

Well Name: JOHNSTON #1
Company : BECKER OIL CORPORATION
Location - Sec: 13 **Twp:** 26S **Rge:** 34W
County: FINNEY **State:** KS
Date: 12/7/95

TRILOBITE TESTING L.L.C.

OPERATOR : Becker Oil Corporation DATE 12-7-95
 WELL NAME: Johnston #1 KB 2933.00 ft TICKET NO: 8496 DST #1
 LOCATION : 13-26S-34W, Finney Cty KS GR 2925.00 ft FORMATION: Marmaton
 INTERVAL : 4508.00 To 4560.00 ft TD 4560.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 20 Rec.	11058	11058	2351			PF Fr. 1513 to 1533 hr
SI 40 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1533 to 1613 hr
SF 60 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 1613 to 1713 hr
FS 120 Depth(ft)	4555.0	4555.0	4510.0	0.0	0.0	FS Fr. 1713 to 1913 hr

	Field	1	2	3	4	
A. Init Hydro	2400.0	2197.0	2175.0	0.0	0.0	T STARTED 1318 hr
B. First Flow	78.0	72.0	34.0	0.0	0.0	T ON BOTM 1508 hr
B1. Final Flow	95.0	83.0	86.0	0.0	0.0	T OPEN 1513 hr
C. In Shut-in	1118.0	1093.0	1121.0	0.0	0.0	T PULLED 1913 hr
D. Init Flow	156.0	138.0	96.0	0.0	0.0	T OUT 2130 hr
E. Final Flow	190.0	183.0	190.0	0.0	0.0	
F. Fl Shut-in	1130.0	1103.0	1126.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2377.0	2152.0	2163.0	0.0	0.0	Tool Wt. 5000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 76000.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 71000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 671.00 ft
						D.P. Length 3834.00 ft

RECOVERY

Tot Fluid 457.00 ft of 457.00 ft in DC and 0.00 ft in DP
 1515.00 ft of Gas in pipe
 274.00 ft of Clean gassy oil - 50% gas, 50% oil
 183.00 ft of Gassy oil cut mud - 20% gas, 20% oil, 60% mud

SALINITY 0.00 P.P.M. A.P.I. Gravity 40.00

BLOW DESCRIPTION

Initial Flow -
 Bottom of bucket in 3 min

Initial Shutin -
 Bled blow return in 5 min, very weak surface blow

Final Flow -
 Bottom of bucket in 2 min

Final Shutin -
 Bled blow, return in 5 min built to .5"

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	43.00 S/L
W.L.	9.80 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 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	Shane McBride
Co. Rep.	Clyde Becker
Contr.	Cheyenne
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL COLLARS

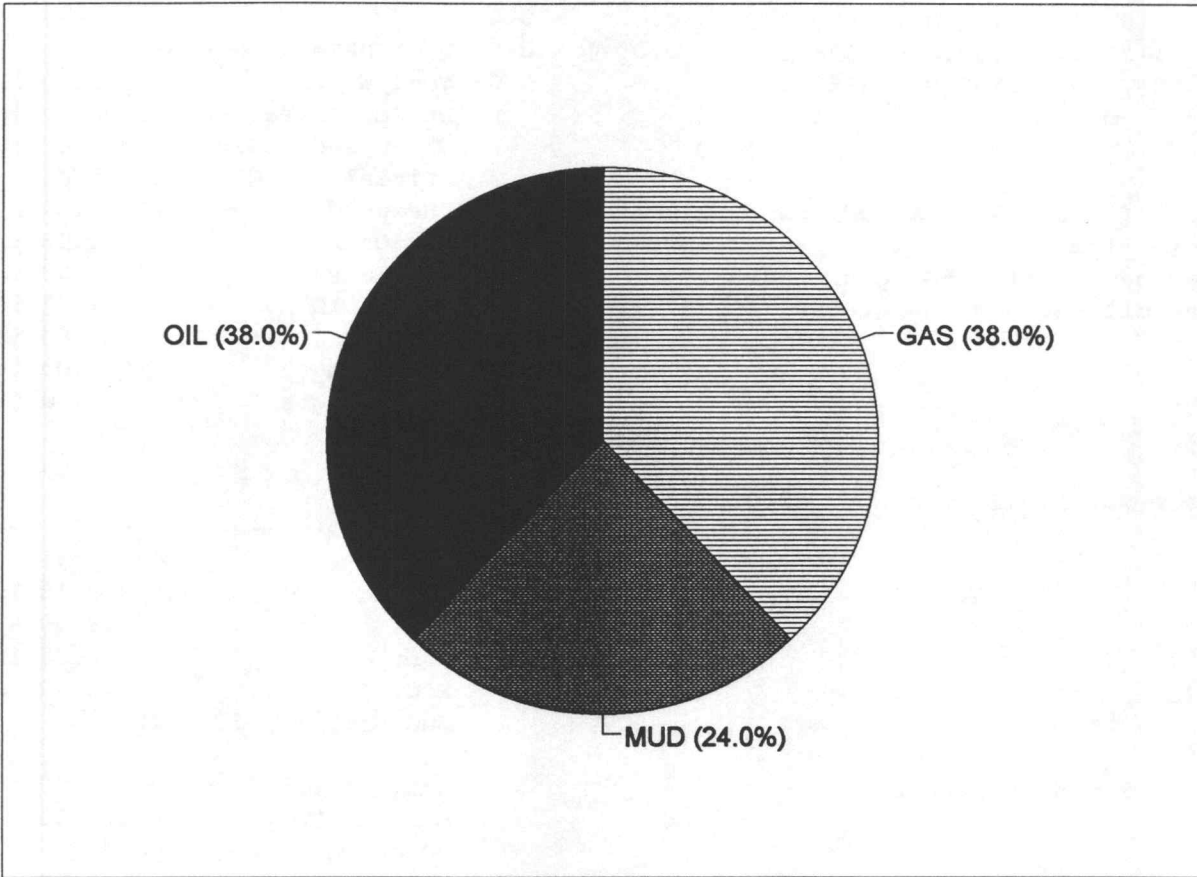
DST # 1

TICKET # 8496

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	274	50	137	50	137		0		0
2	183	20	36.6	20	36.6		0	60	109.8
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	457	37.99	173.6	37.99	173.6	0.00	0	24.02626	109.8

HRS OPE BBL/DAY

BBL OIL= 0.848904 * 1.33 15.31857
 BBL WAT 0 * 0
 BBL MUD: 0.536922
 BBL GAS: 0.848904



TEST HISTORY

8496 DST #1 Johnston #1 Becker Oil Corp.

Flag Points

t (Min.)	P (PSig)
A: 0.00	2175.06
B: 0.00	33.65
C: 19.00	86.44
D: 40.00	1120.65
E: 0.00	95.50
F: 59.00	189.75
G: 119.00	1126.47
Q: 0.00	2163.32

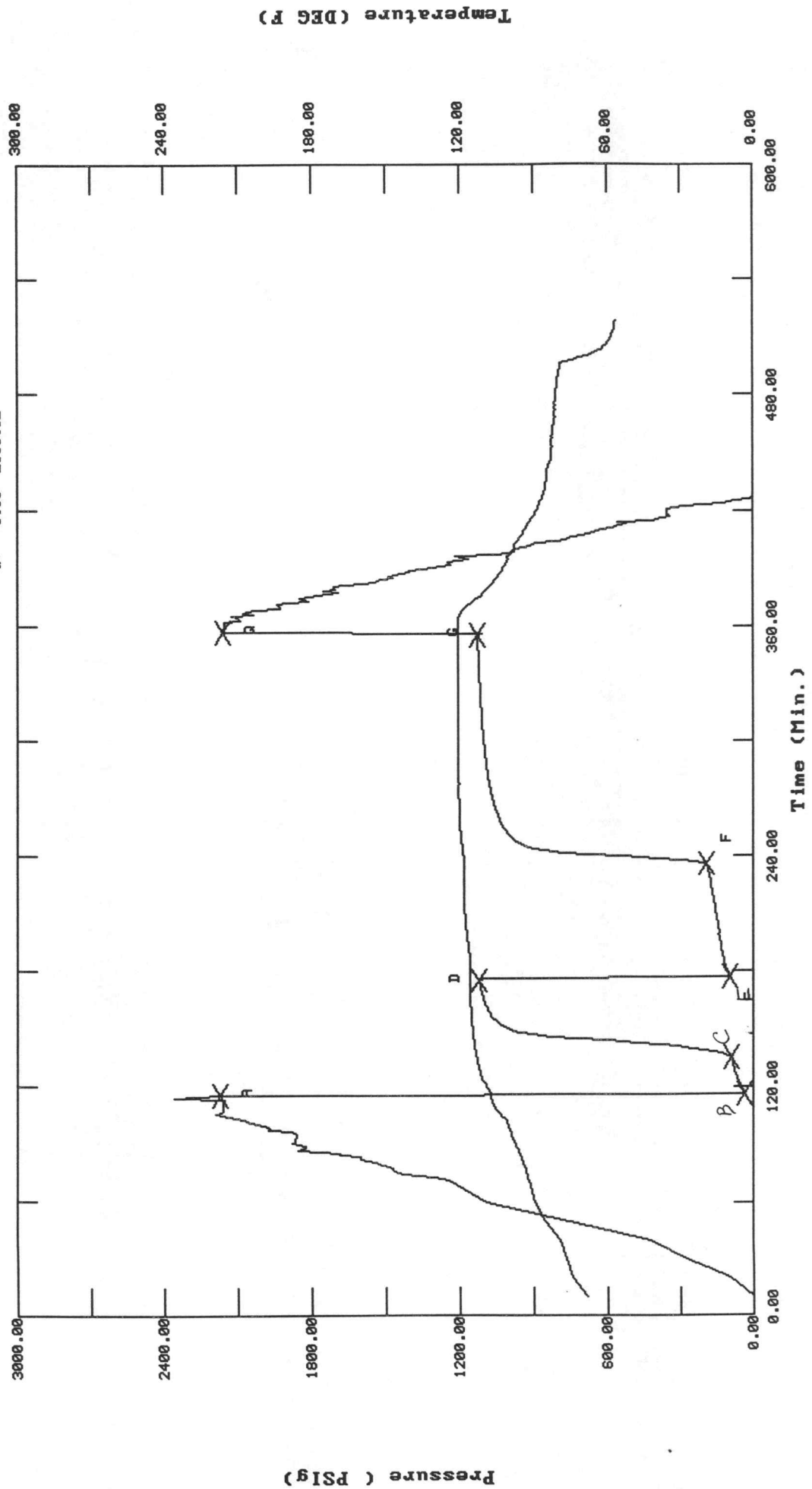
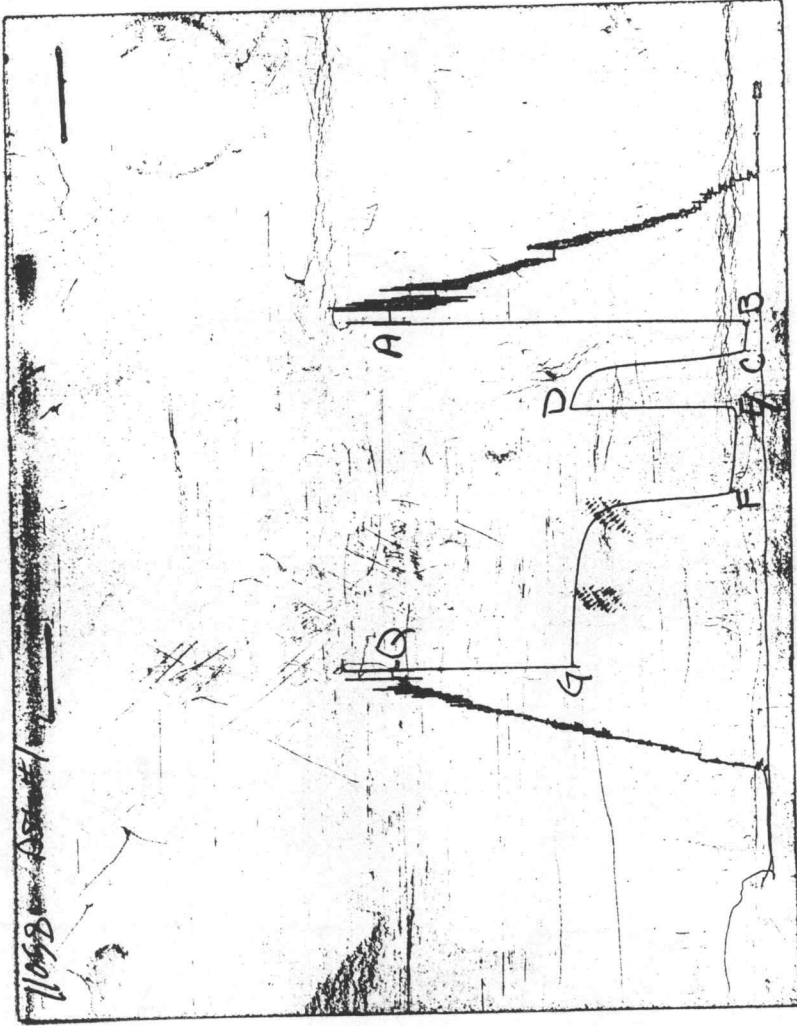


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8496 DST #1 Johnston #1 Becker Oil Corp.

DATE: 12/07/95

TIME: 13:19:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	115.00	2175.1	0.0	107.24		
***** Start Flow 1	0.00	33.6	0.0	107.42		
	1.00	36.6	2.9	107.60		
	2.00	41.1	7.5	107.96		
	3.00	45.6	11.9	108.50		
	4.00	48.7	15.0	109.04		
	5.00	51.7	18.0	109.40		
	6.00	55.5	21.8	109.94		
	7.00	59.1	25.4	110.30		
	8.00	62.3	28.6	110.66		
	9.00	65.7	32.1	111.02		
	10.00	69.1	35.4	111.38		
	11.00	71.9	38.3	111.56		
	12.00	74.0	40.4	111.74		
	13.00	76.4	42.8	111.92		
	14.00	78.2	44.6	112.28		
	15.00	79.9	46.2	112.28		
	16.00	81.7	48.1	112.46		
	17.00	83.3	49.7	112.64		
	18.00	84.6	50.9	112.82		
***** End Flow 1	19.00	86.4	52.8	113.00		
***** Start Shutin 1	0.00	86.4	0.0	113.00	0.0000	0.007
	1.00	97.6	11.2	113.18	20.0000	0.01
	2.00	128.2	41.8	113.36	10.5000	0.016
	3.00	162.3	75.9	113.36	7.3333	0.026
	4.00	202.7	116.2	113.54	5.7500	0.041
	5.00	251.7	165.3	113.72	4.8000	0.063
	6.00	310.1	223.7	113.90	4.1667	0.096
	7.00	382.4	295.9	113.90	3.7143	0.146
	8.00	479.6	393.2	114.08	3.3750	0.230
	9.00	600.5	514.1	114.08	3.1111	0.361
	10.00	727.1	640.7	114.26	2.9000	0.529
	11.00	832.2	745.8	114.44	2.7273	0.693
	12.00	906.5	820.1	114.44	2.5833	0.822
	13.00	955.2	868.7	114.62	2.4615	0.912
	14.00	982.6	896.2	114.80	2.3571	0.966
	15.00	1004.3	917.8	114.80	2.2667	1.009
	16.00	1020.1	933.7	114.80	2.1875	1.041
	17.00	1032.5	946.0	114.98	2.1176	1.066
	18.00	1042.4	955.9	114.98	2.0556	1.087
	19.00	1050.9	964.4	115.16	2.0000	1.104
	20.00	1058.1	971.6	115.16	1.9500	1.120
	21.00	1064.5	978.1	115.16	1.9048	1.133
	22.00	1070.3	983.9	115.34	1.8636	1.146
	23.00	1075.4	988.9	115.34	1.8261	1.156
	24.00	1079.9	993.5	115.34	1.7917	1.166
	25.00	1084.2	997.7	115.34	1.7600	1.175
	26.00	1088.0	1001.6	115.34	1.7308	1.184
	27.00	1091.6	1005.2	115.52	1.7037	1.192
	28.00	1095.0	1008.6	115.52	1.6786	1.199
	29.00	1097.9	1011.5	115.52	1.6552	1.205

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	30.00	1100.8	1014.4	115.52	1.6333	1.212
	31.00	1103.4	1017.0	115.52	1.6129	1.217
	32.00	1105.8	1019.4	115.52	1.5938	1.223
	33.00	1108.1	1021.7	115.70	1.5758	1.228
	34.00	1110.2	1023.8	115.70	1.5588	1.233
	35.00	1112.3	1025.8	115.70	1.5429	1.237
	36.00	1114.0	1027.6	115.70	1.5278	1.241
	37.00	1116.0	1029.5	115.70	1.5135	1.245
	38.00	1117.6	1031.1	115.70	1.5000	1.249
	39.00	1119.3	1032.8	115.70	1.4872	1.253
***** End Shut-in 1	40.00	1120.8	1034.4	115.70	1.4750	1.256
***** Start Flow 2	0.00	95.5	0.0	115.70		
	1.00	99.7	4.2	115.70		
	2.00	102.0	6.5	115.70		
	3.00	104.8	9.3	115.52		
	4.00	107.8	12.3	115.52		
	5.00	109.9	14.4	115.52		
	6.00	111.7	16.2	115.52		
	7.00	115.1	19.6	115.70		
	8.00	116.2	20.7	115.70		
	9.00	118.7	23.2	115.70		
	10.00	119.0	23.5	115.88		
	11.00	121.7	26.2	115.88		
	12.00	122.1	26.6	115.88		
	13.00	124.4	28.9	116.06		
	14.00	126.8	31.3	116.24		
	15.00	128.1	32.6	116.24		
	16.00	127.7	32.2	116.42		
	17.00	130.2	34.7	116.42		
	18.00	131.9	36.4	116.60		
	19.00	134.6	39.1	116.78		
	20.00	134.8	39.3	116.78		
	21.00	136.0	40.5	116.96		
	22.00	139.2	43.7	116.96		
	23.00	137.7	42.2	117.14		
	24.00	138.5	43.0	117.14		
	25.00	141.1	45.6	117.32		
	26.00	142.7	47.2	117.32		
	27.00	140.9	45.4	117.50		
	28.00	142.9	47.4	117.50		
	29.00	144.4	48.9	117.50		
	30.00	146.2	50.7	117.68		
	31.00	146.8	51.3	117.68		
	32.00	148.9	53.4	117.68		
	33.00	149.6	54.1	117.68		
	34.00	151.2	55.7	117.86		
	35.00	152.6	57.1	117.86		
	36.00	154.6	59.1	117.86		
	37.00	155.4	59.9	117.86		
	38.00	156.5	61.0	117.86		
	39.00	157.6	62.1	117.86		

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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	40.00	158.8	63.3	117.86		
	41.00	161.3	65.8	118.04		
	42.00	161.9	66.4	118.04		
	43.00	164.0	68.5	118.04		
	44.00	165.1	69.6	118.04		
	45.00	166.3	70.8	118.04		
	46.00	168.5	73.0	118.04		
	47.00	169.2	73.7	118.04		
	48.00	170.4	74.9	118.04		
	49.00	172.9	77.4	118.22		
	50.00	173.7	78.2	118.22		
	51.00	174.7	79.2	118.22		
	52.00	176.9	81.4	118.22		
	53.00	178.1	82.6	118.22		
	54.00	179.4	83.9	118.22		
	55.00	181.8	86.3	118.22		
	56.00	183.2	87.7	118.22		
	57.00	185.7	90.2	118.40		
	58.00	188.9	93.4	118.40		
***** End Flow 2	59.00	189.8	94.3	118.40		
***** Start Shutin 2	0.00	189.8	0.0	118.40	0.0000	0.036
	1.00	232.3	42.6	118.40	79.0000	0.054
	2.00	296.0	106.3	118.40	40.0000	0.088
	3.00	395.1	205.4	118.40	27.0000	0.156
	4.00	536.3	346.5	118.40	20.5000	0.288
	5.00	676.7	486.9	118.58	16.6000	0.458
	6.00	785.7	596.0	118.58	14.0000	0.617
	7.00	855.0	665.3	118.76	12.1429	0.731
	8.00	897.2	707.4	118.76	10.7500	0.805
	9.00	924.3	734.5	118.94	9.6667	0.854
	10.00	943.4	753.7	118.94	8.8000	0.890
	11.00	958.1	768.4	119.12	8.0909	0.918
	12.00	970.0	780.3	119.12	7.5000	0.941
	13.00	979.9	790.2	119.30	7.0000	0.960
	14.00	988.5	798.7	119.30	6.5714	0.977
	15.00	996.1	806.4	119.48	6.2000	0.992
	16.00	1002.8	813.0	119.48	5.8750	1.006
	17.00	1008.7	819.0	119.48	5.5882	1.018
	18.00	1014.3	824.5	119.66	5.3333	1.029
	19.00	1019.4	829.6	119.66	5.1053	1.039
	20.00	1023.9	834.2	119.66	4.9000	1.048
	21.00	1028.3	838.5	119.66	4.7143	1.057
	22.00	1032.1	842.4	119.84	4.5455	1.065
	23.00	1036.0	846.2	119.84	4.3913	1.073
	24.00	1039.5	849.8	119.84	4.2500	1.081
	25.00	1042.9	853.1	119.84	4.1200	1.088
	26.00	1045.9	856.1	120.02	4.0000	1.094
	27.00	1048.8	859.1	120.02	3.8889	1.100
	28.00	1051.5	861.8	120.02	3.7857	1.106
	29.00	1054.1	864.4	120.02	3.6897	1.111
	30.00	1056.6	866.8	120.02	3.6000	1.116

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
31.00	1059.0	869.2	120.02	3.5161	1.121
32.00	1061.3	871.5	120.20	3.4375	1.126
33.00	1063.4	873.7	120.20	3.3636	1.131
34.00	1065.5	875.7	120.20	3.2941	1.135
35.00	1067.4	877.6	120.38	3.2286	1.139
36.00	1069.2	879.5	120.38	3.1667	1.143
37.00	1071.1	881.3	120.38	3.1081	1.147
38.00	1072.8	883.1	120.38	3.0526	1.151
39.00	1074.5	884.8	120.38	3.0000	1.155
40.00	1076.0	886.3	120.38	2.9500	1.158
41.00	1077.5	887.7	120.38	2.9024	1.161
42.00	1079.0	889.2	120.20	2.8571	1.164
43.00	1080.4	890.6	120.38	2.8140	1.167
44.00	1081.7	891.9	120.38	2.7727	1.170
45.00	1083.1	893.3	120.56	2.7333	1.173
46.00	1084.3	894.6	120.56	2.6957	1.176
47.00	1085.5	895.8	120.56	2.6596	1.178
48.00	1086.7	896.9	120.56	2.6250	1.181
49.00	1087.9	898.1	120.56	2.5918	1.183
50.00	1089.0	899.2	120.56	2.5600	1.186
51.00	1090.0	900.2	120.56	2.5294	1.188
52.00	1091.1	901.3	120.56	2.5000	1.190
53.00	1092.0	902.2	120.56	2.4717	1.192
54.00	1093.0	903.2	120.56	2.4444	1.195
55.00	1093.9	904.2	120.56	2.4182	1.197
56.00	1094.9	905.2	120.56	2.3929	1.199
57.00	1095.8	906.0	120.56	2.3684	1.201
58.00	1096.6	906.8	120.56	2.3448	1.203
59.00	1097.4	907.7	120.56	2.3220	1.204
60.00	1098.3	908.5	120.56	2.3000	1.206
61.00	1099.1	909.4	120.56	2.2787	1.208
62.00	1099.9	910.2	120.56	2.2581	1.210
63.00	1100.5	910.7	120.56	2.2381	1.211
64.00	1101.4	911.6	120.56	2.2188	1.213
65.00	1102.1	912.4	120.56	2.2000	1.215
66.00	1102.8	913.1	120.56	2.1818	1.216
67.00	1103.6	913.9	120.56	2.1642	1.218
68.00	1104.2	914.5	120.56	2.1471	1.219
69.00	1104.9	915.1	120.56	2.1304	1.221
70.00	1105.6	915.8	120.56	2.1143	1.222
71.00	1106.2	916.5	120.56	2.0986	1.224
72.00	1106.8	917.1	120.56	2.0833	1.225
73.00	1107.5	917.8	120.56	2.0685	1.227
74.00	1108.1	918.3	120.56	2.0541	1.228
75.00	1108.8	919.0	120.56	2.0400	1.229
76.00	1109.3	919.5	120.56	2.0263	1.230
77.00	1109.8	920.0	120.56	2.0130	1.232
78.00	1110.4	920.6	120.56	2.0000	1.233
79.00	1110.9	921.2	120.56	1.9873	1.234
80.00	1111.4	921.7	120.56	1.9750	1.235
81.00	1112.0	922.2	120.56	1.9630	1.236

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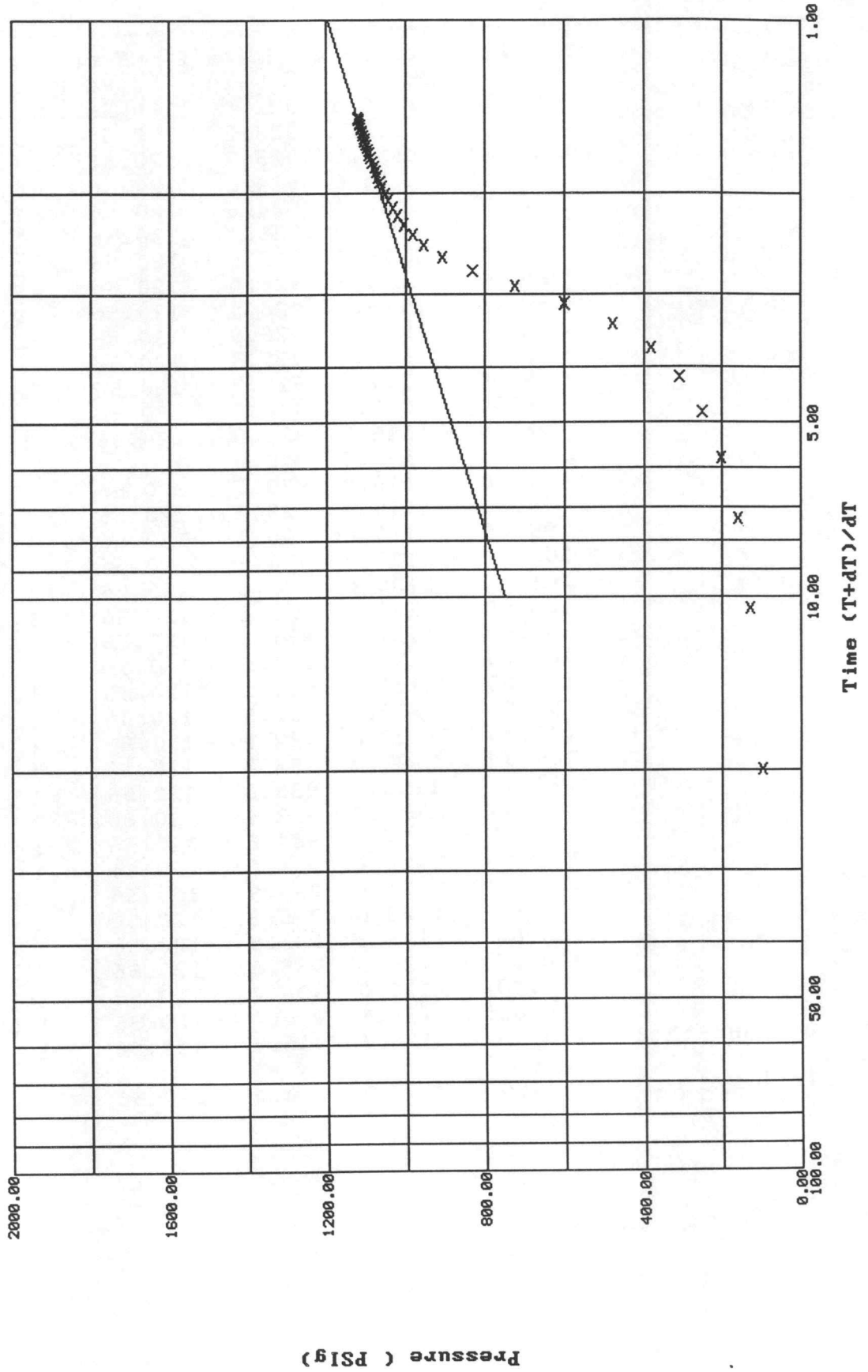
Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
82.00	1112.4	922.6	120.56	1.9512	1.237
83.00	1113.0	923.2	120.56	1.9398	1.239
84.00	1113.5	923.7	120.56	1.9286	1.240
85.00	1114.0	924.2	120.56	1.9176	1.241
86.00	1114.4	924.6	120.56	1.9070	1.242
87.00	1114.9	925.1	120.56	1.8966	1.243
88.00	1115.3	925.6	120.56	1.8864	1.244
89.00	1115.7	926.0	120.56	1.8764	1.245
90.00	1116.1	926.4	120.56	1.8667	1.246
91.00	1116.7	926.9	120.56	1.8571	1.247
92.00	1117.1	927.3	120.56	1.8478	1.248
93.00	1117.5	927.7	120.56	1.8387	1.249
94.00	1117.9	928.2	120.56	1.8298	1.250
95.00	1118.2	928.5	120.56	1.8211	1.250
96.00	1118.6	928.8	120.56	1.8125	1.251
97.00	1118.9	929.2	120.56	1.8041	1.252
98.00	1119.4	929.7	120.56	1.7959	1.253
99.00	1119.8	930.1	120.56	1.7879	1.254
100.00	1120.2	930.4	120.56	1.7800	1.255
101.00	1120.6	930.8	120.56	1.7723	1.256
102.00	1120.8	931.1	120.56	1.7647	1.256
103.00	1121.4	931.6	120.56	1.7573	1.257
104.00	1121.7	931.9	120.56	1.7500	1.258
105.00	1121.9	932.2	120.56	1.7429	1.259
106.00	1122.3	932.5	120.56	1.7358	1.259
107.00	1122.6	932.9	120.56	1.7290	1.260
108.00	1122.9	933.2	120.56	1.7222	1.261
109.00	1123.4	933.6	120.56	1.7156	1.262
110.00	1123.6	933.9	120.56	1.7091	1.263
111.00	1124.0	934.3	120.56	1.7027	1.263
112.00	1124.4	934.6	120.56	1.6964	1.264
113.00	1124.6	934.9	120.56	1.6903	1.265
114.00	1125.0	935.2	120.56	1.6842	1.266
115.00	1125.3	935.5	120.56	1.6783	1.266
116.00	1125.5	935.8	120.56	1.6724	1.267
117.00	1126.0	936.2	120.56	1.6667	1.268
118.00	1126.1	936.4	120.56	1.6610	1.268
119.00	1126.5	936.7	120.56	1.6555	1.269
***** End Shut-in 2					
***** Final Hydro.	357.00	2163.3	0.0	120.56	

Horner Plot: shut-in #1

8496 DST #1 Johnston #1 Becker Oil Corp.

Slope: 442.7189 PSig/cycle

Ext. Pressure: 1195.5739 PSig

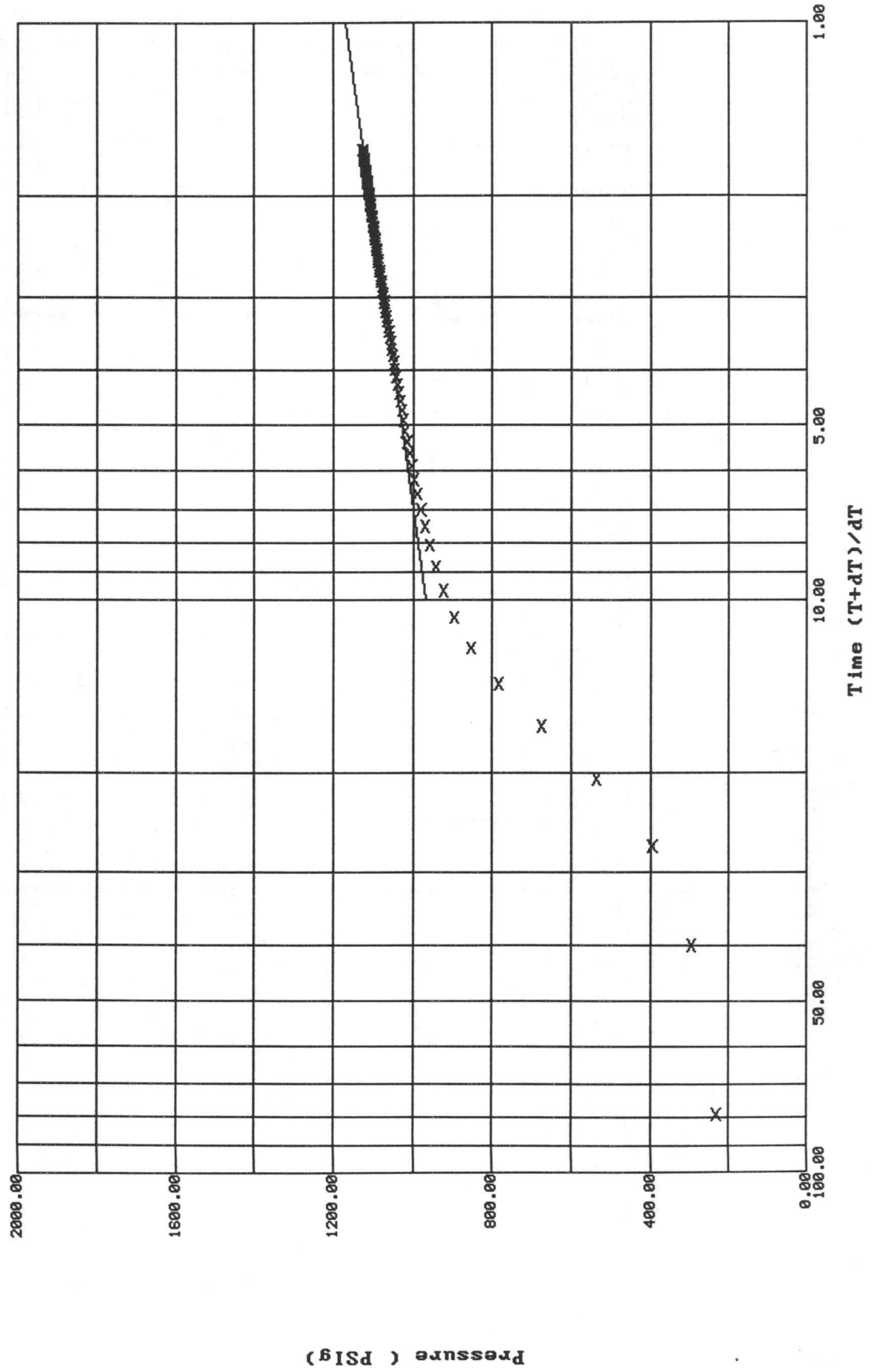


Horner Plot: shut-in #2

8496 DST #1 Johnston #1 Becker Oil Corp.

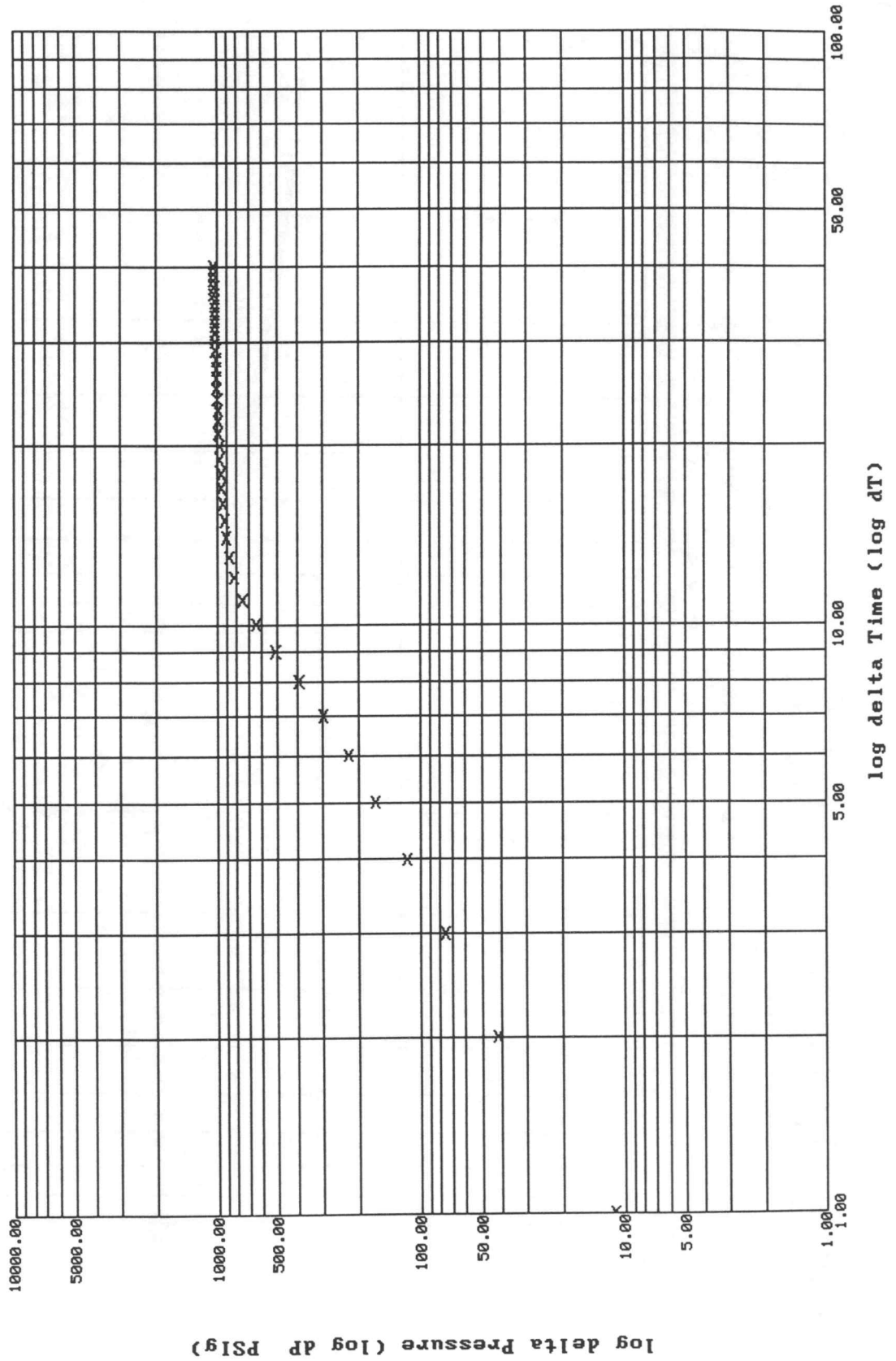
Slope: 202.6378 PSig/cycle

Ext. Pressure: 1170.8408 PSig



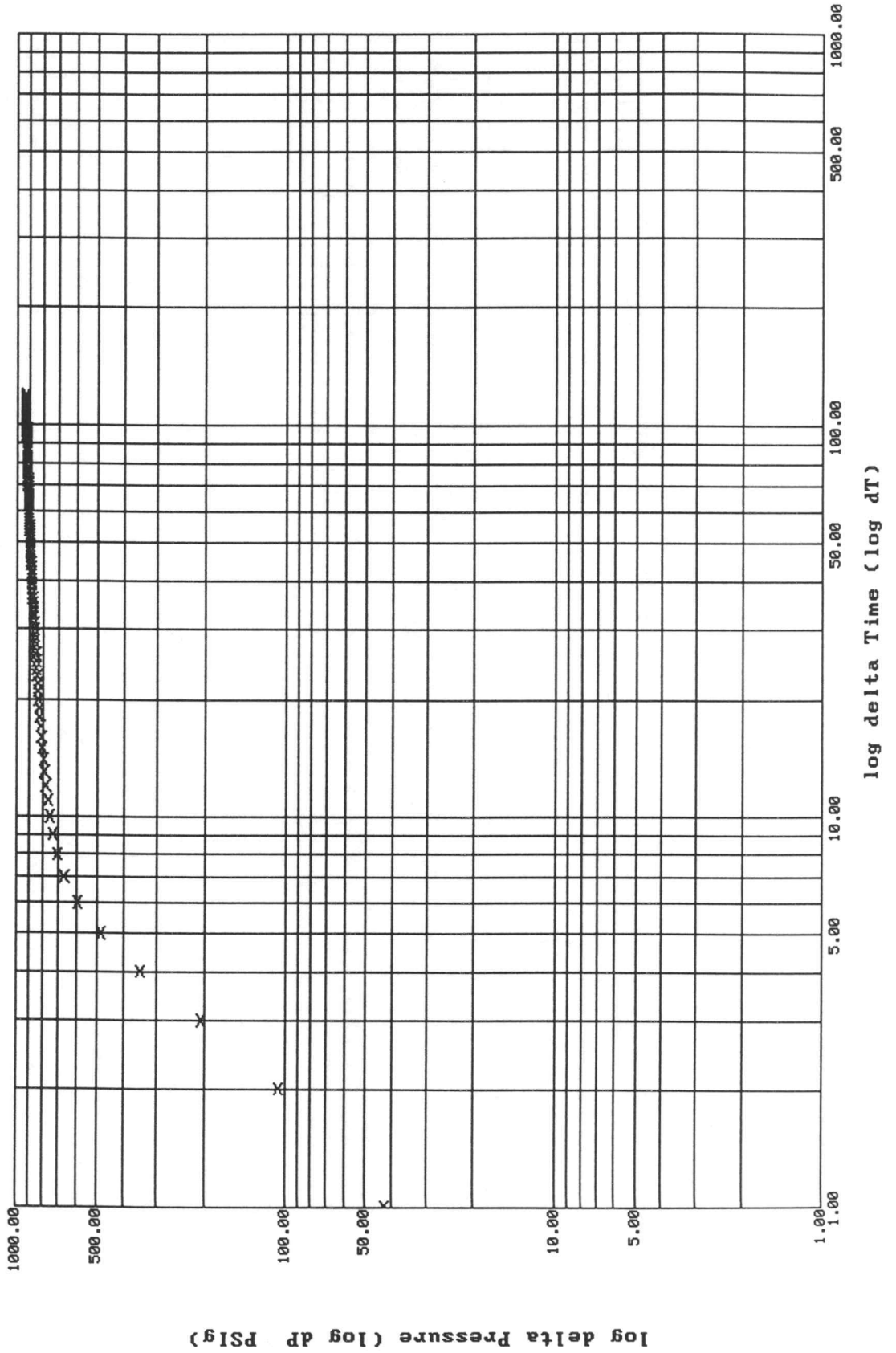
Ramey Plot: shut-in #1

8496 DST #1 Johnston #1 Becker Oil Corp.



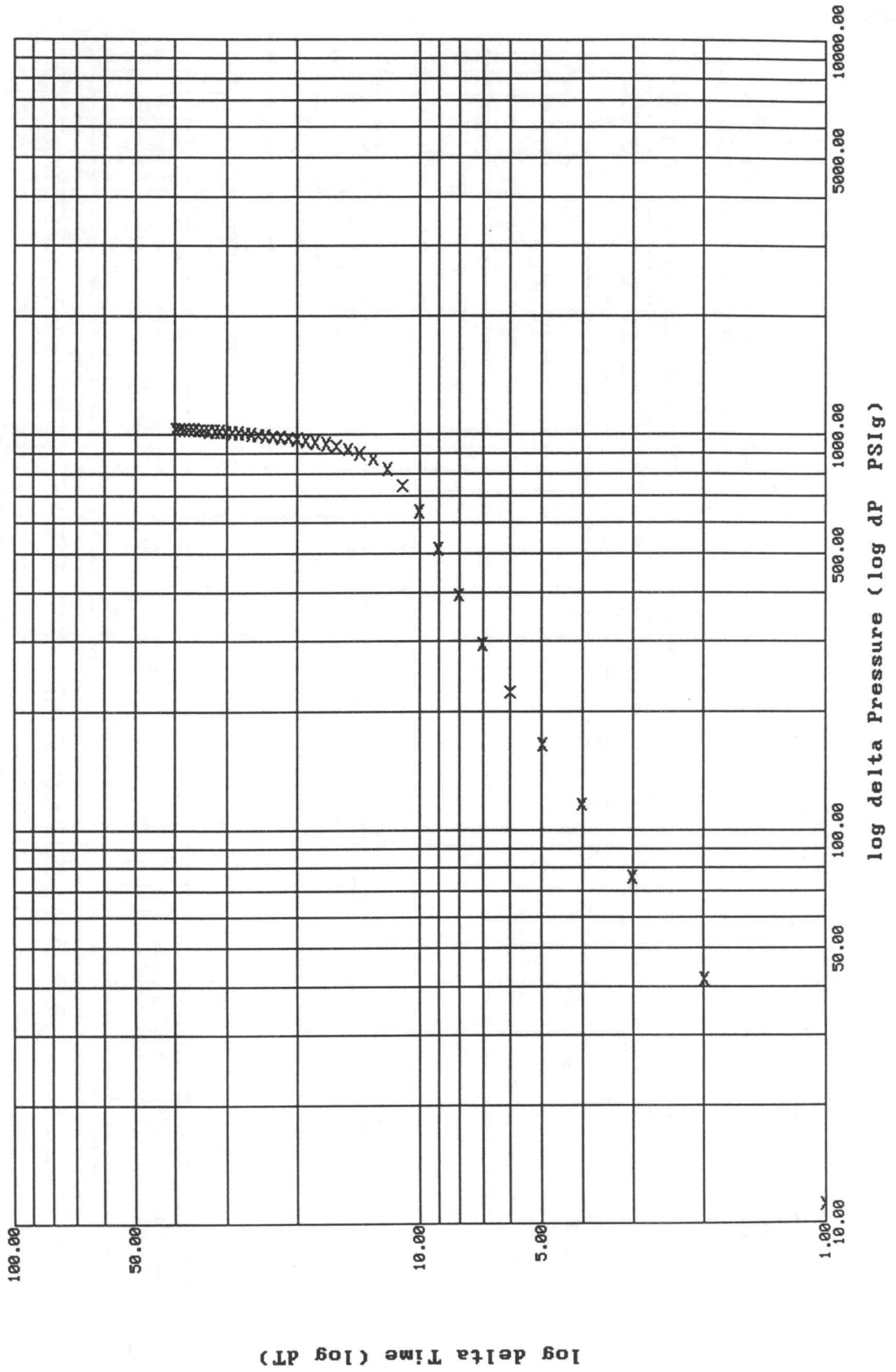
Ramey Plot: shut-in #2

8496 DST #1 Johnston #1 Becker Oil Corp.



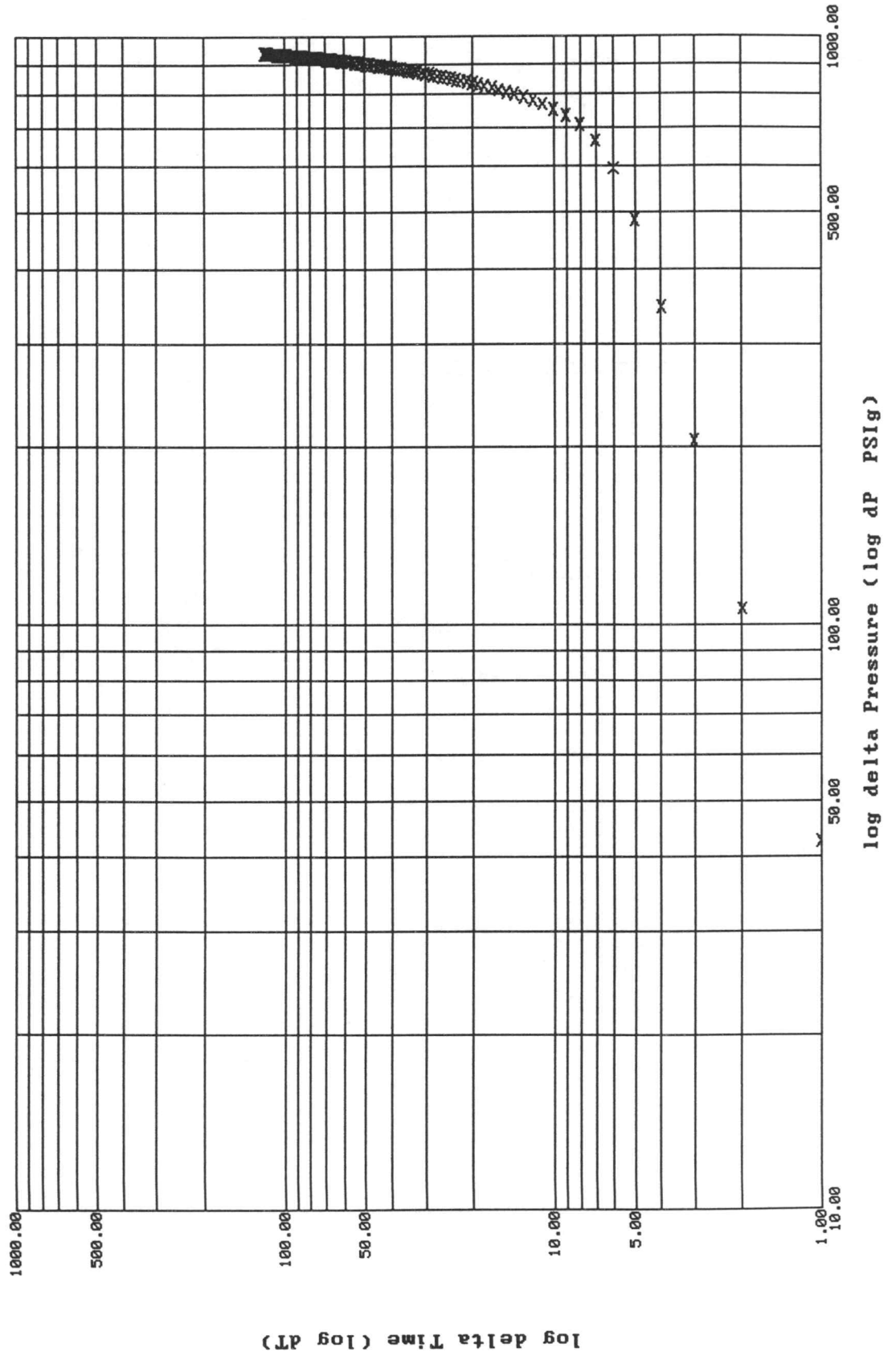
McKinley Plot: shut-in #1

8496 DST #1 Johnston #1 Becker Oil Corp.



McKinley Plot: shut-in #2

8496 DST #1 Johnston #1 Becker Oil Corp.



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Johnston #1

LOCATION : 13-26S-34W, Finney Cty KS

TICKET No. 8496 D.S.T. No. 1 DATE 12-7-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 21

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 79

D.C. ABOVE TOOLS.Stands11 Single Total 671

D.P. ABOVE TOOLS.Stands61 Single 1 Total 3834

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4584

TOTAL DEPTH 4560

TOTAL DRILL PIPE ABOVE K.B. 24

REMARKS:

	P.O. SUB	
	C.O. SUB 1' double pin	4481
	S.I. TOOL 5'	4487
	HMV 5'	4492
	JARS 5'	4497
	SAFETY JOINT 2'	4499
	PACKER top	4503
	PACKER bottom	4508
	DEPTH 4508	
	STUBB 1'	4509
	ANCHOR	
	Alpine recorder	4510
	5' perf	4514
	5' perf	4519
	T.C.	
	DEPTH	
	5' perf	4524
	31' drill pipe	4555
	AK-1 recorder	4555
	BULLNOSE 5' bull plug	
	T.D.	4560