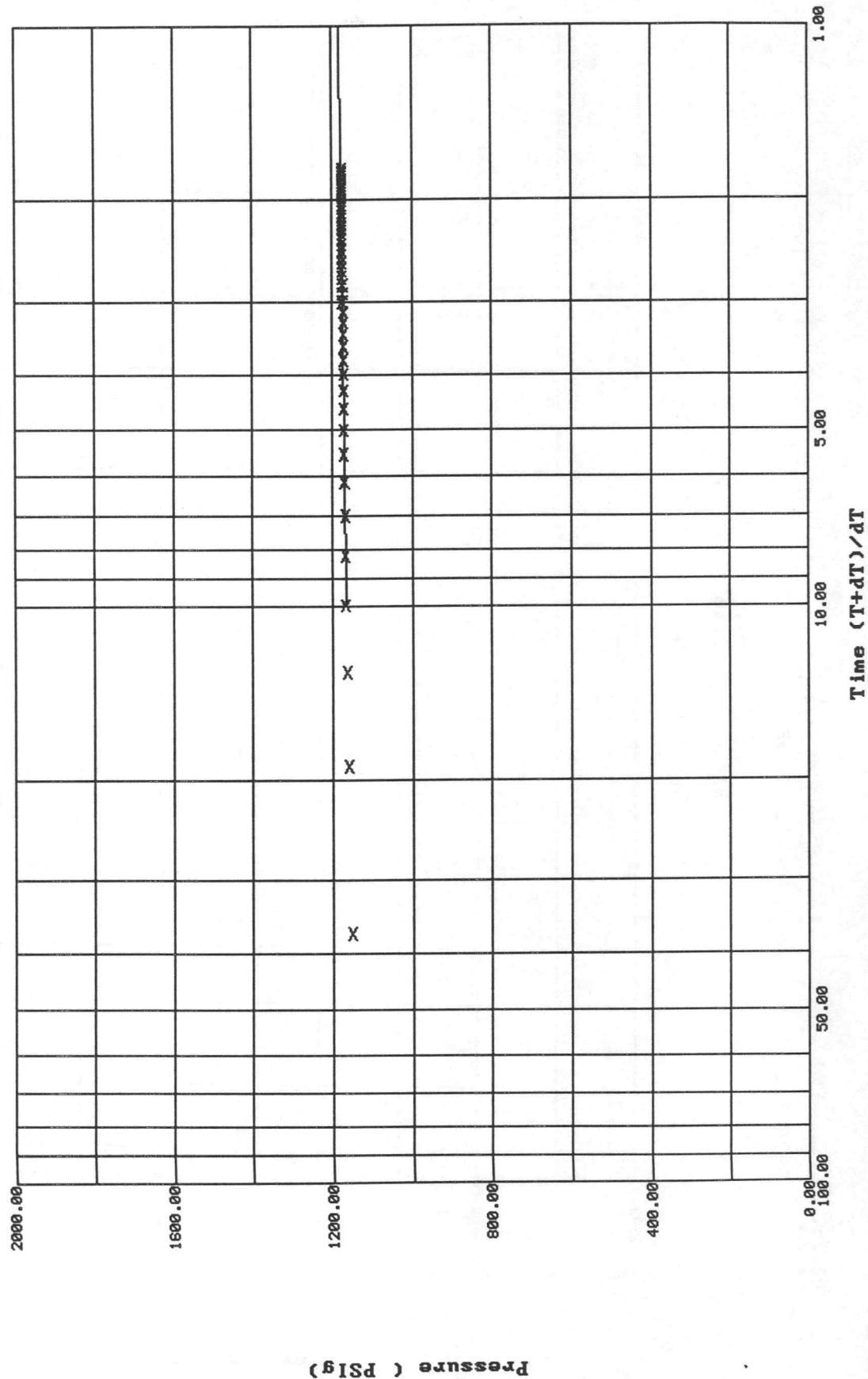
	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	32.00	1174.8	46.1	111.76	2.1250	1.380
	33.00	1174.9	46.2	111.75	2.0909	1.380
	34.00	1175.0	46.3	111.74	2.0588	1.381
	35.00	1175.0	46.3	111.74	2.0286	1.381
	36.00	1175.1	46.3	111.73	2.0000	1.381
	37.00	1175.1	46.4	111.72	1.9730	1.381
	38.00	1175.3	46.5	111.72	1.9474	1.381
	39.00	1175.3	46.5	111.71	1.9231	1.381
	40.00	1175.4	46.6	111.70	1.9000	1.381
	41.00	1175.4	46.6	111.70	1.8780	1.381
	42.00	1175.4	46.7	111.69	1.8571	1.382
	43.00	1175.4	46.7	111.69	1.8372	1.382
	44.00	1175.5	46.8	111.68	1.8182	1.382
	45.00	1175.6	46.9	111.68	1.8000	1.382
	46.00	1175.7	47.0	111.68	1.7826	1.382
***** End Shut-in 2	47.00	1175.7	47.0	111.66	1.7660	1.382
***** Final Hydro.	200.00	1799.8	0.0	111.62		

Horner Plot: shut-in #2

8670 Liboc Inc. Legleiter #1-2 DST #3

Slope: 16.1162 PSig/cycle

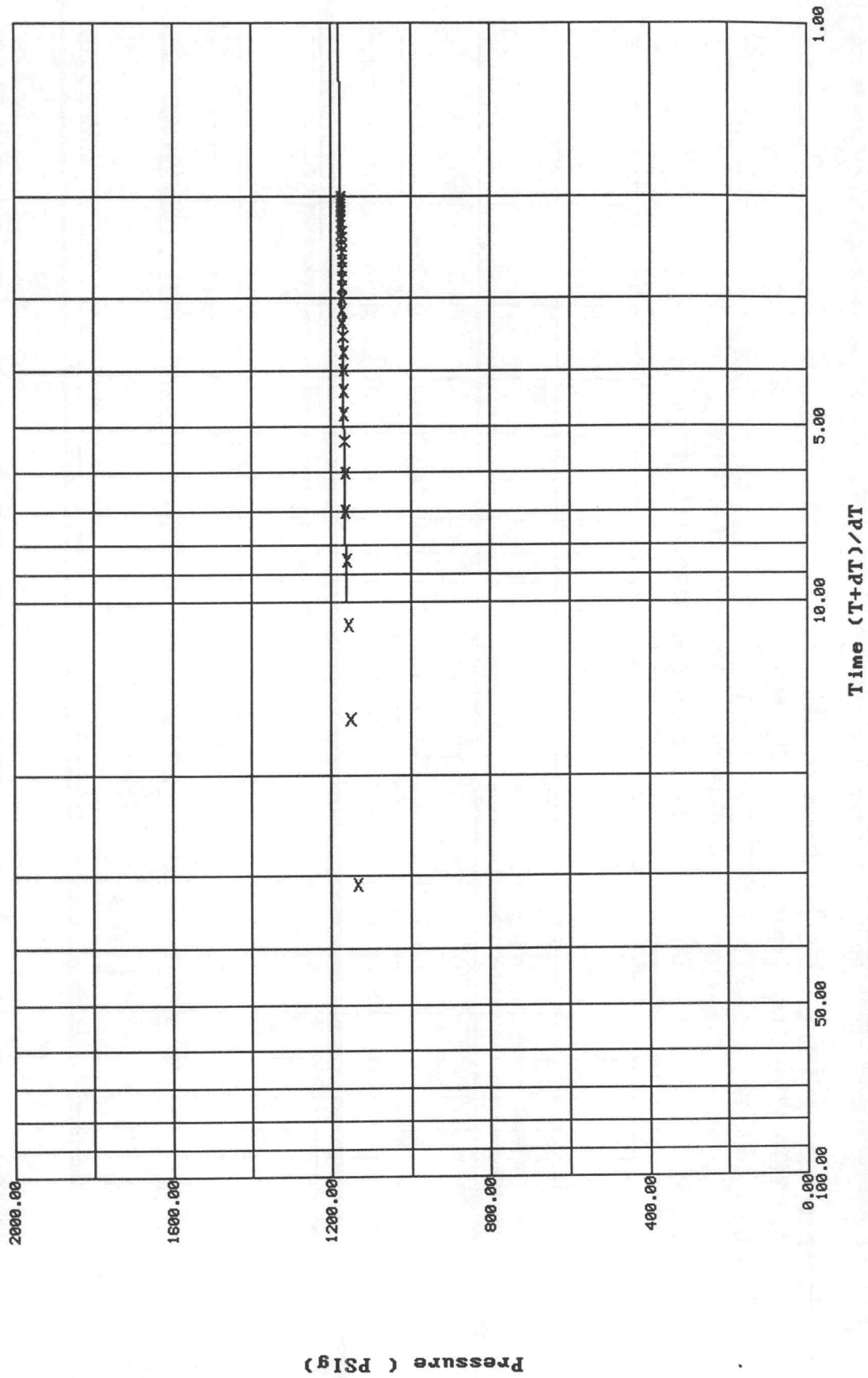
Ext. Pressure: 1179.7065 PSig



Horner Plot: shut-in #1

8670 Liboc Inc. Legleiter #1-2 DST #3

Slope: 18.6070 PSig/cycle
Ext. Pressure: 1180.1986 PSig

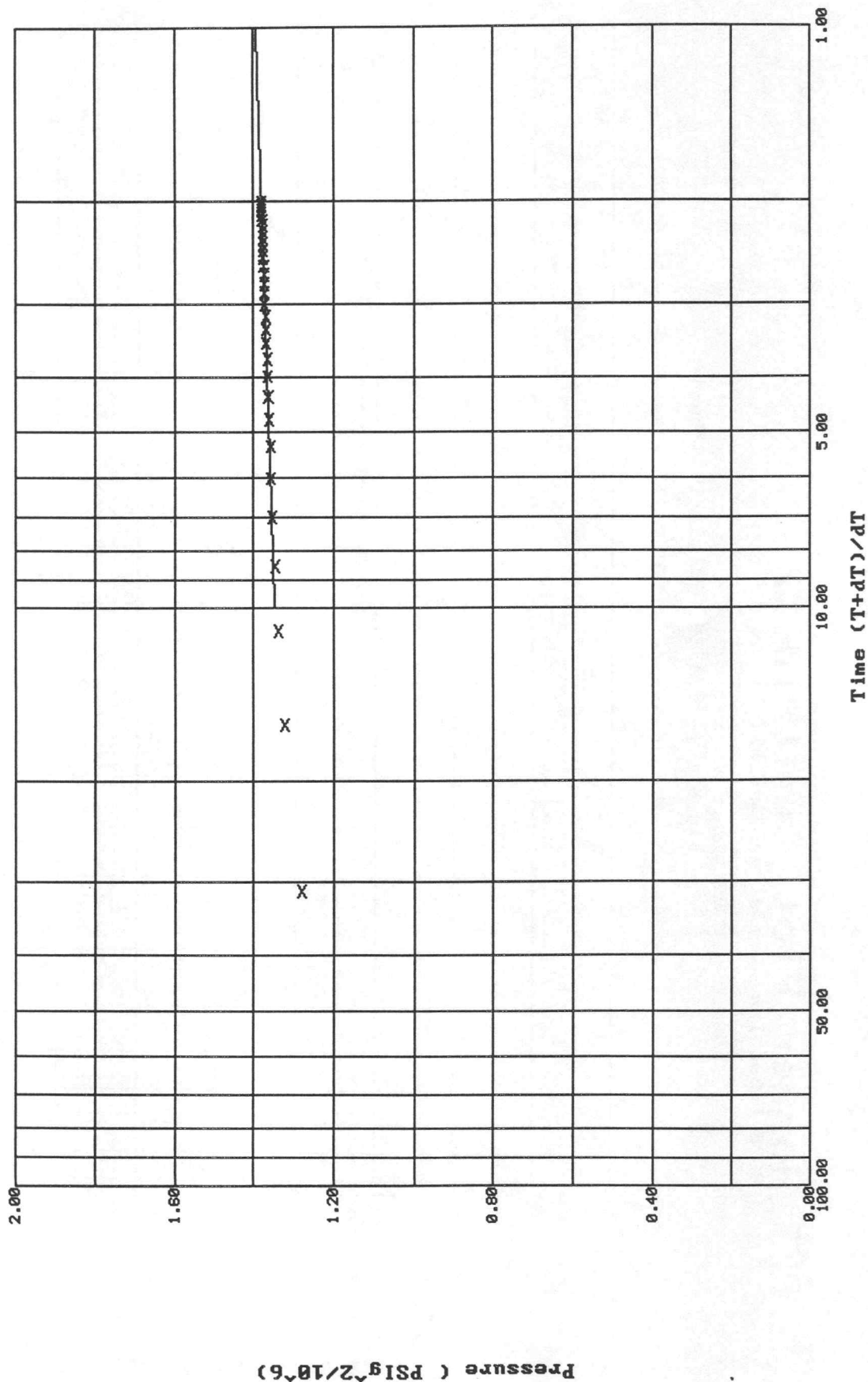


P² Horner Plot: shut-in #1

8670 Liboc Inc. Legleiter #1-2 DST #3

Slope: 0.0437 PSig²/10⁶/cycle

Ext. Pressure: 1180.1904 PSig

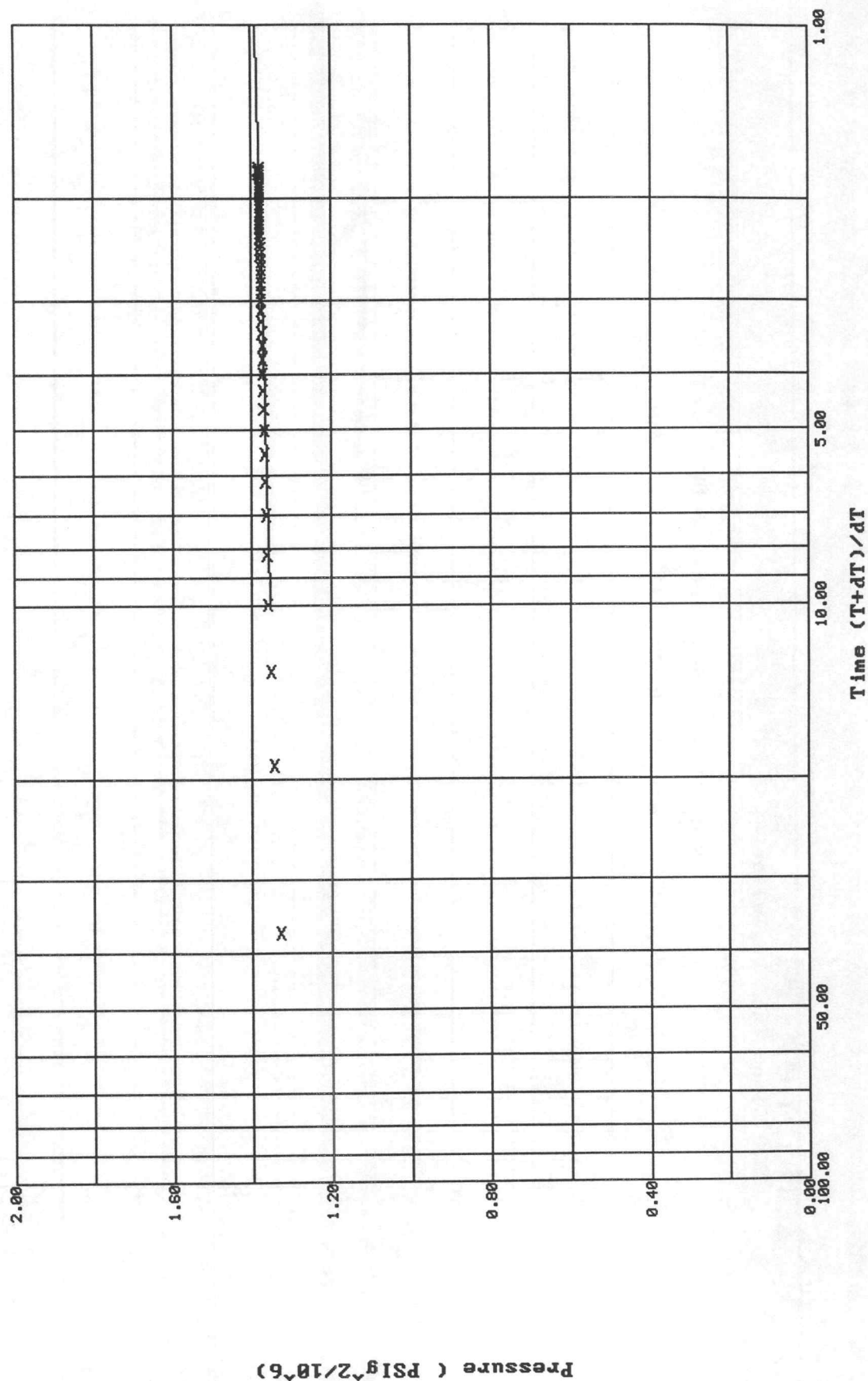


P² Horner Plot: shut-in #2

8670 Libco Inc. Legleiter #1-2 DST #3

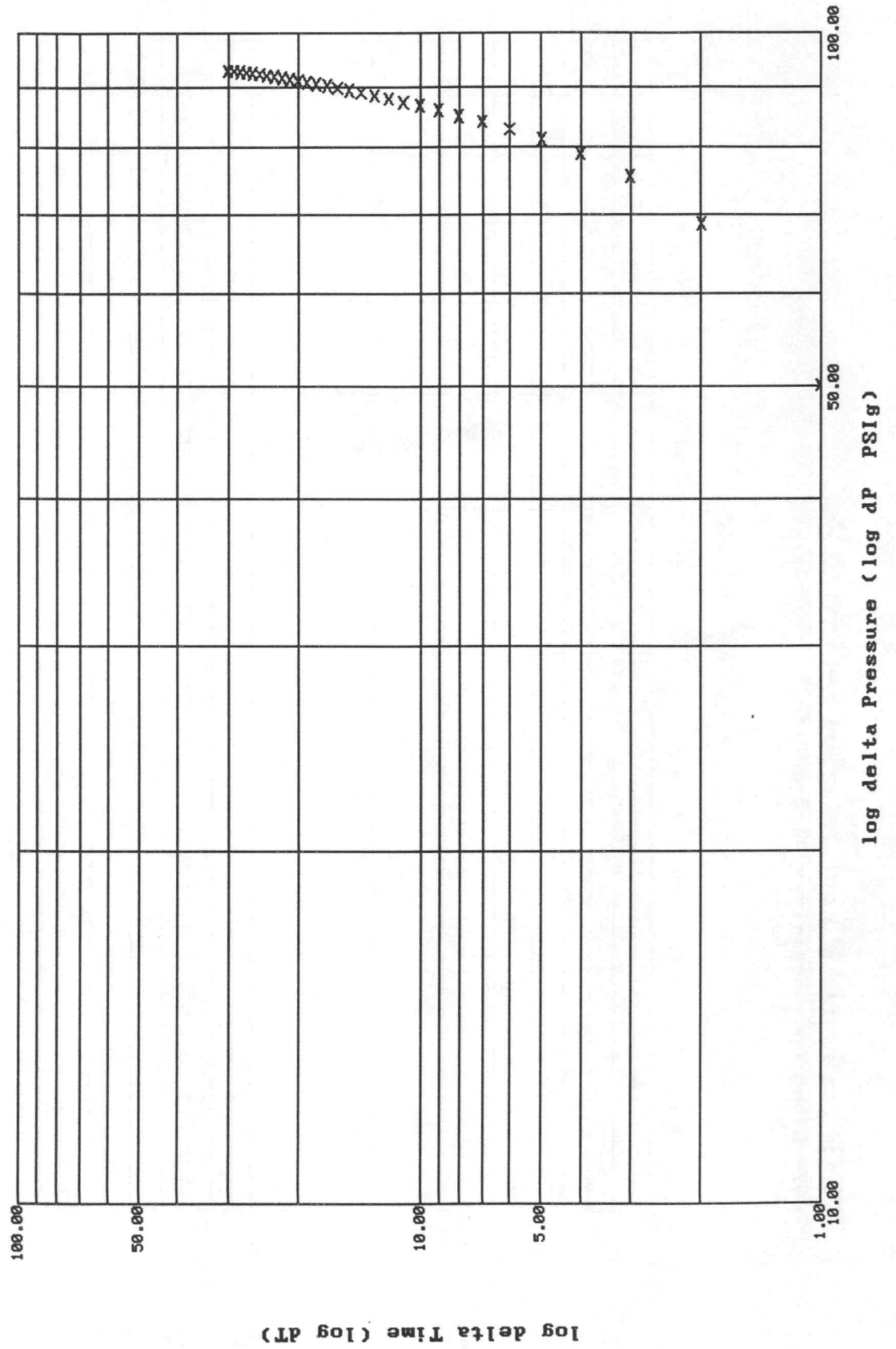
Slope: 0.0364 PSig²/10⁶/cycle

Ext. Pressure: 1179.5431 PSig



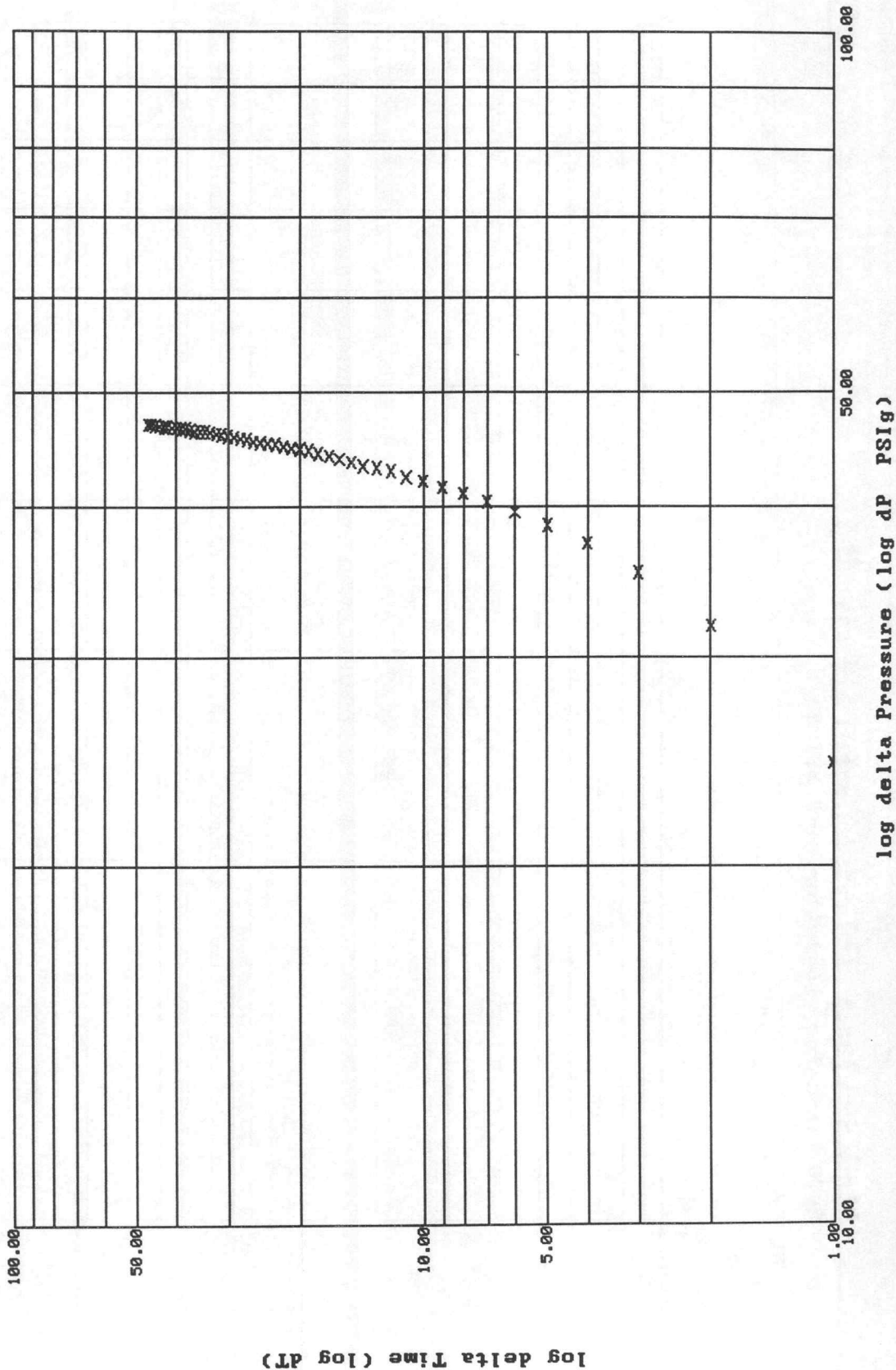
McKinley Plot: shut-in #1

8670 Liboc Inc. Legleiter #1-2 DST #3



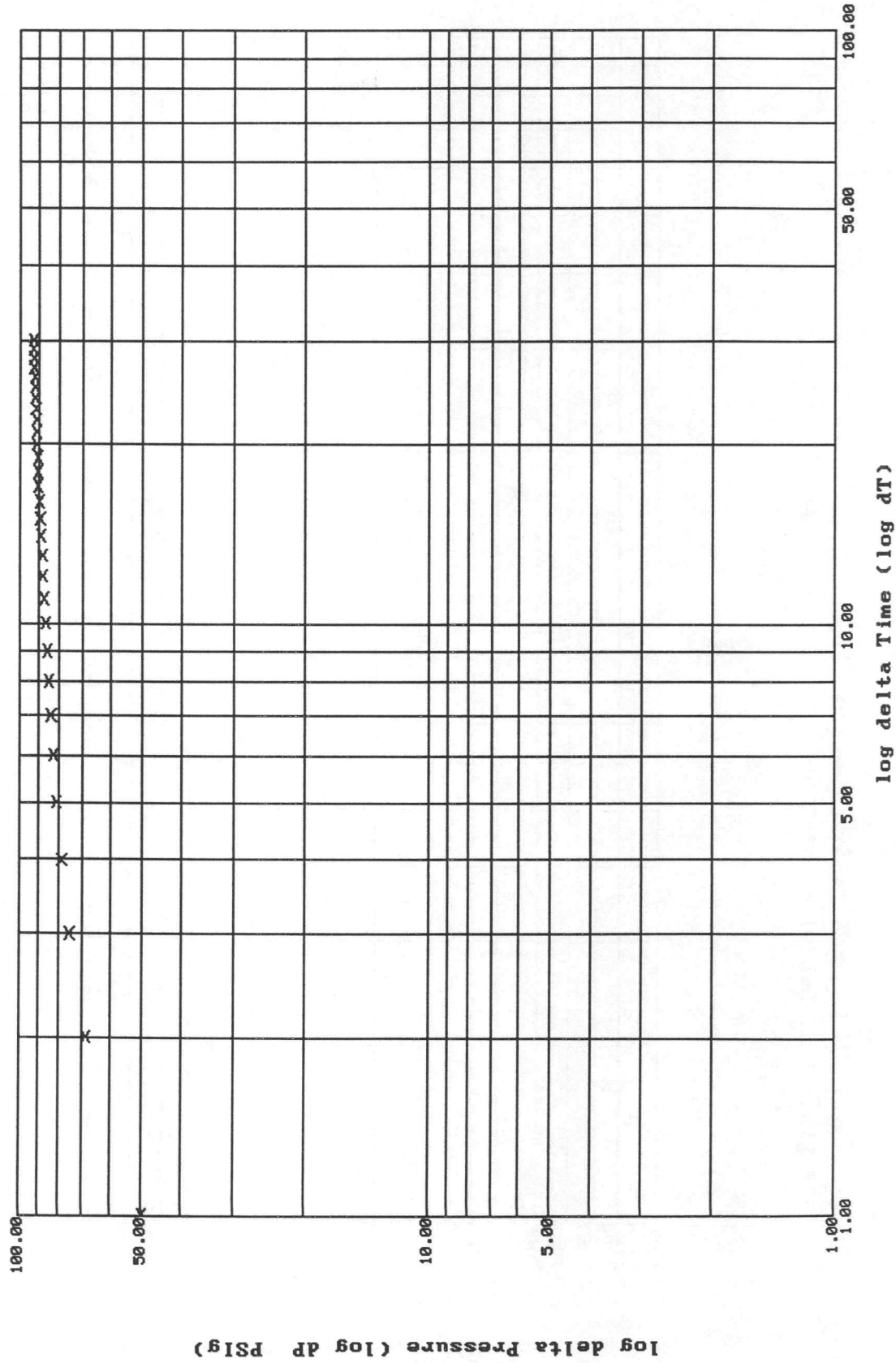
McKinley Plot: shut-in #2

8670 Liboc Inc. Legleiter #1-2 DST #3

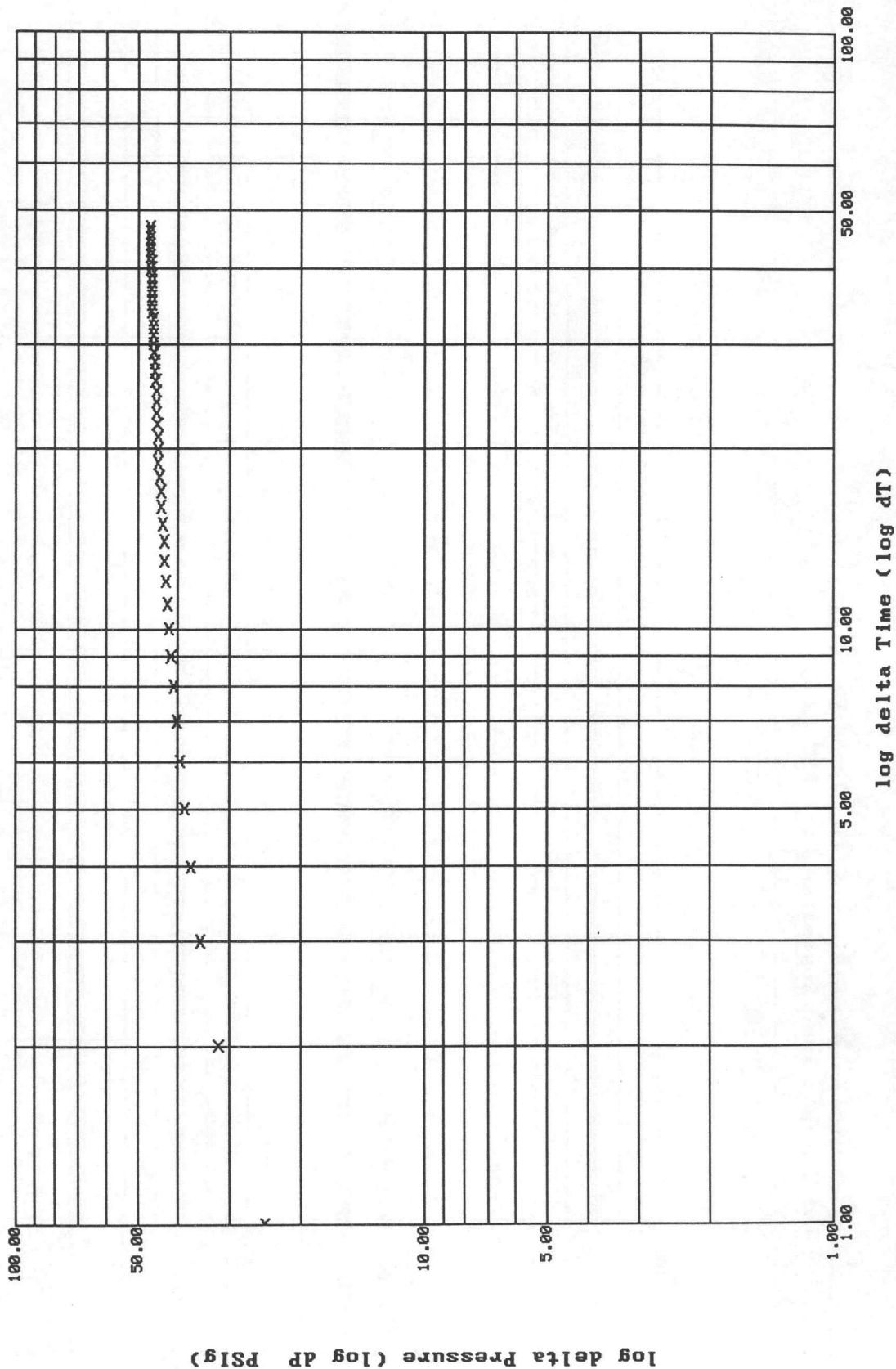


Ramey Plot: shut-in #1

8670 Liboc Inc. Legleiter #1-2 DST #3



Ramey Plot: shut-in #2 8670 Liboc Inc. Legleiter #1-2 DST #3



P.O. SUB	
C.O. SUB changeover sub	3544
S.I. TOOL Shutin tool	3550
HMV Hydraulic tool	3555
JARS n/a	
SAFETY JOINT n/a	
PACKER Top Packer	3559
PACKER Bottom Packer	3564
DEPTH 3564	
STUBB 3565	
ANCHOR	
2' perf	3567
Alpine recorder	3567
5' perf	3572
AK-1 recorder	3575
5' perf	3577
T.C.	
DEPTH	
BULLNOSE 3' bull plug	
T.D.	3580

REMARKS:

TRILOBITE TESTING L.L.C.

OPERATOR : Liboc Inc.
WELL NAME: #1-2 Legleiter
LOCATION : 02-16S-18W, Rush Cty KS
INTERVAL : 3580.00 To 3586.00 ft

DATE 12-12-95
KB 2012.00 ft TICKET NO: 8671 DST #4
GR 2003.00 ft FORMATION: Penn Sand
TD 3586.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	n/a	2342				PF Fr. 2343 to 0013 hr
SI 30 Range(Psi)	0.0	4995.0	0.0	0.0	0.0	IS Fr. 0013 to 0043 hr
SF 30 Clock(hrs)		Alpin				SF Fr. 0043 to 0113 hr
FS 45 Depth(ft)	0.0	3567.0	0.0	0.0	0.0	FS Fr. 0113 to 0158 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	1840.0	0.0	0.0	0.0	T STARTED 2245 hr
B. First Flow	0.0	761.0	0.0	0.0	0.0	T ON BOTM 2340 hr
B1. Final Flow	0.0	1166.0	0.0	0.0	0.0	T OPEN 2343 hr
C. In Shut-in	0.0	1182.0	0.0	0.0	0.0	T PULLED 0158 hr
D. Init Flow	0.0	1168.0	0.0	0.0	0.0	T OUT 0410 hr
E. Final Flow	0.0	1181.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	1183.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	1791.0	0.0	0.0	0.0	Tool Wt. 1450.00 lbs
Inside/Outside	I					Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 51000.00 lbs
						Unseated Str Wt 64000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3565.00 ft

RECOVERY

Tot Fluid 2600.00 ft of 0.00 ft in DC and 2600.00 ft in DP
120.00 ft of Slightly water cut oil - 85% oil, 15% water
2480.00 ft of Oil specked water

RW .30 @ 45 F
SALINITY 36000.00 P.P.M. A.P.I. Gravity 24.00

BLOW DESCRIPTION

Initial Flow -
Strong bottom of bucket in 20 sec

Initial Shutin -
Good blow throughout, bottom of bucket
in 3 min

Final Flow -
Strong, bottom of bucket in 30 sec;
Gas to surface 22 min into final flow

Final Shutin -
Strong, bottom of bucket in 2 min

SAMPLES: 2 caught on final flow
SENT TO:Amarillo Texas

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/
Vis.	56.00 S/I
W.L.	8.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	111.00 F
Hole Condition	good
% 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	Paul Simpson
Co. Rep.	Jeff Zoller
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL PIPE

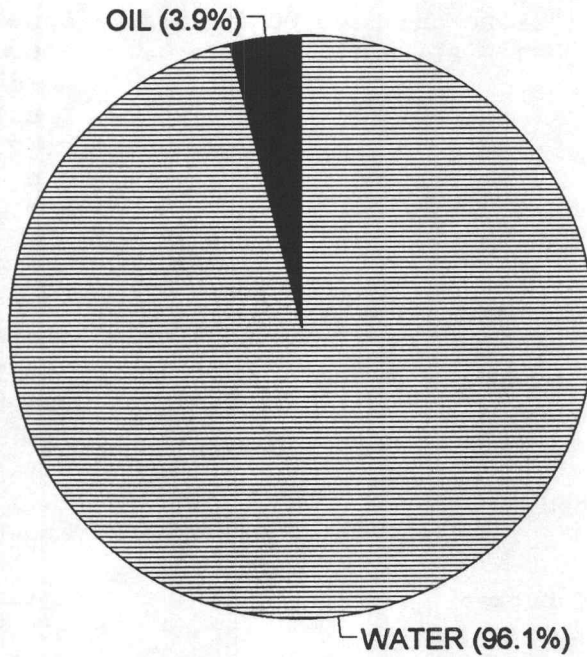
DST # 4

TICKET # 8671

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	120		0	85	102	15	18		0
2	2480		0		0	100	2480		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	2600	0.00	0	3.92	102	96.07692	2498	0.00	0

HRS OPE BBL/DAY

BBL OIL=	1.45044	*	1.00	34.81
BBL WATER=	35.52156	*		852.52
BBL MUD=	0			
BBL GAS	0			



GAS RECOVERY

COMPANY: Liboc Inc.

DATE: 12-12-95

WELL NAME: #1-2 Legleiter

KB Elev: 2012.00 ft TICKET #8671 DST #4

WELL LOCATION: 02-16S-18W, Rush Cty KS

GR Elev: 2003.00 ft FORMATION: Penn Sand

INTERVAL Fr.: 3580.00 To 3586.00 T.D.: 3586.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
25	0.25	0	6	4120.0

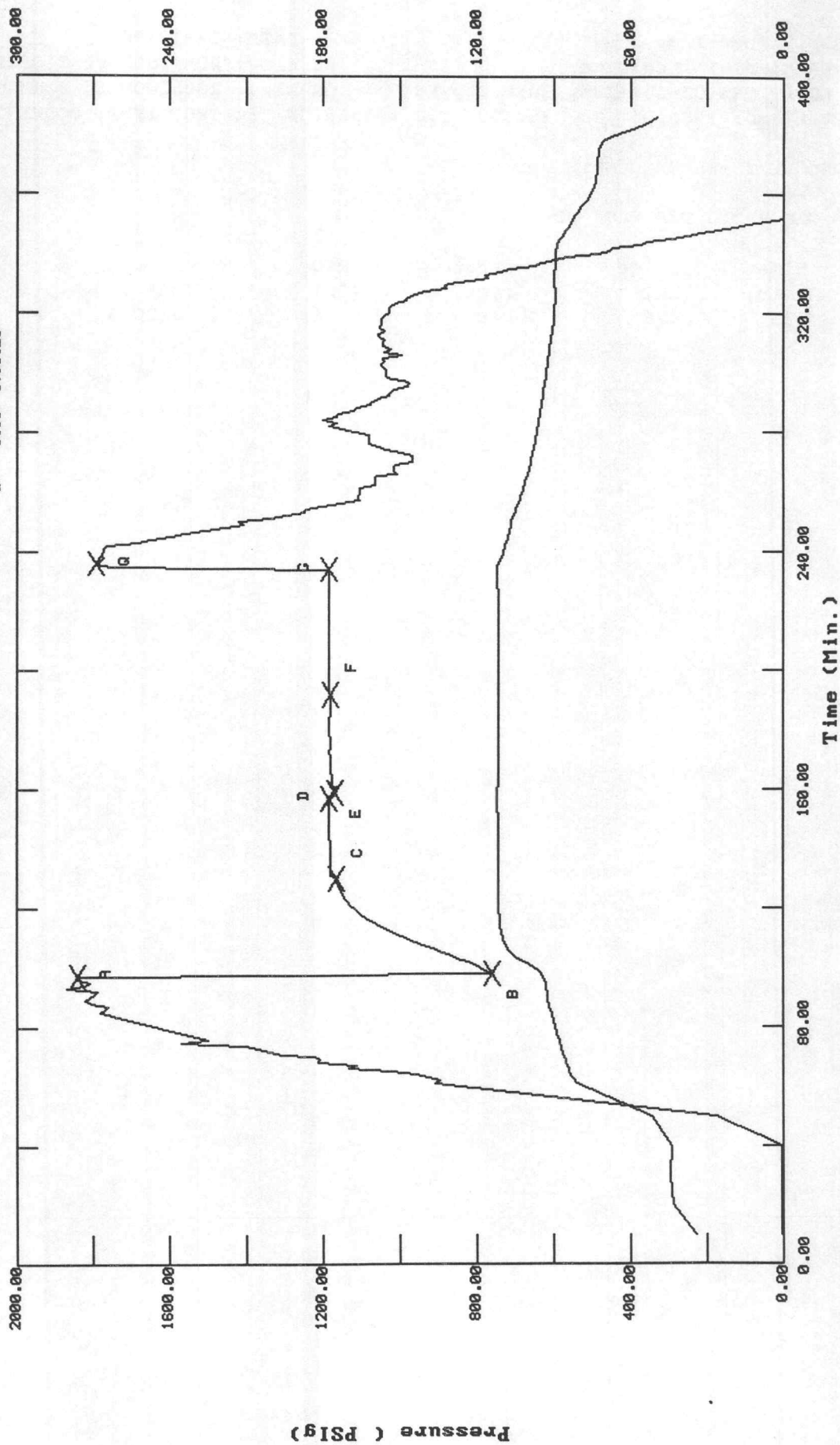
TEST HISTORY

8671 Liboc Inc. Legleiter #1-2 DST #4

Flag Points

t(Min.) P(PSig)

A: 0.00 1839.52
 B: 0.00 760.80
 C: 32.00 1165.58
 D: 27.00 1182.49
 E: 0.00 1168.10
 F: 33.00 1180.86
 G: 42.00 1183.24
 Q: 0.00 1791.28



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8671 Liboc Inc. Legleiter #1-2 DST #4

DATE: 12/12/95 TIME: 22:04:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	97.00	1839.5	0.0	93.95		
***** Start Flow 1	0.00	760.8	0.0	94.64		
	1.00	779.2	18.4	95.85		
	2.00	790.0	29.2	97.56		
	3.00	806.2	45.4	99.56		
	4.00	822.0	61.2	101.53		
	5.00	841.3	80.5	103.31		
	6.00	859.4	98.6	104.82		
	7.00	877.0	116.2	106.09		
	8.00	897.7	136.9	107.11		
	9.00	916.9	156.1	107.93		
	10.00	938.6	177.8	108.60		
	11.00	958.0	197.2	109.17		
	12.00	978.4	217.6	109.61		
	13.00	997.2	236.4	109.97		
	14.00	1015.1	254.3	110.27		
	15.00	1032.8	272.0	110.50		
	16.00	1048.2	287.4	110.69		
	17.00	1061.3	300.5	110.85		
	18.00	1076.3	315.5	110.97		
	19.00	1087.0	326.2	111.07		
	20.00	1098.1	337.3	111.15		
	21.00	1108.3	347.5	111.21		
	22.00	1117.0	356.2	111.26		
	23.00	1126.1	365.3	111.30		
	24.00	1133.1	372.3	111.33		
	25.00	1138.8	378.0	111.36		
	26.00	1145.3	384.5	111.37		
	27.00	1149.8	389.0	111.38		
	28.00	1152.2	391.4	111.40		
	29.00	1156.5	395.7	111.40		
	30.00	1160.5	399.7	111.40		
	31.00	1163.1	402.3	111.41		
***** End Flow 1	32.00	1165.6	404.8	111.41		
***** Start Shutin 1	0.00	1165.6	0.0	111.41	0.0000	1.359
	1.00	1178.8	13.3	111.41	33.0000	1.390
	2.00	1180.2	14.6	111.42	17.0000	1.393
	3.00	1180.5	14.9	111.43	11.6667	1.394
	4.00	1180.7	15.1	111.44	9.0000	1.394
	5.00	1180.9	15.3	111.47	7.4000	1.394
	6.00	1181.0	15.4	111.49	6.3333	1.395
	7.00	1181.2	15.6	111.51	5.5714	1.395
	8.00	1181.3	15.7	111.55	5.0000	1.395
	9.00	1181.4	15.8	111.57	4.5556	1.396
	10.00	1181.4	15.9	111.60	4.2000	1.396
	11.00	1181.7	16.2	111.63	3.9091	1.396
	12.00	1181.8	16.2	111.66	3.6667	1.397
	13.00	1181.8	16.2	111.68	3.4615	1.397
	14.00	1182.0	16.4	111.70	3.2857	1.397
	15.00	1182.1	16.5	111.72	3.1333	1.397
	16.00	1182.1	16.5	111.74	3.0000	1.397

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8671 Liboc Inc. Legleiter #1-2 DST #4

DATE: 12/12/95

TIME: 22:04:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	17.00	1182.1	16.5	111.76	2.8824	1.397
	18.00	1182.1	16.5	111.77	2.7778	1.397
	19.00	1182.2	16.6	111.78	2.6842	1.398
	20.00	1182.3	16.7	111.79	2.6000	1.398
	21.00	1182.3	16.7	111.80	2.5238	1.398
	22.00	1182.3	16.7	111.81	2.4545	1.398
	23.00	1182.2	16.7	111.81	2.3913	1.398
	24.00	1182.5	16.9	111.81	2.3333	1.398
	25.00	1182.5	16.9	111.82	2.2800	1.398
	26.00	1182.5	16.9	111.82	2.2308	1.398
***** End Shut-in 1	27.00	1182.5	16.9	111.83	2.1852	1.398
***** Start Flow 2	0.00	1168.1	0.0	111.83		
	1.00	1171.3	3.2	111.81		
	2.00	1172.9	4.8	111.78		
	3.00	1174.8	6.7	111.74		
	4.00	1175.8	7.7	111.73		
	5.00	1177.1	9.0	111.71		
	6.00	1177.8	9.7	111.70		
	7.00	1178.4	10.3	111.69		
	8.00	1179.5	11.4	111.68		
	9.00	1180.3	12.2	111.68		
	10.00	1181.1	13.0	111.67		
	11.00	1181.6	13.5	111.67		
	12.00	1181.6	13.5	111.66		
	13.00	1181.6	13.5	111.67		
	14.00	1183.6	15.5	111.66		
	15.00	1178.9	10.8	111.66		
	16.00	1179.3	11.2	111.65		
	17.00	1180.4	12.3	111.66		
	18.00	1180.4	12.3	111.65		
	19.00	1180.7	12.6	111.66		
	20.00	1182.1	14.0	111.65		
	21.00	1182.9	14.8	111.65		
	22.00	1184.1	16.0	111.64		
	23.00	1182.5	14.4	111.64		
	24.00	1183.1	15.0	111.64		
	25.00	1182.7	14.6	111.65		
	26.00	1178.3	10.2	111.65		
	27.00	1180.3	12.2	111.66		
	28.00	1180.9	12.8	111.67		
	29.00	1180.9	12.8	111.67		
	30.00	1181.5	13.4	111.67		
	31.00	1181.8	13.7	111.66		
	32.00	1181.9	13.8	111.66		
***** End Flow 2	33.00	1180.9	12.8	111.65		
***** Start Shutin 2	0.00	1180.9	0.0	111.65	0.0000	1.394
	1.00	1182.9	2.1	111.66	66.0000	1.399
	2.00	1182.9	2.1	111.65	33.5000	1.399
	3.00	1183.0	2.1	111.64	22.6667	1.399
	4.00	1183.0	2.1	111.64	17.2500	1.399
	5.00	1183.0	2.1	111.64	14.0000	1.399

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8671 Liboc Inc. Legleiter #1-2 DST #4

DATE: 12/12/95

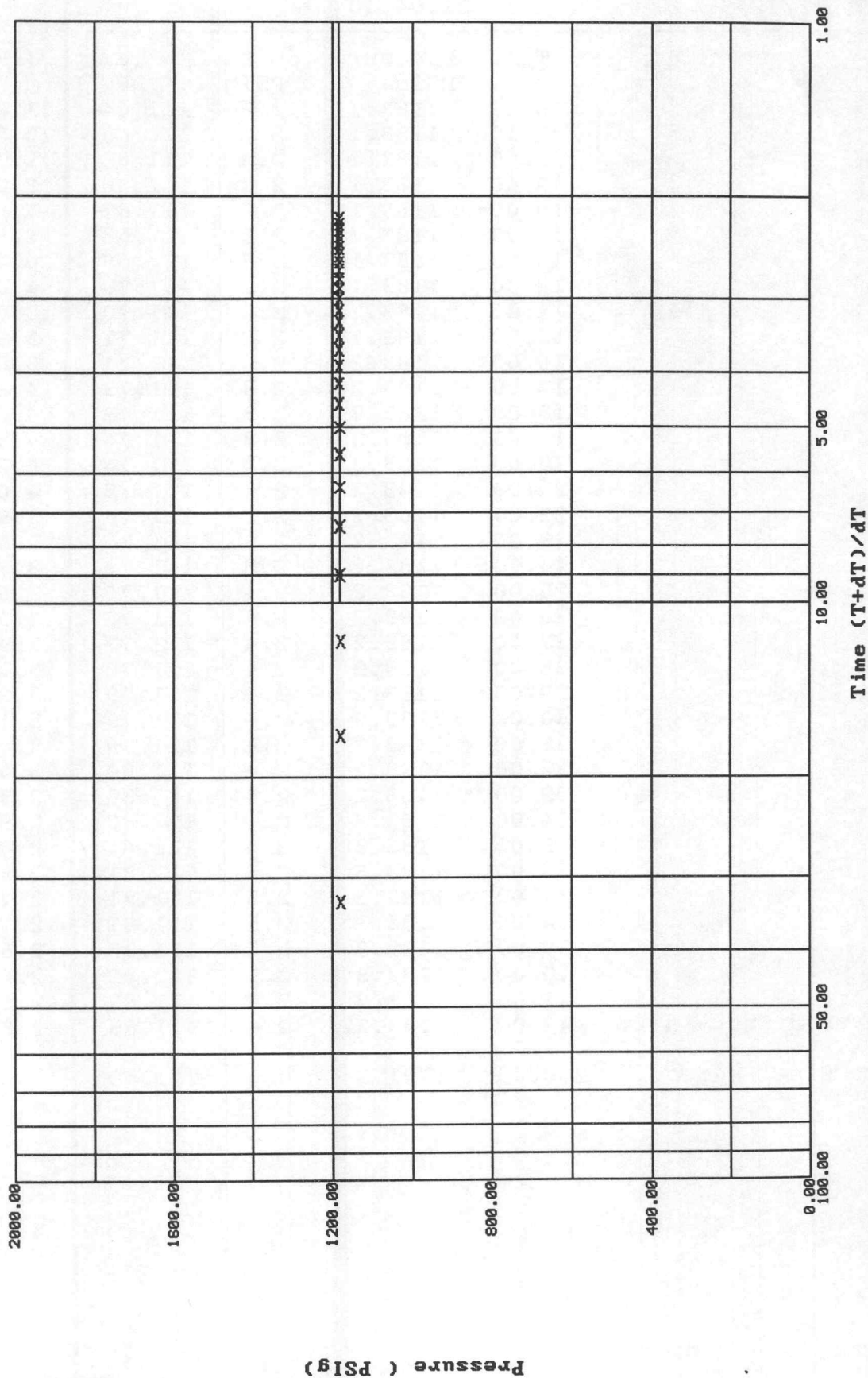
TIME: 22:04:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	6.00	1183.1	2.2	111.64	11.8333	1.400
	7.00	1183.1	2.2	111.65	10.2857	1.400
	8.00	1183.1	2.2	111.66	9.1250	1.400
	9.00	1183.1	2.2	111.66	8.2222	1.400
	10.00	1183.1	2.2	111.67	7.5000	1.400
	11.00	1183.1	2.2	111.68	6.9091	1.400
	12.00	1183.1	2.2	111.69	6.4167	1.400
	13.00	1183.1	2.2	111.70	6.0000	1.400
	14.00	1183.1	2.2	111.70	5.6429	1.400
	15.00	1183.1	2.2	111.71	5.3333	1.400
	16.00	1183.2	2.3	111.71	5.0625	1.400
	17.00	1183.2	2.3	111.73	4.8235	1.400
	18.00	1183.2	2.3	111.73	4.6111	1.400
	19.00	1183.2	2.3	111.74	4.4211	1.400
	20.00	1183.2	2.3	111.74	4.2500	1.400
	21.00	1183.2	2.3	111.75	4.0952	1.400
	22.00	1183.2	2.3	111.76	3.9545	1.400
	23.00	1183.2	2.3	111.76	3.8261	1.400
	24.00	1183.2	2.3	111.77	3.7083	1.400
	25.00	1183.2	2.4	111.76	3.6000	1.400
	26.00	1183.2	2.4	111.78	3.5000	1.400
	27.00	1183.2	2.4	111.77	3.4074	1.400
	28.00	1183.2	2.4	111.78	3.3214	1.400
	29.00	1183.2	2.4	111.79	3.2414	1.400
	30.00	1183.2	2.4	111.79	3.1667	1.400
	31.00	1183.2	2.4	111.79	3.0968	1.400
	32.00	1183.2	2.4	111.80	3.0312	1.400
	33.00	1183.2	2.4	111.80	2.9697	1.400
	34.00	1183.2	2.4	111.80	2.9118	1.400
	35.00	1183.2	2.4	111.81	2.8571	1.400
	36.00	1183.3	2.5	111.81	2.8056	1.400
	37.00	1183.3	2.5	111.81	2.7568	1.400
	38.00	1183.3	2.5	111.81	2.7105	1.400
	39.00	1183.3	2.5	111.82	2.6667	1.400
	40.00	1183.3	2.5	111.82	2.6250	1.400
	41.00	1183.2	2.4	111.83	2.5854	1.400
***** End Shut-in 2	42.00	1183.2	2.4	111.83	2.5476	1.400
***** Final Hydro.	236.00	1791.3	0.0	111.68		

Horner Plot: shut-in #1

8671 Liboc Inc. Legleiter #1-2 DST #4

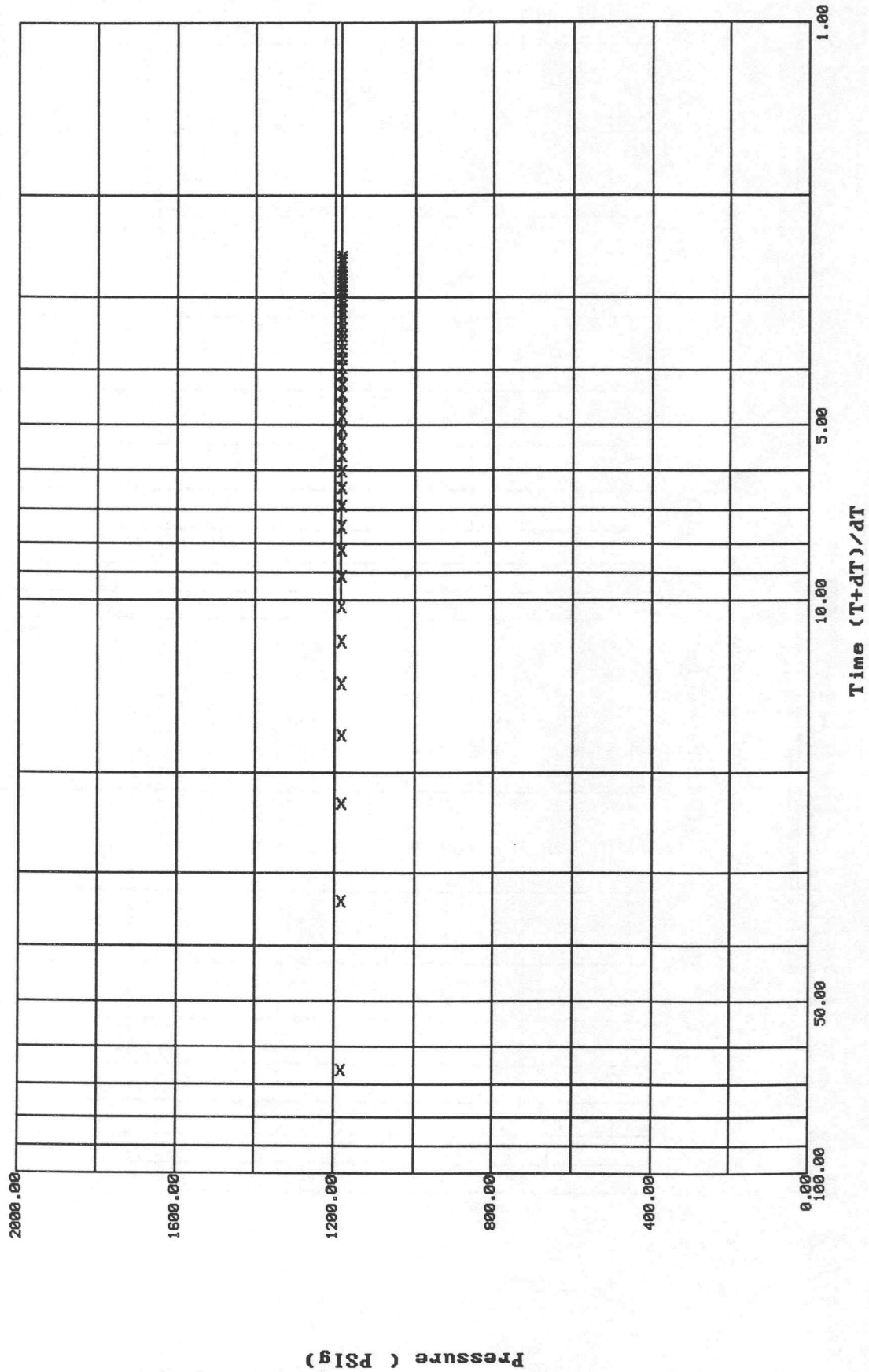
Slope: 5.0494 PSig/cycle
Ext. Pressure: 1184.2463 PSig



Horner Plot: shut-in #2

8671 Liboc Inc. Legleiter #1-2 DST #4

Slope: 0.3215 PSig/cycle
Ext. Pressure: 1183.4243 PSig

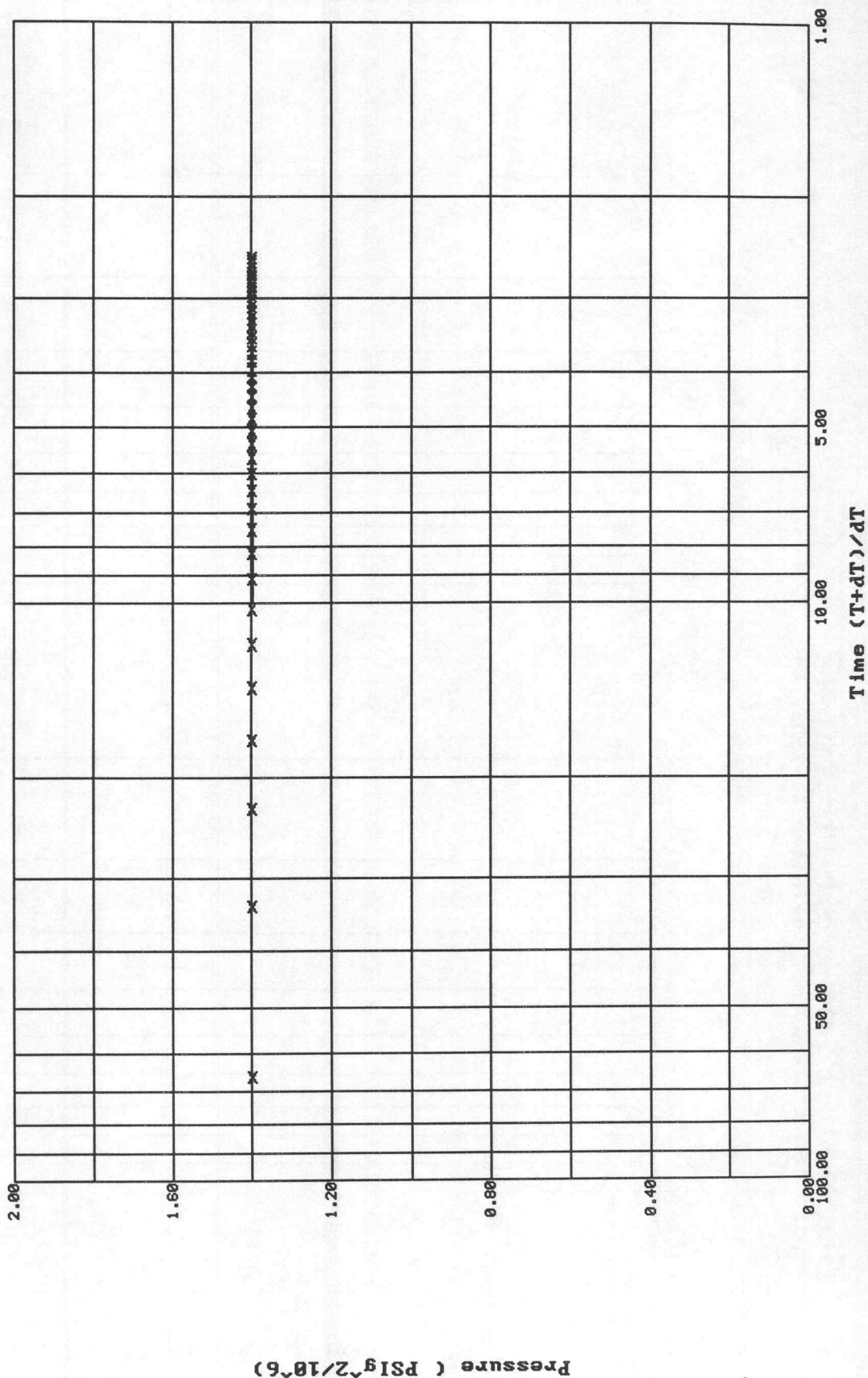


P² Horner Plot: shut-in #2

8671 Liboc Inc. Legleiter #1-2 DST #4

Slope: 0.0008 PSig²/10⁶/cycle

Ext. Pressure: 1183.4258 PSig

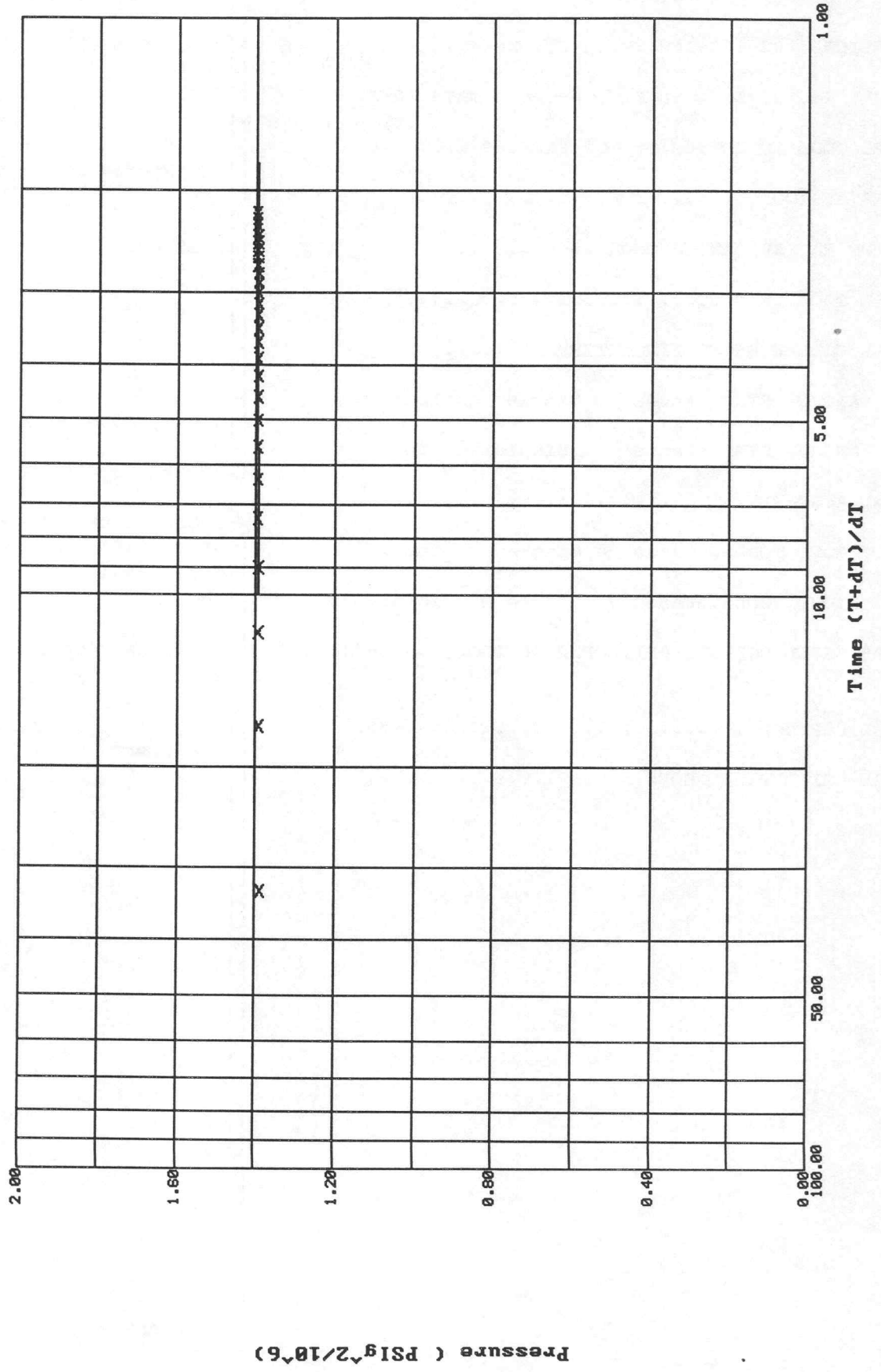


P² Horner Plot: shut-in #1

8671 Liboc Inc. Legleiter #1-2 DST #4

Slope: 0.0082 PSig²/10⁶/cycle

Ext. Pressure: 1183.6942 PSig



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: #1-2 Legleiter

LOCATION : 02-16S-18W, Rush Cty KS

TICKET No. 8671 D.S.T. No. 4 DATE 12-12-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 6

TOTAL TOOL 26

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 26

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands57 Single 1 Total 3565

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3591

TOTAL DEPTH 3586

TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS:

P.O. SUB

C.O. SUB changeover sub 3560

S.I. TOOL Shutin tool 3566

HMV Hydraulic tool 3571

JARS n/a

SAFETY JOINT n/a

PACKER Top Packer 3575

PACKER Bottom Packer 3580

DEPTH 3580

STUBB 3581

ANCHOR

Alpine recorder 3581

2' perf 3583

T.C.
DEPTH

BULLNOSE 3' bull plug

T.D. 3586