

15-075-20565

26-22s-39w

Computer inventoried

DRILL-STEM TEST DATA

ORIGINAL

Well Name: SUSANNA SALTER 1-26
Company : AMOCO PRODUCTION COMPANY
Location - Sec: 26 **Twp:** 22S
County: HAMILTON **State:** KS
Date: 8/13/95 **API#** 15-075-20565

CONFIDENTIAL

Rge: 39 30W

ncc

SEP 13

CONFIDENTIAL

RELEASED

MAR 16 1998

FROM CONFIDENTIAL

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : AMOCO Production Company
WELL NAME: Susanna Salter #1-26
LOCATION : 26-22s-29w Hamilton KS.
INTERVAL : 5160.00 To 5245.00 ft

DATE 8-13-95

KB 3446.00 ft TICKET NO: 7986 DST #1
GR 3435.00 ft FORMATION: Lwr. Morrow
TD 5434.00 ft TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	13276	13276	2351	13309		PF Fr. to 10 hr
SI 60 Range(Psi)	4000.0	4000.0	4995.0	4700.0	0.0	IS Fr. to 60 hr
SF 120 Clock(hrs)	27573	27573	elec.	23832		SF Fr. to 120 hr
FS 120 Depth(ft)	5235.0	5235.0	5227.0	5429.0	0.0	FS Fr. to 120 hr

	Field	1	2	3	4
A. Init Hydro	2433.0	2483.0	2479.0	0.0	0.0
B. First Flow	90.0	113.0	81.0	0.0	0.0
B1. Final Flow	209.0	236.0	210.0	0.0	0.0
C. In Shut-in	1414.0	1440.0	1443.0	0.0	0.0
D. Init Flow	200.0	212.0	189.0	0.0	0.0
E. Final Flow	436.0	442.0	453.0	0.0	0.0
F. Fl Shut-in	1414.0	1207.0	1218.0	0.0	0.0
G. Final Hydro	2452.0	2459.0	2451.0	0.0	0.0
Inside/Outside	0	0	I		

T STARTED 1720 hr
T ON BOTM 1956 hr
T OPEN 2000 hr
T PULLED 0110 hr
T OUT 0500 hr

TOOL DATA-----

Tool Wt. 4500.00 lbs
Wt Set On Packer 20000.00 lbs
Wt Pulled Loose 1000000.00 lbs
Initial Str Wt 80000.00 lbs
Unseated Str Wt 82000.00 lbs
Bot Choke 0.75 in
Hole Size 6.88 in
D Col. ID 2.25 in
D. Pipe ID 3.70 in
D.C. Length 482.00 ft
D.P. Length 4655.00 ft

RECOVERY

Tot Fluid 915.00 ft of 482.00 ft in DC and 433.00 ft in DP
0.00 ft of
185.00 ft of Muddy Water 80% water 20% mud
0.00 ft of
0.00 ft of
730.00 ft of Water 100% water
0.00 ft of
0.00 ft of
SALINITY 23000.00 P.P.M. A.P.I. Gravity 0.00

SEP 13
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BLOW DESCRIPTION

IF: Weak to fair blow built to 6"

ISI: Bled off blow - no return

FF: Weak surface return built to bttm.
of bucket in 90 mins.

FSI: Bled of blow - no return

MUD DATA-----

Mud Type Chemical
Weight 9.20 lb/cf
Vis. 52.00 S/L
W.L. 7.80 in3
F.C. 0.00 in
Mud Drop N

Amt. of fill 0.00 ft
Btm. H. Temp. 144.00 F
Hole Condition Good
% Porosity 13.00
Packer Size 6.75 in
No. of Packers 3
Cushion Amt. 0.00 N
Cushion Type
Reversed Out N
Tool Chased N
Tester Rod Steinbrink
Co. Rep. Sam Cormack
Contr. Cheyenne Drlg.
Rig # #3
Unit #
Pump T.

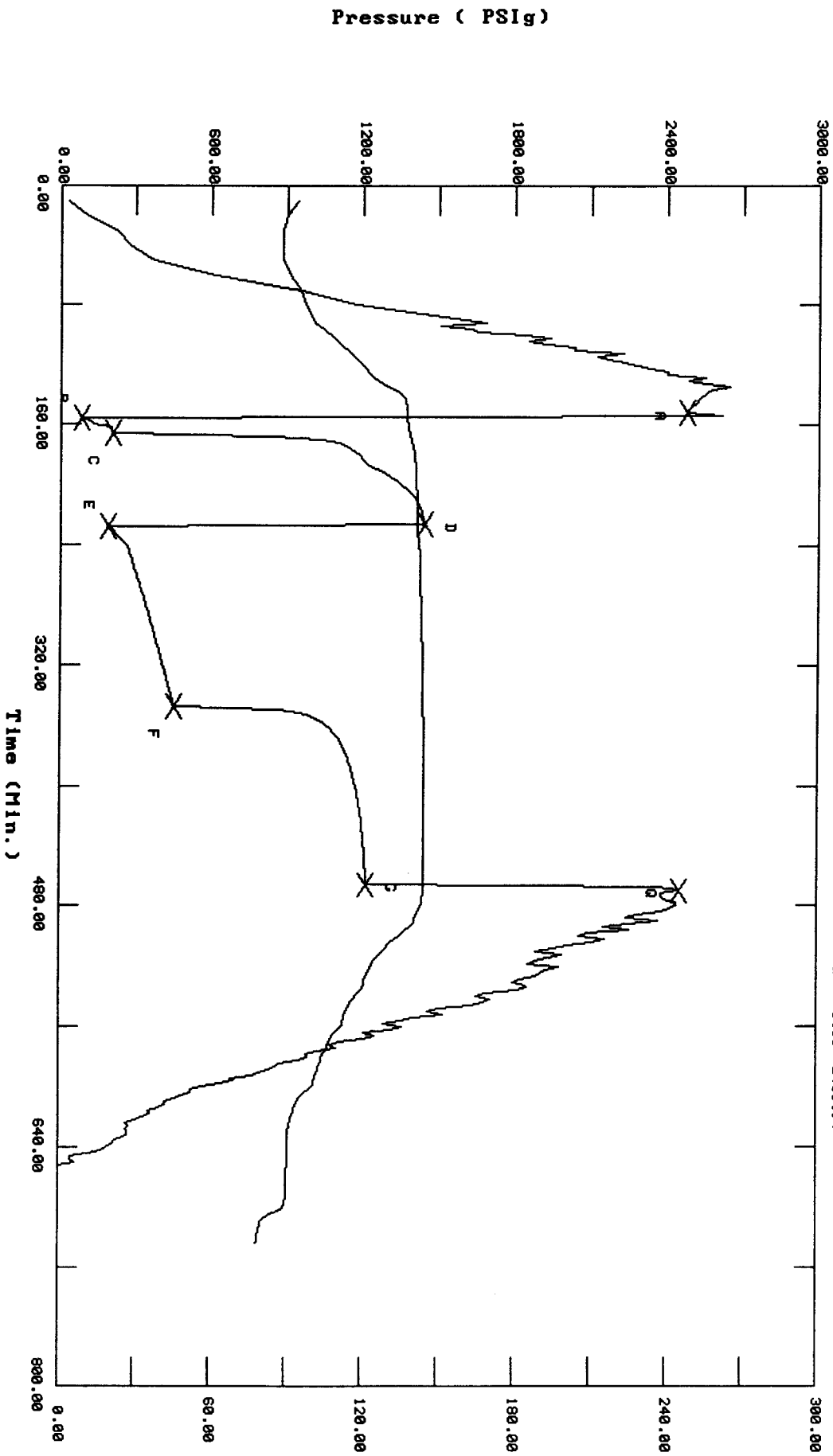
Test Successful: Y

7986 DST #1 Susanna Salter #1-26 AMOCO Prod. Co.

TEST HISTORY

Flag Points
(Min.) PK PSIG)

R1	0.00	2479.30
B1	0.00	81.74
C1	10.00	210.48
D1	60.00	1443.05
E1	0.00	189.67
F1	120.00	453.96
G1	118.00	1218.12
Q1	0.00	2451.94

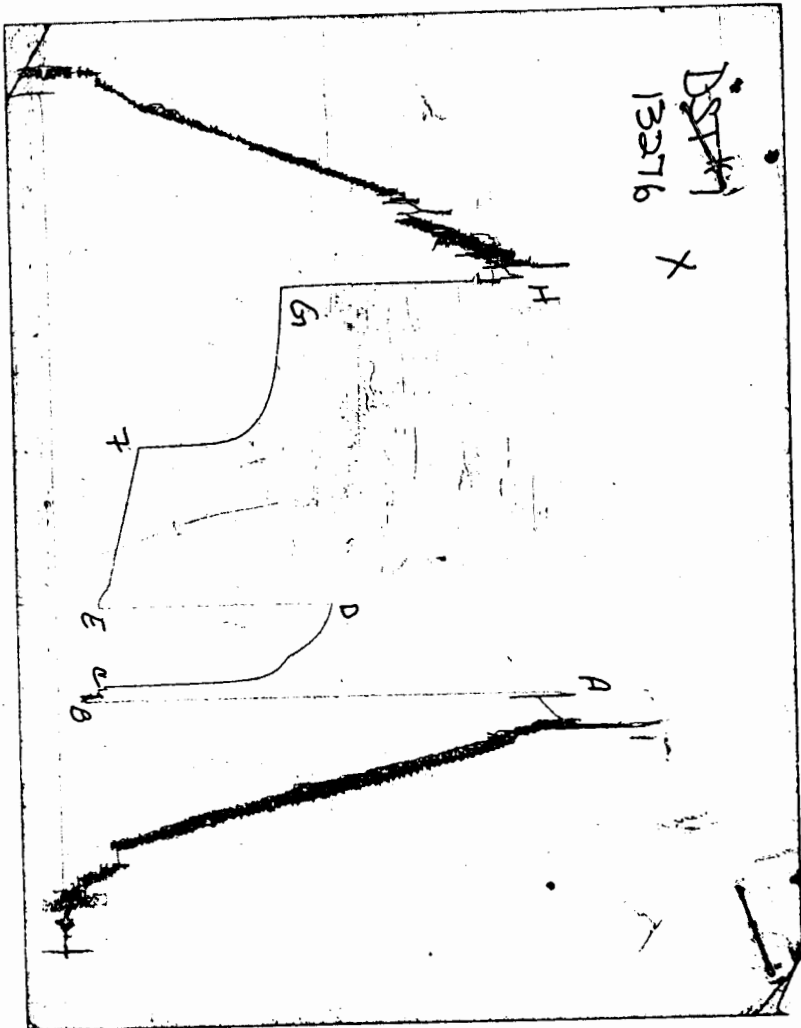


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 7986 DST #1 Susanna Salter #1-26 AMOCO Prod. Co.

DATE: 08/13/95

TIME: 16:17:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	152.00	2479.3	0.0	137.12		
***** Start Flow 1	0.00	81.7	0.0	137.31		
	2.00	119.3	37.5	137.50		
	4.00	131.2	49.4	137.67		
	6.00	199.5	117.8	138.00		
	8.00	200.2	118.5	138.22		
***** End Flow 1	10.00	210.5	128.7	138.40		
***** Start Shutin 1	0.00	210.5	0.0	138.40	0.0000	0.044
	2.00	838.5	628.0	138.61	6.0000	0.703
	4.00	1035.2	824.8	138.88	3.5000	1.072
	6.00	1103.2	892.7	139.26	2.6667	1.217
	8.00	1130.3	919.8	139.50	2.2500	1.278
	10.00	1153.7	943.2	139.79	2.0000	1.331
	12.00	1171.0	960.6	140.05	1.8333	1.371
	14.00	1184.5	974.1	140.28	1.7143	1.403
	16.00	1195.5	985.1	140.49	1.6250	1.429
	18.00	1204.9	994.4	140.61	1.5556	1.452
	20.00	1216.1	1005.6	140.75	1.5000	1.479
	22.00	1235.0	1024.5	140.85	1.4545	1.525
	24.00	1269.5	1059.0	140.93	1.4167	1.612
	26.00	1289.0	1078.6	141.05	1.3846	1.662
	28.00	1307.1	1096.6	141.08	1.3571	1.708
	30.00	1329.2	1118.7	141.13	1.3333	1.767
	32.00	1342.0	1131.5	141.18	1.3125	1.801
	34.00	1357.4	1147.0	141.21	1.2941	1.843
	36.00	1373.5	1163.0	141.24	1.2778	1.886
	38.00	1384.1	1173.6	141.27	1.2632	1.916
	40.00	1394.4	1183.9	141.30	1.2500	1.944
	42.00	1401.3	1190.8	141.31	1.2381	1.964
	44.00	1407.7	1197.2	141.34	1.2273	1.982
	46.00	1416.6	1206.1	141.35	1.2174	2.007
	48.00	1421.9	1211.4	141.38	1.2083	2.022
	50.00	1425.6	1215.1	141.39	1.2000	2.032
	52.00	1430.7	1220.2	141.40	1.1923	2.047
	54.00	1434.0	1223.5	141.42	1.1852	2.056
	56.00	1437.1	1226.6	141.35	1.1786	2.065
	58.00	1440.2	1229.7	141.43	1.1724	2.074
***** End Shut-in 1	60.00	1443.0	1232.6	141.44	1.1667	2.082
***** Start Flow 2	0.00	189.7	0.0	141.37		
	2.00	205.4	15.7	141.39		
	4.00	216.8	27.1	141.53		
	6.00	228.5	38.9	141.74		
	8.00	240.2	50.5	141.95		
	10.00	252.6	62.9	142.11		
	12.00	263.3	73.6	142.28		
	14.00	268.8	79.1	142.41		
	16.00	272.1	82.4	142.48		
	18.00	275.7	86.0	142.52		
	20.00	280.1	90.4	142.55		
	22.00	283.4	93.7	142.59		
	24.00	286.5	96.9	142.62		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 7986 DST #1 Susanna Salter #1-26 AMOCO Prod. Co.

DATE: 08/13/95 TIME: 16:17:14

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	26.00	292.6	102.9	142.64		
	28.00	294.7	105.0	142.67		
	30.00	298.4	108.7	142.70		
	32.00	302.4	112.7	142.72		
	34.00	306.2	116.6	142.76		
	36.00	309.8	120.1	142.81		
	38.00	313.2	123.5	142.87		
	40.00	316.9	127.2	142.91		
	42.00	320.6	130.9	142.96		
	44.00	324.0	134.4	143.00		
	46.00	327.7	138.1	143.04		
	48.00	331.6	141.9	143.08		
	50.00	335.1	145.4	143.13		
	52.00	338.7	149.1	143.18		
	54.00	342.2	152.6	143.21		
	56.00	346.1	156.4	143.27		
	58.00	349.6	160.0	143.31		
	60.00	353.2	163.6	143.37		
	62.00	357.2	167.5	143.40		
	64.00	360.6	171.0	143.45		
	66.00	364.1	174.4	143.48		
	68.00	367.5	177.8	143.51		
	70.00	371.2	181.5	143.56		
	72.00	374.5	184.8	143.58		
	74.00	377.8	188.1	143.62		
	76.00	380.9	191.2	143.65		
	78.00	384.5	194.9	143.70		
	80.00	388.0	198.3	143.72		
	82.00	391.3	201.6	143.76		
	84.00	395.0	205.3	143.79		
	86.00	398.5	208.8	143.82		
	88.00	401.8	212.2	143.85		
	90.00	405.0	215.4	143.87		
	92.00	408.4	218.7	143.90		
	94.00	411.5	221.8	143.93		
	96.00	415.5	225.8	143.96		
	98.00	418.7	229.0	143.98		
	100.00	421.9	232.2	144.02		
	102.00	425.6	235.9	144.06		
	104.00	428.8	239.1	144.09		
	106.00	431.8	242.1	144.17		
	108.00	434.9	245.2	144.20		
	110.00	438.3	248.7	144.22		
	112.00	441.5	251.9	144.22		
	114.00	444.5	254.8	144.23		
	116.00	447.5	257.8	144.23		
	118.00	450.6	260.9	144.23		
***** End Flow 2	120.00	454.0	264.3	144.22		
***** Start Shutin 2	0.00	454.0	0.0	144.22	0.0000	0.206
	2.00	868.4	414.4	144.23	66.0000	0.754
	4.00	953.2	499.3	144.23	33.5000	0.909

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 08/13/95

TIME: 16:17:14

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
6.00	993.5	539.6	144.23	22.6667	0.987
8.00	1020.4	566.4	144.26	17.2500	1.041
10.00	1040.4	586.4	144.31	14.0000	1.082
12.00	1056.4	602.4	144.36	11.8333	1.116
14.00	1070.2	616.3	144.40	10.2857	1.145
16.00	1081.4	627.4	144.43	9.1250	1.169
18.00	1091.6	637.6	144.45	8.2222	1.191
20.00	1100.4	646.4	144.48	7.5000	1.211
22.00	1108.7	654.7	144.50	6.9091	1.229
24.00	1115.4	661.4	144.52	6.4167	1.244
26.00	1122.0	668.1	144.55	6.0000	1.259
28.00	1127.9	673.9	144.56	5.6429	1.272
30.00	1133.4	679.5	144.58	5.3333	1.285
32.00	1138.5	684.5	144.58	5.0625	1.296
34.00	1143.3	689.3	144.61	4.8235	1.307
36.00	1147.8	693.8	144.61	4.6111	1.317
38.00	1151.8	697.9	144.62	4.4211	1.327
40.00	1156.2	702.2	144.65	4.2500	1.337
42.00	1159.1	705.2	144.63	4.0952	1.344
44.00	1162.6	708.6	144.65	3.9545	1.352
46.00	1165.7	711.8	144.65	3.8261	1.359
48.00	1168.8	714.8	144.66	3.7083	1.366
50.00	1171.5	717.6	144.67	3.6000	1.373
52.00	1174.2	720.3	144.67	3.5000	1.379
54.00	1176.9	723.0	144.69	3.4074	1.385
56.00	1179.4	725.5	144.68	3.3214	1.391
58.00	1181.6	727.7	144.69	3.2414	1.396
60.00	1183.8	729.8	144.69	3.1667	1.401
62.00	1186.1	732.2	144.70	3.0968	1.407
64.00	1188.0	734.0	144.71	3.0312	1.411
66.00	1189.8	735.9	144.71	2.9697	1.416
68.00	1191.5	737.6	144.72	2.9118	1.420
70.00	1193.2	739.2	144.73	2.8571	1.424
72.00	1194.8	740.8	144.73	2.8056	1.428
74.00	1196.4	742.4	144.74	2.7568	1.431
76.00	1197.8	743.9	144.74	2.7105	1.435
78.00	1199.5	745.5	144.73	2.6667	1.439
80.00	1200.8	746.9	144.76	2.6250	1.442
82.00	1202.2	748.2	144.76	2.5854	1.445
84.00	1203.4	749.5	144.76	2.5476	1.448
86.00	1204.4	750.5	144.76	2.5116	1.451
88.00	1205.5	751.6	144.76	2.4773	1.453
90.00	1206.6	752.7	144.78	2.4444	1.456
92.00	1207.7	753.8	144.77	2.4130	1.459
94.00	1208.8	754.8	144.77	2.3830	1.461
96.00	1209.7	755.8	144.76	2.3542	1.463
98.00	1210.6	756.6	144.78	2.3265	1.465
100.00	1211.5	757.5	144.77	2.3000	1.468
102.00	1212.4	758.5	144.82	2.2745	1.470
104.00	1213.2	759.2	144.79	2.2500	1.472
106.00	1214.0	760.1	144.77	2.2264	1.474

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 7986 DST #1 Susanna Salter #1-26 AMOCO Prod. Co.

DATE: 08/13/95

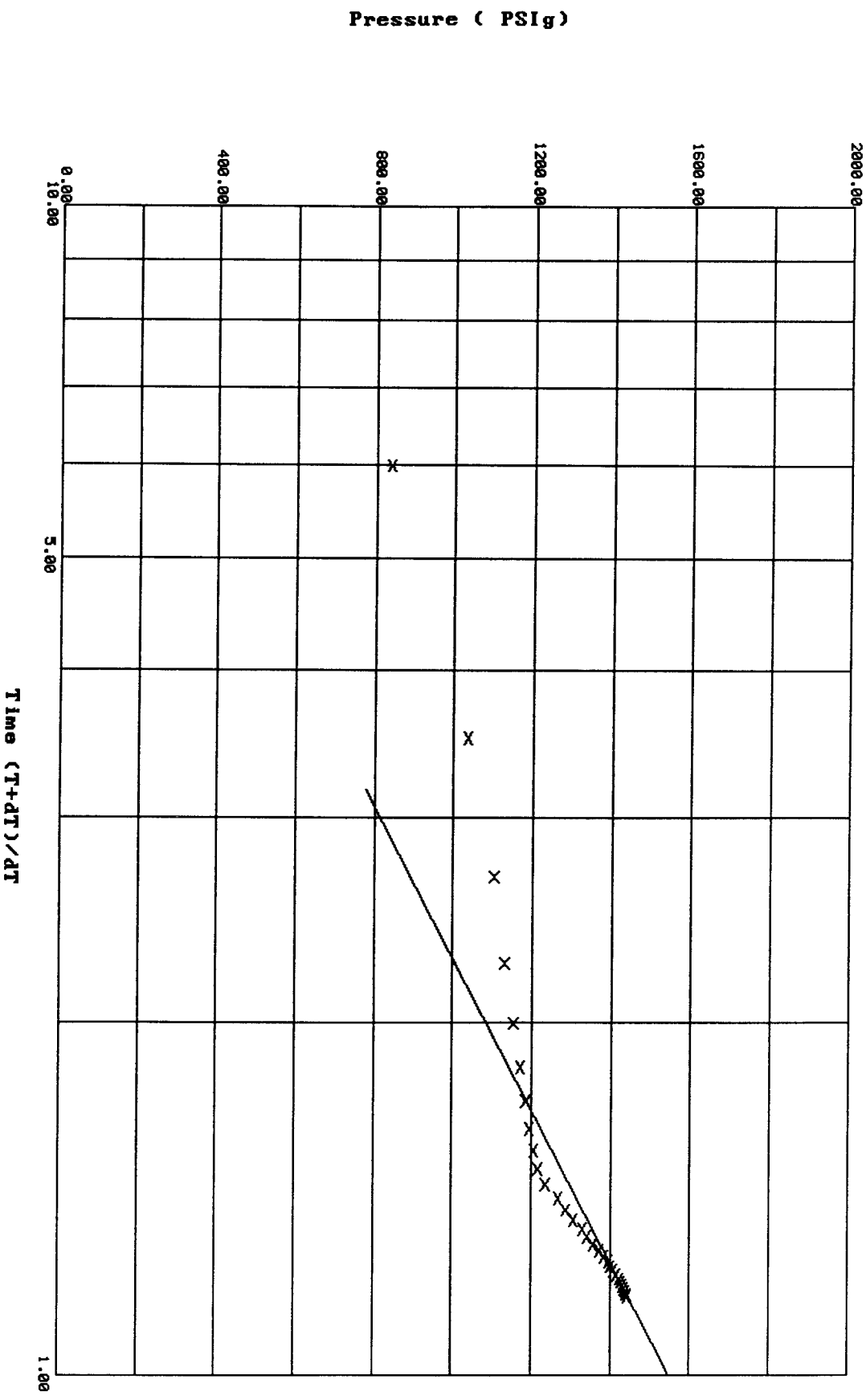
TIME: 16:17:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	108.00	1214.8	760.9	144.79	2.2037	1.476
	110.00	1215.4	761.5	144.79	2.1818	1.477
	112.00	1216.1	762.1	144.79	2.1607	1.479
	114.00	1216.9	762.9	144.76	2.1404	1.481
	116.00	1217.5	763.6	144.76	2.1207	1.482
***** End Shut-in 2	118.00	1218.1	764.2	144.77	2.1017	1.484
***** Final Hydro.	470.00	2451.9	0.0	144.61		

Horner Plot: shut-in #1

7986 DST #1 Susanna Salter #1-26 AMOCO Prod. Co.

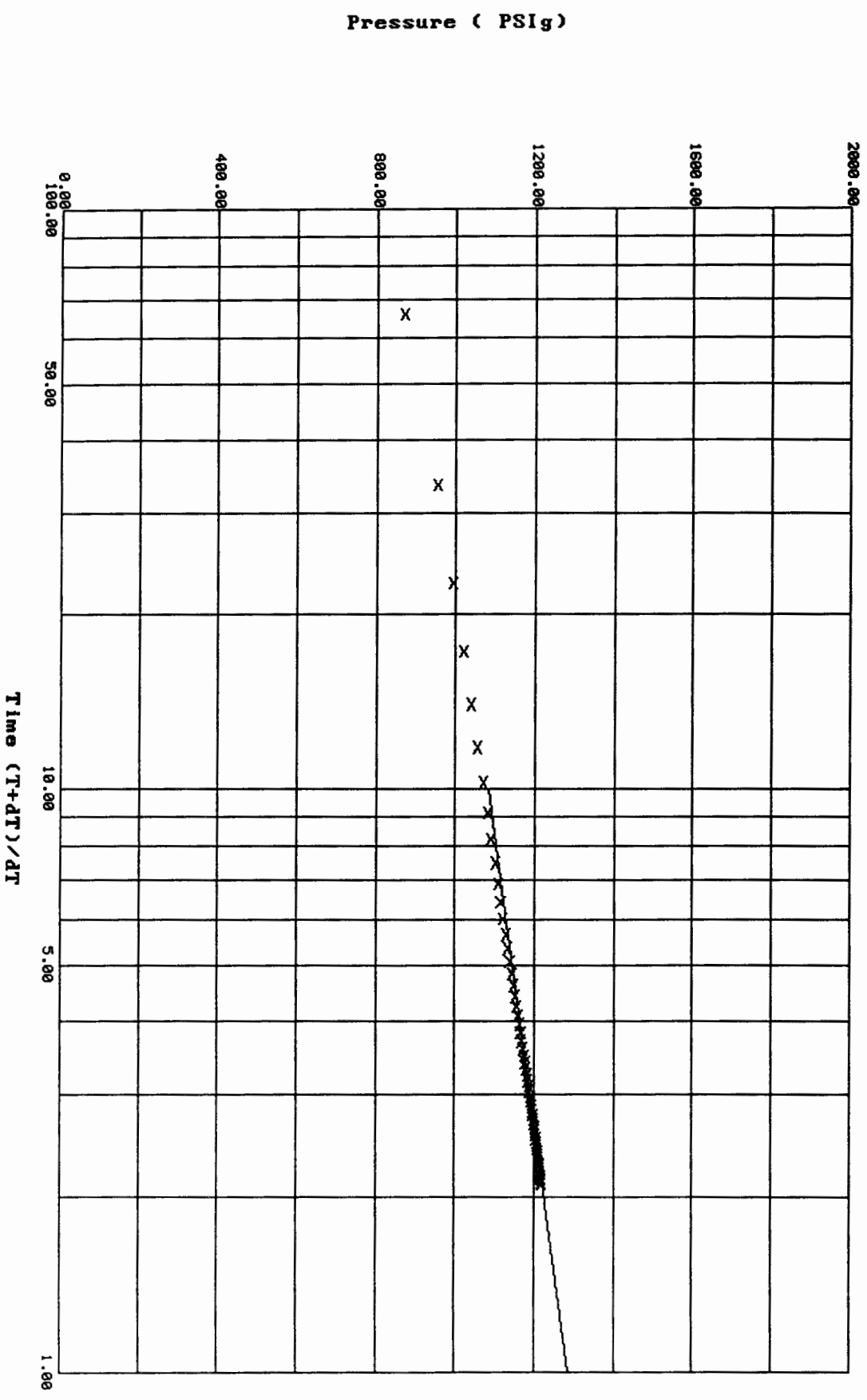
Slope: 1539.5798 PSig/cycle
Ext. Pressure: 1547.1346 PSig



Horner Plot: shut-in #2

7986 DST #1 Susanna Salter #1-26 AMOCO Prod. Co.

Slope: 202.0818 PSig/cycle
Ext. Pressure: 1284.6732 PSig



*** TOOL DIAGRAM *** CONV STRADDLE

WELL NAME: Susanna Salter #1-26

LOCATION : 26-22s-29w Hamilton KS.

TICKET No. 7986 D.S.T. No. 1 DATE 8-13-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL 85

BOTTOM PACKERS AND ANCHOR 189

TOTAL TOOL 305

DRILL COLLAR ANCHOR IN INTERVAL 237

D.C. ANCHOR STND.Stands274 Single 8 Total 0

D.P. ANCHOR STND.Stands 482 Single 74 Total 1

TOTAL ASSEMBLY 4655

D.C. ABOVE TOOLS.Stands544 Single 516 Total 9

D.P. ABOVE TOOLS.Stands Single Total

TOTAL DRILL COLLARS DRILL PIPE & TOOLS ..

TOTAL DEPTH

TOTAL DRILL PIPE ABOVE K.B.

REMARKS:

Bottom Hole Sampler Data;

Gas; 0 ml.

Oil; 0 ml.

Water; 4000 ml.

Mud; 0 ml.

Pressure; 200 psi. Total ; 4000 ml.

W .31 @ 70 deg. F = 23000 Chlorides

P.O. SUB	5014
C.O. SUB	5134
S.I. TOOL Shut-in Tool	5135
Bttm. Hole Sampler	5140
HMV Hydraulic Tool	5143
JARS	5148
SAFETY JOINT	5153
PACKER TOP	5155
PACKER BOTTOM	5160
DEPTH 5160	5160
STUBB 5161	
ANCHOR	
60' 6.75 XH D.C.	5221
Elec. Rec.@	5227
15' Perf.	
w/AK-1 Rec @	5235
Blank Off Sub 1'	5239
T.C. straddle packer to	5240
DEPTH 5245	
PACKER STRADDLE PACKER	5245
	5246
4' Perf.	5250
Change over Sub 1'	5251
177' 6.25 XH D.C.	5428
Change Over Sub 1'	5429
BULLNOSE	
T.D. 5' Perf. @ LTD	5434