



00500195

WELL NAME: Dicks Brown #1-26
OPERATOR: Amoco Production Company
LOCATION: Sec 26 Twp 15S Rge 43W
Cheyenne County Colorado
DATE: 04/20/96

CALCULATED RECOVERY ANALYSIS

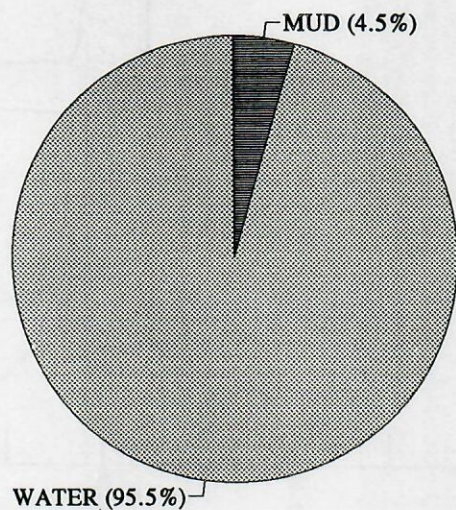
DST # 1

TICKET 9165

SAMPLE #	TOTAL FEET	GAS %	FEET	OIL %	FEET	WATER %	FEET	MUD %	FEET
DRL PIPE 1	330		0		0	70	231	30	99
2	1663		0		0	100	1663		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WGT PIPE 1			0		0		0		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
COLLARS 1	557		0		0	100	557		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	2550		0		0		2451		99

HRS OPE BBL/DAY

BBL OIL= 0 * 1.25 0
 BBL WATER= 29.65641 * 569.403
 BBL MUD= 1.40778
 BBL GAS = 0



TEST HISTORY

9165 DST #1 DICKS BROWN #1-26 AMOCO

Flag Points

t(Min.) P(PSig)

A: 0.00 2054.21
B: 0.00 466.88
C: 12.00 752.66
D: 31.00 1133.60
E: 0.00 781.61
F: 58.00 1127.65
G: 121.00 1137.10
Q: 0.00 2016.27

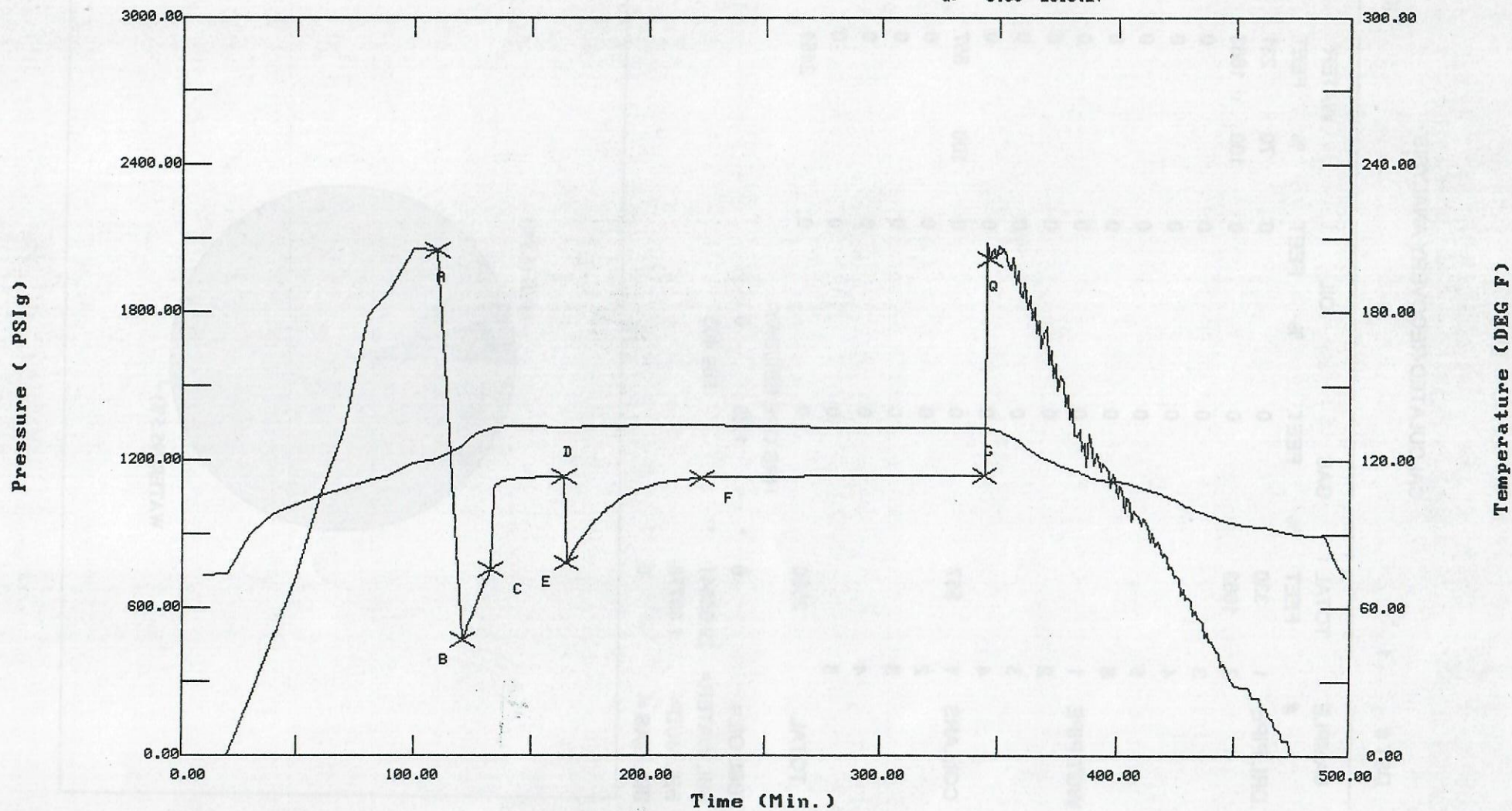
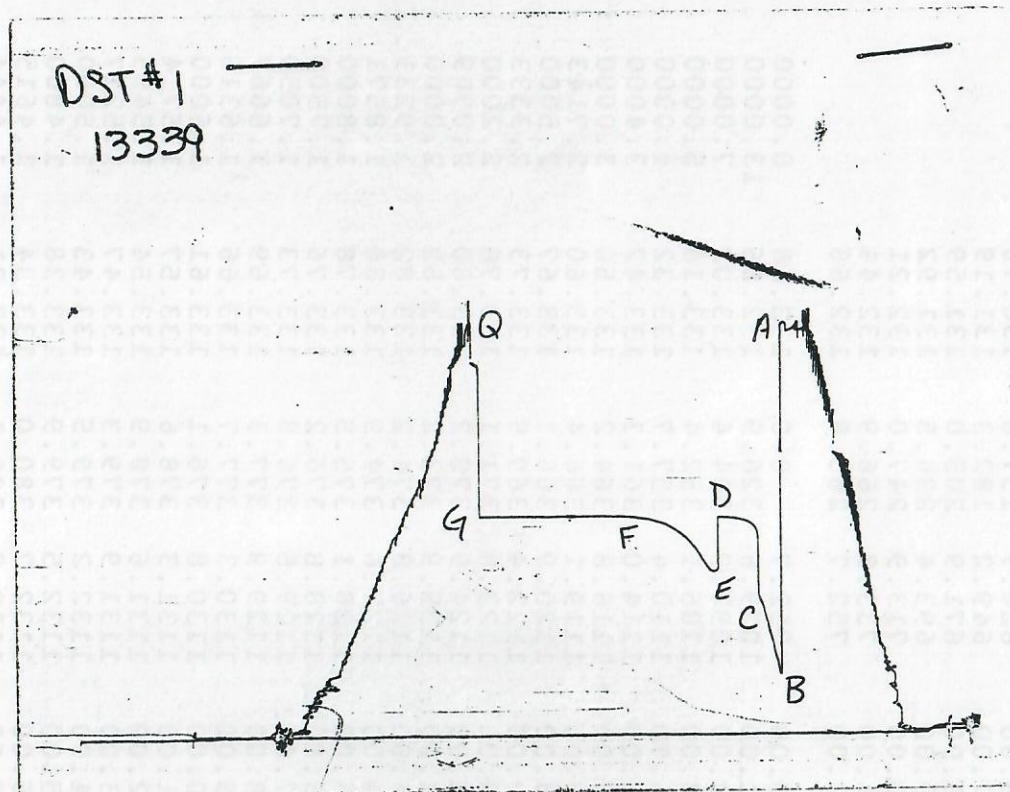


CHART PAGE



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

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9165 DST #1 DICKS BROWN #1-26 AMOCO

DATE: 04/15/96 TIME: 15:26:45

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	110.00	2054.2	0.0	120.61		
***** Start Flow 1	0.00	466.9	0.0	125.87		
	1.00	495.8	28.9	126.99		
	2.00	521.8	54.9	127.96		
	3.00	549.1	82.2	128.80		
	4.00	575.3	108.4	129.54		
	5.00	600.6	133.7	130.18		
	6.00	624.7	157.8	130.73		
	7.00	649.2	182.3	131.19		
	8.00	671.9	205.0	131.59		
	9.00	693.4	226.5	131.92		
	10.00	713.9	247.0	132.21		
	11.00	733.8	266.9	132.44		
***** End Flow 1	12.00	752.7	285.8	132.66		
***** Start Shutin 1	0.00	752.7	0.0	132.66	0.0000	0.566
	1.00	1079.6	326.9	132.86	13.0000	1.165
	2.00	1097.0	344.4	133.02	7.0000	1.203
	3.00	1105.1	352.4	133.18	5.0000	1.221
	4.00	1110.4	357.7	133.32	4.0000	1.233
	5.00	1114.0	361.3	133.42	3.4000	1.241
	6.00	1116.8	364.2	133.50	3.0000	1.247
	7.00	1119.1	366.4	133.60	2.7143	1.252
	8.00	1120.9	368.3	133.67	2.5000	1.256
	9.00	1122.4	369.8	133.73	2.3333	1.260
	10.00	1123.8	371.1	133.76	2.2000	1.263
	11.00	1124.9	372.2	133.80	2.0909	1.265
	12.00	1125.9	373.2	133.82	2.0000	1.268
	13.00	1126.8	374.2	133.82	1.9231	1.270
	14.00	1127.6	374.9	133.80	1.8571	1.271
	15.00	1128.1	375.5	133.78	1.8000	1.273
	16.00	1128.8	376.2	133.76	1.7500	1.274
	17.00	1129.5	376.8	133.73	1.7059	1.276
	18.00	1129.9	377.3	133.69	1.6667	1.277
	19.00	1130.3	377.7	133.66	1.6316	1.278
	20.00	1130.8	378.1	133.61	1.6000	1.279
	21.00	1131.3	378.6	133.57	1.5714	1.280
	22.00	1131.6	378.9	133.54	1.5455	1.280
	23.00	1131.9	379.3	133.47	1.5217	1.281
	24.00	1132.2	379.5	133.43	1.5000	1.282
	25.00	1132.5	379.9	133.38	1.4800	1.283
	26.00	1132.7	380.0	133.34	1.4615	1.283
	27.00	1132.8	380.1	133.31	1.4444	1.283
	28.00	1133.1	380.4	133.24	1.4286	1.284
	29.00	1133.3	380.6	133.22	1.4138	1.284
	30.00	1133.4	380.8	133.16	1.4000	1.285
***** End Shut-in 1	31.00	1133.6	380.9	133.13	1.3871	1.285
***** Start Flow 2	0.00	781.6	0.0	133.06		
	1.00	798.1	16.4	133.01		
	2.00	814.5	32.9	132.99		
	3.00	830.9	49.3	133.08		
	4.00	846.5	64.9	133.18		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9165 DST #1 DICKS BROWN #1-26 AMOCO

DATE: 04/15/96

TIME: 15:26:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
5.00	861.3	79.6	133.29		
6.00	875.9	94.3	133.39		
7.00	890.0	108.4	133.47		
8.00	903.6	122.0	133.55		
9.00	915.9	134.3	133.61		
10.00	927.9	146.3	133.66		
11.00	939.9	158.3	133.71		
12.00	950.6	169.0	133.75		
13.00	961.0	179.4	133.78		
14.00	971.1	189.5	133.81		
15.00	980.8	199.2	133.84		
16.00	989.9	208.3	133.86		
17.00	998.3	216.7	133.88		
18.00	1006.5	224.8	133.91		
19.00	1014.3	232.6	133.93		
20.00	1021.4	239.8	133.96		
21.00	1028.6	247.0	133.98		
22.00	1035.3	253.7	133.99		
23.00	1041.7	260.1	134.01		
24.00	1047.4	265.8	134.02		
25.00	1053.1	271.5	134.04		
26.00	1058.2	276.5	134.04		
27.00	1063.0	281.4	134.04		
28.00	1067.8	286.2	134.04		
29.00	1072.1	290.5	134.05		
30.00	1076.3	294.7	134.07		
31.00	1080.2	298.6	134.08		
32.00	1083.8	302.1	134.10		
33.00	1087.2	305.6	134.13		
34.00	1090.6	309.0	134.15		
35.00	1093.6	312.0	134.16		
36.00	1096.3	314.6	134.18		
37.00	1098.9	317.3	134.20		
38.00	1101.3	319.7	134.19		
39.00	1103.9	322.3	134.21		
40.00	1106.1	324.5	134.22		
41.00	1108.1	326.5	134.23		
42.00	1109.9	328.3	134.23		
43.00	1111.8	330.2	134.24		
44.00	1113.4	331.8	134.24		
45.00	1115.0	333.4	134.24		
46.00	1116.6	335.0	134.24		
47.00	1117.9	336.3	134.23		
48.00	1119.2	337.6	134.23		
49.00	1120.3	338.7	134.22		
50.00	1121.4	339.8	134.21		
51.00	1122.3	340.7	134.21		
52.00	1123.3	341.7	134.20		
53.00	1124.1	342.5	134.20		
54.00	1124.9	343.3	134.18		
55.00	1125.6	344.0	134.18		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9165 DST #1 DICKS BROWN #1-26 AMOCO

DATE: 04/15/96

TIME: 15:26:45

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	56.00	1126.3	344.7	134.17		
	57.00	1127.0	345.4	134.16		
***** End Flow 2	58.00	1127.6	346.0	134.15		
***** Start Shutin 2	0.00	1127.6	0.0	134.15	0.0000	1.272
	1.00	1132.0	4.4	134.14	71.0000	1.281
	2.00	1132.7	5.0	134.14	36.0000	1.283
	3.00	1133.0	5.4	134.11	24.3333	1.284
	4.00	1133.4	5.7	134.10	18.5000	1.284
	5.00	1133.4	5.8	134.09	15.0000	1.285
	6.00	1133.7	6.0	134.09	12.6667	1.285
	7.00	1133.8	6.1	134.08	11.0000	1.285
	8.00	1133.9	6.3	134.07	9.7500	1.286
	9.00	1133.9	6.3	134.05	8.7778	1.286
	10.00	1134.2	6.5	134.03	8.0000	1.286
	11.00	1134.3	6.6	134.02	7.3636	1.287
	12.00	1134.4	6.8	134.00	6.8333	1.287
	13.00	1134.5	6.9	133.98	6.3846	1.287
	14.00	1134.7	7.0	133.96	6.0000	1.287
	15.00	1134.7	7.0	133.93	5.6667	1.287
	16.00	1134.7	7.1	133.91	5.3750	1.288
	17.00	1134.8	7.2	133.89	5.1176	1.288
	18.00	1134.8	7.2	133.87	4.8889	1.288
	19.00	1134.9	7.3	133.84	4.6842	1.288
	20.00	1135.1	7.4	133.81	4.5000	1.288
	21.00	1135.1	7.4	133.79	4.3333	1.288
	22.00	1135.2	7.5	133.77	4.1818	1.289
	23.00	1135.3	7.6	133.75	4.0435	1.289
	24.00	1135.3	7.6	133.73	3.9167	1.289
	25.00	1135.3	7.7	133.71	3.8000	1.289
	26.00	1135.3	7.7	133.69	3.6923	1.289
	27.00	1135.4	7.8	133.68	3.5926	1.289
	28.00	1135.5	7.9	133.66	3.5000	1.289
	29.00	1135.5	7.9	133.64	3.4138	1.289
	30.00	1135.6	7.9	133.63	3.3333	1.290
	31.00	1135.7	8.0	133.62	3.2581	1.290
	32.00	1135.7	8.0	133.61	3.1875	1.290
	33.00	1135.8	8.1	133.60	3.1212	1.290
	34.00	1135.8	8.1	133.58	3.0588	1.290
	35.00	1135.8	8.2	133.58	3.0000	1.290
	36.00	1135.8	8.2	133.56	2.9444	1.290
	37.00	1135.9	8.3	133.54	2.8919	1.290
	38.00	1135.9	8.3	133.53	2.8421	1.290
	39.00	1135.9	8.3	133.51	2.7949	1.290
	40.00	1135.9	8.3	133.50	2.7500	1.290
	41.00	1136.0	8.4	133.48	2.7073	1.291
	42.00	1136.0	8.4	133.47	2.6667	1.291
	43.00	1136.0	8.4	133.46	2.6279	1.291
	44.00	1136.0	8.4	133.46	2.5909	1.291
	45.00	1136.2	8.5	133.44	2.5556	1.291
	46.00	1136.2	8.5	133.44	2.5217	1.291
	47.00	1136.2	8.5	133.43	2.4894	1.291

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9165 DST #1 DICKS BROWN #1-26 AMOCO

DATE: 04/15/96

TIME: 15:26:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
48.00	1136.2	8.5	133.42	2.4583	1.291
49.00	1136.2	8.5	133.41	2.4286	1.291
50.00	1136.3	8.6	133.41	2.4000	1.291
51.00	1136.3	8.6	133.39	2.3725	1.291
52.00	1136.3	8.6	133.39	2.3462	1.291
53.00	1136.3	8.7	133.39	2.3208	1.291
54.00	1136.3	8.7	133.36	2.2963	1.291
55.00	1136.3	8.7	133.36	2.2727	1.291
56.00	1136.3	8.7	133.35	2.2500	1.291
57.00	1136.3	8.7	133.33	2.2281	1.291
58.00	1136.4	8.8	133.33	2.2069	1.291
59.00	1136.4	8.8	133.33	2.1864	1.291
60.00	1136.4	8.8	133.31	2.1667	1.291
61.00	1136.4	8.8	133.32	2.1475	1.291
62.00	1136.5	8.9	133.30	2.1290	1.292
63.00	1136.5	8.9	133.30	2.1111	1.292
64.00	1136.6	8.9	133.29	2.0938	1.292
65.00	1136.6	8.9	133.28	2.0769	1.292
66.00	1136.6	8.9	133.27	2.0606	1.292
67.00	1136.6	8.9	133.25	2.0448	1.292
68.00	1136.5	8.9	133.26	2.0294	1.292
69.00	1136.5	8.9	133.24	2.0145	1.292
70.00	1136.7	9.0	133.23	2.0000	1.292
71.00	1136.7	9.0	133.22	1.9859	1.292
72.00	1136.7	9.0	133.22	1.9722	1.292
73.00	1136.6	8.9	133.21	1.9589	1.292
74.00	1136.8	9.1	133.20	1.9459	1.292
75.00	1136.8	9.1	133.19	1.9333	1.292
76.00	1136.7	9.0	133.18	1.9211	1.292
77.00	1136.7	9.0	133.18	1.9091	1.292
78.00	1136.8	9.2	133.17	1.8974	1.292
79.00	1136.8	9.2	133.16	1.8861	1.292
80.00	1136.8	9.2	133.15	1.8750	1.292
81.00	1136.8	9.2	133.14	1.8642	1.292
82.00	1136.8	9.2	133.13	1.8537	1.292
83.00	1136.8	9.2	133.12	1.8434	1.292
84.00	1136.8	9.2	133.12	1.8333	1.292
85.00	1136.8	9.1	133.11	1.8235	1.292
86.00	1136.8	9.1	133.11	1.8140	1.292
87.00	1136.8	9.1	133.10	1.8046	1.292
88.00	1136.9	9.3	133.10	1.7955	1.293
89.00	1136.9	9.3	133.10	1.7865	1.293
90.00	1136.9	9.3	133.10	1.7778	1.293
91.00	1136.9	9.3	133.08	1.7692	1.293
92.00	1136.9	9.3	133.09	1.7609	1.293
93.00	1136.9	9.3	133.08	1.7527	1.293
94.00	1136.9	9.3	133.08	1.7447	1.293
95.00	1137.1	9.5	133.07	1.7368	1.293
96.00	1137.1	9.5	133.07	1.7292	1.293
97.00	1137.1	9.5	133.06	1.7216	1.293
98.00	1137.1	9.5	133.06	1.7143	1.293

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9165 DST #1 DICKS BROWN #1-26 AMOCO

DATE: 04/15/96

TIME: 15:26:45

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	99.00	1137.1	9.5	133.06	1.7071	1.293
	100.00	1137.1	9.5	133.06	1.7000	1.293
	101.00	1137.1	9.5	133.06	1.6931	1.293
	102.00	1137.1	9.5	133.05	1.6863	1.293
	103.00	1137.1	9.5	133.03	1.6796	1.293
	104.00	1137.1	9.5	133.03	1.6731	1.293
	105.00	1137.1	9.5	133.03	1.6667	1.293
	106.00	1137.1	9.5	133.02	1.6604	1.293
	107.00	1137.1	9.5	133.02	1.6542	1.293
	108.00	1137.2	9.5	133.02	1.6481	1.293
	109.00	1137.2	9.5	133.01	1.6422	1.293
	110.00	1137.2	9.5	133.00	1.6364	1.293
	111.00	1137.2	9.5	132.99	1.6306	1.293
	112.00	1137.2	9.5	132.99	1.6250	1.293
	113.00	1137.2	9.5	132.99	1.6195	1.293
	114.00	1137.2	9.5	132.99	1.6140	1.293
	115.00	1137.2	9.5	132.99	1.6087	1.293
	116.00	1137.1	9.5	132.98	1.6034	1.293
	117.00	1137.1	9.5	132.98	1.5983	1.293
	118.00	1137.1	9.5	132.97	1.5932	1.293
	119.00	1137.1	9.5	132.96	1.5882	1.293
	120.00	1137.1	9.5	132.95	1.5833	1.293
***** End Shut-in 2	121.00	1137.1	9.5	132.94	1.5785	1.293
***** Final Hydro.	346.00	2016.3	0.0	132.78		

TRILOBITE TESTING L.L.C.

OPERATOR : Amoco Production Company
WELL NAME: Dicks Brown #1-26
LOCATION : 26-15S-43W Cheyenne CO
INTERVAL : 4390.00 To 4420.00 ft

DATE 4-15-96

KB 4106.00 ft TICKET NO: 9165 DST #1
GR 4094.00 ft FORMATION: LANSING
TD 4420.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13339	13339	2342			PF Fr. 1722 to 1737 hr
SI 30 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1737 to 1807 hr
SF 60 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 1807 to 1907 hr
FS 120 Depth(ft)	4415.0	4415.0	4395.0	0.0	0.0	FS Fr. 1907 to 2107 hr

	Field	1	2	3	4
A. Init Hydro	2153.0	2106.0	2054.0	0.0	0.0
B. First Flow	322.0	306.0	467.0	0.0	0.0
B1. Final Flow	719.0	731.0	753.0	0.0	0.0
C. In Shut-in	1150.0	1135.0	1134.0	0.0	0.0
D. Init Flow	869.0	850.0	782.0	0.0	0.0
E. Final Flow	1140.0	1135.0	1128.0	0.0	0.0
F. Fl Shut-in	1150.0	1147.0	1137.0	0.0	0.0
G. Final Hydro	2143.0	2045.0	2016.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1525 hr
T ON BOTM 1718 hr
T OPEN 1722 hr
T PULLED 2107 hr
T OUT 2400 hr

TOOL DATA-----

Tool Wt. 1800.00 lbs
Wt Set On Packer 25000.00 lbs
Wt Pulled Loose 140000.00 lbs
Initial Str Wt 90000.00 lbs
Unseated Str Wt 120000.00 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 557.00 ft
D.P. Length 3826.00 ft

RECOVERY

Tot Fluid 2550.00 ft of 557.00 ft in DC and 1993.00 ft in DP
330.00 ft of Muddy water - 70% water, 30% mud
2220.00 ft of Salt water - 100% water

RW .30 @ 80 F

SALINITY 20000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
Strong blow off bottom in 1 min

Initial Shutin -
Bled off blow, no return

Final Flow -
Strong blow off bottom in 3 min,
decreased to 8" at final

Final Shutin -
Bled off blow, no return

SAMPLES:
SENT TO:

MUD DATA-----

Mud Type Chemical
Weight 9.00 lb/c
Vis. 45.00 S/L
W.L. 7.20 in3
F.C. 0.00 in
Mud Drop N

Amt. of fill 0.00 ft
Btm. H. Temp. 134.00 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 SAM CARMACK
Co. Rep. ROD STEINBRINK
Contr. KUDU DRLG
Rig # 1
Unit #
Pump T.

Test Successful: Y

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 9167

Well Name & No.	<u>Dicks Brown #1-26</u>	Test No.	<u>2</u>	Date	<u>4-20-96</u>
Company	<u>Amoco Production Company</u>	Zone Tested	<u>Morrow</u>		
Address		Elevation	<u>4106</u>	KB	<u>4094</u> GL
Co. Rep / Geo.	<u>Sam Carmack / Ron Pulliam</u>	Cont.	<u>Kudu #1</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>26</u>	Twp.	<u>15^S</u>	Rge.	<u>43^W</u> Co. <u>Wyoming</u> State <u>WY</u>
No. of Copies	<u> </u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5130 - 5244</u>	Initial Str Wt./Lbs.	<u>100,000</u>	Unseated Str Wt./Lbs.	<u> </u>
Anchor Length	<u>114'</u>	Wt. Set Lbs.	<u>25,000</u>	Wt. Pulled Loose/Lbs.	<u> </u>
Top Packer Depth	<u>5125</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Bottom Packer Depth	<u>5130</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u> </u>		<u> </u>
Total Depth	<u>5244</u>	Drill Collar — 2.25 Ft. Run	<u>4 1/2" XH</u>	<u>557'</u>	
Mud Wt.	<u>9.0</u> LCM <u>4#</u> Vis. <u>51</u> WL <u>7.2</u>	Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>4565'</u>
Blow Description	<u>IF: Weak 1/4" blow steady throughout.</u>				
	<u>ISI: No blow.</u>				
	<u>FF: Weak surface blow return in 10 mins died in 30 mins.</u>				
	<u>FST: No blow</u>				

Recovery — Total Feet	<u>120'</u>	Ft. in DC	<u>120'</u>	Ft. in WP	<u> </u>	Ft. in DP	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u>120'</u>	Feet Of	<u>Drilg. Mud</u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud

BHT 145° °F Gravity °API D@ °F Corrected Gravity °API
RW 1.9 @ 70° °F Chlorides 3,200 ppm Recovery Chlorides 3,200 ppm System

(A) Initial Hydrostatic Mud	<u>2498</u>	<u>2523</u> PSI	Recorder No.	<u>2342</u>	T-Started	<u>2100</u>
(B) First Initial Flow Pressure	<u>72</u>	<u>72</u> PSI	@ (depth)	<u>5135</u>	T-Open	<u>0020</u>
(C) First Final Flow Pressure	<u>90</u>	<u>72</u> PSI	Recorder No.	<u>13339</u>	T-Pulled	<u>0405</u>
(D) Initial Shut-in Pressure	<u>951</u>	<u>919</u> PSI	@ (depth)	<u>5239</u>	T-Out	<u>0615</u>
(E) Second Initial Flow Pressure	<u>97</u>	<u>114</u> PSI	Recorder No.	<u> </u>		
(F) Second Final Flow Pressure	<u>142</u>	<u>135</u> PSI	@ (depth)	<u> </u>		
(G) Final Shut-in Pressure	<u>958</u>	<u>939</u> PSI	Initial Opening	<u>15</u>	Test	<u> </u>
(H) Final Hydrostatic Mud	<u>2402</u>	<u>2494</u> PSI	Initial Shut-in	<u>30</u>	Jars	<u>X</u>
			Final Flow	<u>60</u>	Safety Joint	<u>X</u>
			Final Shut-in	<u>120</u>	Straddle	<u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Our Representative Rod Steinbrink

Circ. Sub	<u>X</u>	<u>N/C</u>
Sampler	<u>X</u>	
Extra Packer	<u> </u>	
Elect. Rec.	<u>X</u>	
Other	<u> </u>	
TOTAL PRICE \$	<u> </u>	

8

N

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9167 Date 4-19-96
Company Name Amoco Prod. Co. Cont. Kudu #1
Lease Dicks Brown #1-26 Test No. 2 Morrow
County Cheyenne CO. Sec. 26 Twp. 15^s Rng. 43^w

SAMPLER RECOVERY

PIT MUD ANALYSIS

Gas - ML
Oil - ML
Mud 4,000 ML
Water - ML
Other - ML
Pressure 30[#] PSI
Total 4,000 ML

Chlorides 3,200 ppm.
Resistivity 1.9 ohms @ 70° F
Viscosity 51
Mud Weight 9.0
Filtrate 7.2
Other LCM 4#/bbl.

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity 1.59 ohms @ 70° F
Chlorides 3,200 ppm.
Gravity _____ corrected @ 60 F

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Dicks Brown #1-26

LOCATION : 26-15S-43W, Cheyenne CO

TICKET No. 9167 D.S.T. No. 2 DATE 4-20-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL 21

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 51

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 93

TOTAL ASSEMBLY 145

D.C. ABOVE TOOLS.Stands 6 Single Total 557

D.P. ABOVE TOOLS.Stands 49 Single Total 4565

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5267

TOTAL DEPTH 5244

TOTAL DRILL PIPE ABOVE K.B. 23

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

Mud 4000 ml, Pressure 30 PSI, Total 4000 ml

SAMPLER ANALYSIS -

Resist 1.9 ohms @ 70 F; Chlorides 3200 ppm

PIT MUD ANALYSIS -

Chlorides 3200 ppm, Resist 1.9 ohms @ 70 F;

Viscosity 51, Mud Wt 9.0, Filtrate 7.2,

LCM 4# / bbl

P.O. SUB 1' ABOVE 90' DC	5010
C.O. SUB 1'	5100
S.I. TOOL 5'	5106
SAMPLER 3'	5109
HMV 5'	5114
JARS 5'	5119
SAFETY JOINT 2'	5121
PACKER 5'	5125
PACKER 5'	5130
DEPTH	
STUBB 1'	5131
ANCHOR	
3'	5134
Alpine recorder	5135
1' CO SUB	5135
93' DP	5228
1' CO SUB	5229
5'	5234
T.C.	
DEPTH	
5'	5239
AK-1 recorder	5239
BULLNOSE 5'	
T.D.	5244

-E-

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9167 DST #2 DICKS BROWN #1-26 AMOCO PROD CO.

DATE: 04/19/96

TIME: 21:00:21

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
41.00	930.2	787.2	144.66	2.8780	0.865
42.00	931.5	788.6	144.67	2.8333	0.868
43.00	932.8	789.8	144.67	2.7907	0.870
44.00	933.9	790.9	144.68	2.7500	0.872
45.00	935.0	792.1	144.68	2.7111	0.874
46.00	936.0	793.0	144.69	2.6739	0.876
47.00	936.8	793.9	144.69	2.6383	0.878
48.00	937.7	794.8	144.70	2.6042	0.879
49.00	938.6	795.6	144.69	2.5714	0.881
50.00	939.2	796.3	144.70	2.5400	0.882
51.00	940.0	797.1	144.71	2.5098	0.884
52.00	940.6	797.6	144.71	2.4808	0.885
53.00	941.3	798.4	144.71	2.4528	0.886
54.00	942.0	799.1	144.72	2.4259	0.887
55.00	942.6	799.7	144.72	2.4000	0.888
56.00	943.2	800.3	144.73	2.3750	0.890
57.00	943.7	800.8	144.74	2.3509	0.891
58.00	944.2	801.3	144.74	2.3276	0.891
59.00	944.7	801.8	144.75	2.3051	0.892
60.00	945.3	802.4	144.76	2.2833	0.894
61.00	945.7	802.8	144.77	2.2623	0.894
62.00	946.2	803.3	144.76	2.2419	0.895
63.00	946.6	803.7	144.77	2.2222	0.896
64.00	946.9	804.0	144.78	2.2031	0.897
65.00	947.4	804.4	144.79	2.1846	0.898
66.00	947.7	804.8	144.79	2.1667	0.898
67.00	948.1	805.2	144.79	2.1493	0.899
68.00	948.5	805.5	144.80	2.1324	0.900
69.00	948.7	805.8	144.81	2.1159	0.900
70.00	949.0	806.1	144.82	2.1000	0.901
71.00	949.3	806.4	144.83	2.0845	0.901
72.00	949.6	806.6	144.83	2.0694	0.902
73.00	949.9	807.0	144.84	2.0548	0.902
74.00	950.2	807.3	144.85	2.0405	0.903
75.00	950.6	807.6	144.85	2.0267	0.904
76.00	951.0	808.1	144.85	2.0132	0.904
77.00	951.2	808.3	144.86	2.0000	0.905
78.00	951.6	808.6	144.86	1.9872	0.905
79.00	951.8	808.9	144.88	1.9747	0.906
80.00	952.0	809.1	144.88	1.9625	0.906
81.00	952.2	809.3	144.89	1.9506	0.907
82.00	952.6	809.7	144.89	1.9390	0.907
83.00	952.7	809.8	144.90	1.9277	0.908
84.00	953.0	810.1	144.91	1.9167	0.908
85.00	953.2	810.3	144.91	1.9059	0.909
86.00	953.4	810.5	144.92	1.8953	0.909
87.00	953.5	810.6	144.93	1.8851	0.909
88.00	953.8	810.9	144.94	1.8750	0.910
89.00	954.1	811.2	144.94	1.8652	0.910
90.00	954.3	811.3	144.96	1.8556	0.911
91.00	954.5	811.6	144.97	1.8462	0.911

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9167 DST #2 DICKS BROWN #1-26 AMOCO PROD CO.

DATE: 04/19/96

TIME: 21:00:21

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	92.00	954.9	812.0	144.97	1.8370	0.912
	93.00	955.0	812.1	144.97	1.8280	0.912
	94.00	955.3	812.3	144.98	1.8191	0.913
	95.00	955.3	812.4	144.99	1.8105	0.913
	96.00	955.5	812.6	145.00	1.8021	0.913
	97.00	955.7	812.8	145.01	1.7938	0.913
	98.00	955.8	812.9	145.02	1.7857	0.914
	99.00	956.1	813.2	145.03	1.7778	0.914
	100.00	956.3	813.4	145.05	1.7700	0.914
	101.00	956.3	813.4	145.04	1.7624	0.914
	102.00	956.4	813.5	145.05	1.7549	0.915
	103.00	956.5	813.6	145.06	1.7476	0.915
	104.00	956.7	813.8	145.07	1.7404	0.915
	105.00	956.9	813.9	145.08	1.7333	0.916
	106.00	956.9	814.0	145.09	1.7264	0.916
	107.00	957.2	814.3	145.09	1.7196	0.916
	108.00	957.3	814.4	145.10	1.7130	0.916
	109.00	957.4	814.5	145.11	1.7064	0.917
	110.00	957.6	814.7	145.12	1.7000	0.917
	111.00	957.7	814.8	145.13	1.6937	0.917
	112.00	957.9	814.9	145.13	1.6875	0.917
	113.00	957.9	815.0	145.14	1.6814	0.918
	114.00	958.1	815.2	145.16	1.6754	0.918
	115.00	958.2	815.3	145.16	1.6696	0.918
	116.00	958.4	815.4	145.17	1.6638	0.918
	117.00	958.4	815.5	145.17	1.6581	0.919
***** End Shut-in 2	118.00	958.6	815.7	145.19	1.6525	0.919
***** Final Hydro.	371.00	2402.9	0.0	145.26		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9167 DST #2 DICKS BROWN #1-26 AMOCO PROD CO.

DATE: 04/19/96

TIME: 21:00:21

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Start Flow 2	0.00	97.9	0.0	137.93		
	1.00	98.6	0.7	137.94		
	2.00	99.4	1.5	137.99		
	3.00	100.5	2.6	138.10		
	4.00	101.3	3.4	138.26		
	5.00	101.8	3.9	138.47		
	6.00	102.9	5.0	138.70		
	7.00	103.6	5.7	138.94		
	8.00	104.4	6.5	139.14		
	9.00	105.2	7.3	139.35		
	10.00	106.2	8.3	139.52		
	11.00	107.0	9.1	139.65		
	12.00	108.2	10.2	139.71		
	13.00	109.3	11.3	139.69		
	14.00	110.4	12.4	139.67		
	15.00	111.4	13.4	139.72		
	16.00	112.2	14.3	139.84		
	17.00	112.9	14.9	140.02		
	18.00	113.8	15.9	140.21		
	19.00	114.5	16.5	140.41		
	20.00	114.6	16.6	140.61		
	21.00	115.6	17.6	140.81		
	22.00	116.1	18.1	141.00		
	23.00	116.3	18.4	141.15		
	24.00	116.6	18.6	141.29		
	25.00	117.5	19.6	141.41		
	26.00	118.8	20.9	141.51		
	27.00	119.1	21.1	141.58		
	28.00	119.9	22.0	141.60		
	29.00	121.3	23.3	141.62		
	30.00	122.0	24.1	141.64		
	31.00	122.8	24.8	141.67		
	32.00	123.5	25.6	141.74		
	33.00	124.2	26.3	141.82		
	34.00	124.9	26.9	141.90		
	35.00	125.5	27.5	141.99		
	36.00	125.9	27.9	142.08		
	37.00	127.1	29.1	142.18		
	38.00	127.4	29.5	142.27		
	39.00	128.1	30.1	142.37		
	40.00	128.8	30.9	142.45		
	41.00	129.9	32.0	142.53		
	42.00	130.3	32.4	142.62		
	43.00	131.2	33.2	142.70		
	44.00	131.8	33.9	142.77		
	45.00	132.5	34.6	142.85		
	46.00	133.4	35.4	142.92		
	47.00	134.0	36.1	143.00		
	48.00	134.9	37.0	143.06		
	49.00	135.7	37.8	143.13		
	50.00	136.5	38.5	143.19		
	51.00	136.9	38.9	143.25		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

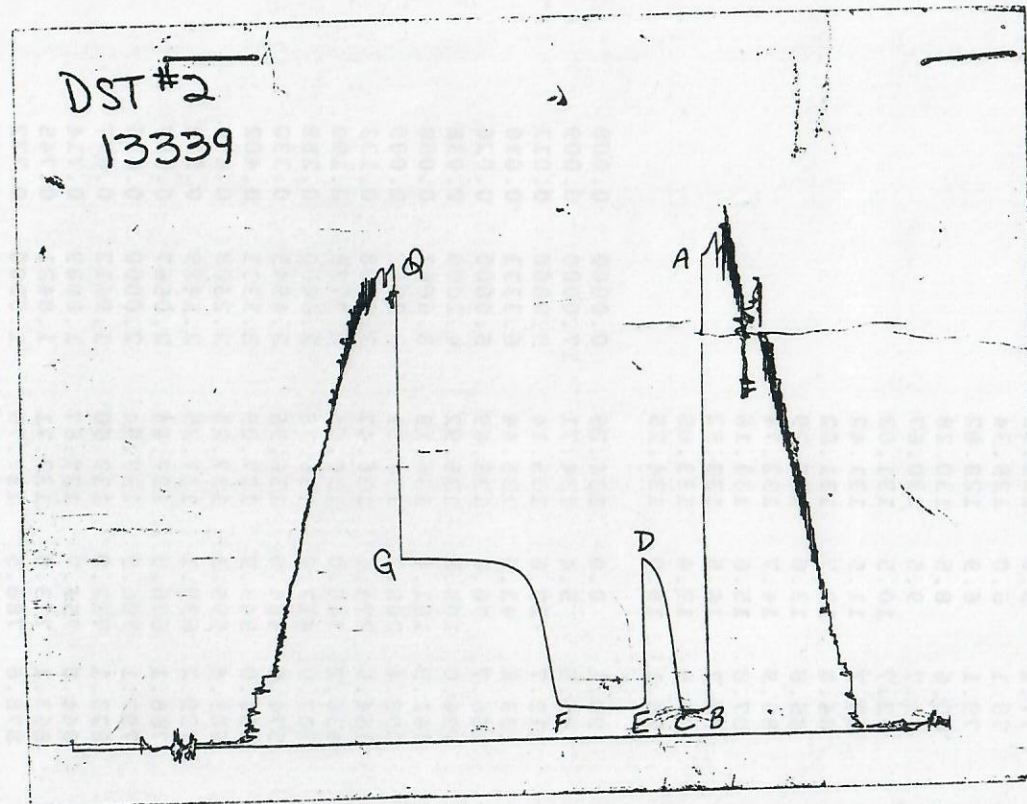
TEST: 9167 DST #2 DICKS BROWN #1-26 AMOCO PROD CO.

DATE: 04/19/96

TIME: 21:00:21

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	52.00	137.2	39.3	143.32		
	53.00	137.9	39.9	143.38		
	54.00	138.4	40.5	143.43		
	55.00	139.0	41.0	143.50		
	56.00	139.7	41.8	143.56		
	57.00	140.2	42.3	143.61		
	58.00	140.9	43.0	143.66		
	59.00	141.7	43.8	143.72		
	60.00	142.1	44.1	143.77		
***** End Flow 2	61.00	142.9	45.0	143.82		
***** Start Shutin 2	0.00	142.9	0.0	143.82	0.0000	0.020
	1.00	160.8	17.9	143.87	78.0000	0.026
	2.00	183.0	40.1	143.92	39.5000	0.034
	3.00	208.6	65.6	143.96	26.6667	0.043
	4.00	238.1	95.2	144.00	20.2500	0.057
	5.00	272.4	129.5	144.05	16.4000	0.074
	6.00	311.6	168.7	144.08	13.8333	0.097
	7.00	355.0	212.1	144.12	12.0000	0.126
	8.00	401.6	258.7	144.16	10.6250	0.161
	9.00	450.0	307.1	144.20	9.5556	0.203
	10.00	498.4	355.4	144.24	8.7000	0.248
	11.00	545.4	402.5	144.27	8.0000	0.298
	12.00	589.8	446.9	144.31	7.4167	0.348
	13.00	630.7	487.8	144.34	6.9231	0.398
	14.00	667.6	524.7	144.37	6.5000	0.446
	15.00	700.9	558.0	144.40	6.1333	0.491
	16.00	730.1	587.2	144.44	5.8125	0.533
	17.00	755.8	612.8	144.45	5.5294	0.571
	18.00	778.2	635.2	144.48	5.2778	0.606
	19.00	797.8	654.9	144.49	5.0526	0.636
	20.00	814.9	672.0	144.51	4.8500	0.664
	21.00	829.8	686.9	144.53	4.6667	0.689
	22.00	842.8	699.9	144.55	4.5000	0.710
	23.00	854.1	711.2	144.57	4.3478	0.730
	24.00	863.9	721.0	144.57	4.2083	0.746
	25.00	872.6	729.7	144.60	4.0800	0.761
	26.00	880.1	737.2	144.60	3.9615	0.775
	27.00	886.8	743.9	144.61	3.8519	0.786
	28.00	892.6	749.7	144.62	3.7500	0.797
	29.00	897.9	754.9	144.62	3.6552	0.806
	30.00	902.4	759.5	144.62	3.5667	0.814
	31.00	906.5	763.6	144.63	3.4839	0.822
	32.00	910.0	767.1	144.64	3.4062	0.828
	33.00	913.3	770.4	144.64	3.3333	0.834
	34.00	916.2	773.3	144.65	3.2647	0.839
	35.00	918.7	775.8	144.65	3.2000	0.844
	36.00	921.1	778.2	144.65	3.1389	0.848
	37.00	923.2	780.3	144.65	3.0811	0.852
	38.00	925.2	782.3	144.65	3.0263	0.856
	39.00	926.9	784.0	144.67	2.9744	0.859
	40.00	928.7	785.7	144.66	2.9250	0.862

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9167 DST #2 DICKS BROWN #1-26 AMOCO PROD CO.

DATE: 04/19/96

TIME: 21:00:21

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	142.00	2498.2	0.0	128.74		
***** Start Flow 1	0.00	72.2	0.0	128.70		
	1.00	74.5	2.4	128.69		
	2.00	76.1	3.9	128.73		
	3.00	77.1	5.0	128.96		
	4.00	78.1	6.0	129.34		
	5.00	79.1	6.9	129.82		
	6.00	80.6	8.5	130.28		
	7.00	81.7	9.5	130.67		
	8.00	82.7	10.5	131.03		
	9.00	83.7	11.5	131.42		
	10.00	84.8	12.7	131.82		
	11.00	85.8	13.6	132.29		
	12.00	86.9	14.7	132.74		
	13.00	87.8	15.6	133.16		
	14.00	88.7	16.5	133.52		
	15.00	89.5	17.4	133.85		
***** End Flow 1	16.00	90.1	18.0	134.25		
***** Start Shutin 1	0.00	90.1	0.0	134.25	0.0000	0.008
	1.00	95.5	5.4	134.71	17.0000	0.009
	2.00	112.7	22.6	135.14	9.0000	0.013
	3.00	133.8	43.6	135.44	6.3333	0.018
	4.00	160.7	70.6	135.69	5.0000	0.026
	5.00	196.0	105.8	135.92	4.2000	0.038
	6.00	241.5	151.4	136.13	3.6667	0.058
	7.00	298.4	208.2	136.31	3.2857	0.089
	8.00	364.5	274.4	136.47	3.0000	0.133
	9.00	436.2	346.0	136.64	2.7778	0.190
	10.00	507.9	417.8	136.78	2.6000	0.258
	11.00	574.6	484.5	136.96	2.4545	0.330
	12.00	634.0	543.9	137.09	2.3333	0.402
	13.00	685.4	595.3	137.23	2.2308	0.470
	14.00	729.2	639.1	137.35	2.1429	0.532
	15.00	766.1	676.0	137.44	2.0667	0.587
	16.00	797.1	706.9	137.54	2.0000	0.635
	17.00	823.1	732.9	137.60	1.9412	0.677
	18.00	844.8	754.7	137.67	1.8889	0.714
	19.00	863.1	773.0	137.71	1.8421	0.745
	20.00	878.6	788.5	137.76	1.8000	0.772
	21.00	891.6	801.5	137.79	1.7619	0.795
	22.00	902.7	812.6	137.81	1.7273	0.815
	23.00	912.1	822.0	137.83	1.6957	0.832
	24.00	920.1	830.0	137.85	1.6667	0.847
	25.00	926.8	836.7	137.87	1.6400	0.859
	26.00	932.6	842.5	137.88	1.6154	0.870
	27.00	937.6	847.5	137.89	1.5926	0.879
	28.00	942.0	851.9	137.91	1.5714	0.887
	29.00	945.7	855.6	137.92	1.5517	0.894
	30.00	949.0	858.8	137.94	1.5333	0.901
***** End Shut-in 1	31.00	951.7	861.6	137.97	1.5161	0.906

TRILOBITE TESTING L.L.C.

OPERATOR : Amoco Production Company
WELL NAME: Dicks Brown #1-26
LOCATION : 26-15S-43W, Cheyenne CO
INTERVAL : 5130.00 To 5244.00 ft

DATE 4-20-96
KB 4106.00 ft TICKET NO: 9167 DST #2
GR 4094.00 ft FORMATION: MORROW
TD 5244.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13339	13339	2342			PF Fr. 0020 to 0035 hr
SI 30 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0035 to 0105 hr
SF 60 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 0105 to 0205 hr
FS 120 Depth(ft)	5239.0	5239.0	5135.0	0.0	0.0	FS Fr. 0205 to 0405 hr

	Field	1	2	3	4	
A. Init Hydro	2523.0	2510.0	2498.0	0.0	0.0	T STARTED 2100 hr
B. First Flow	72.0	108.0	72.0	0.0	0.0	T ON BOTM 0008 hr
B1. Final Flow	72.0	108.0	90.0	0.0	0.0	T OPEN 0020 hr
C. In Shut-in	919.0	934.0	952.0	0.0	0.0	T PULLED 0405 hr
D. Init Flow	114.0	133.0	98.0	0.0	0.0	T OUT 0615 hr
E. Final Flow	135.0	152.0	143.0	0.0	0.0	
F. Fl Shut-in	939.0	962.0	959.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2494.0	2494.0	2403.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 140000.00 lbs
						Initial Str Wt 100000.00 lbs
						Unseated Str Wt 100000.00 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 557.00 ft
						D.P. Length 4565.00 ft

RECOVERY

Tot Fluid 120.00 ft of 120.00 ft in DC and 0.00 ft in DP
120.00 ft of Drilling mud

SALINITY 3200.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
Weak .25" blow, steady throughout

Initial Shutin -
No blow

Final Flow -
Weak surface return in 10 min, died
in 30 min

Final Shutin -
No blow

SAMPLES:
SENT TO:

MUD DATA-----

Mud Type	CHEMICAL
Weight	9.00 lb/c
Vis.	51.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	145.00 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	ROD STEINBRINK
Co. Rep.	RON PULLIAM
Contr.	KUDU DRLG
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

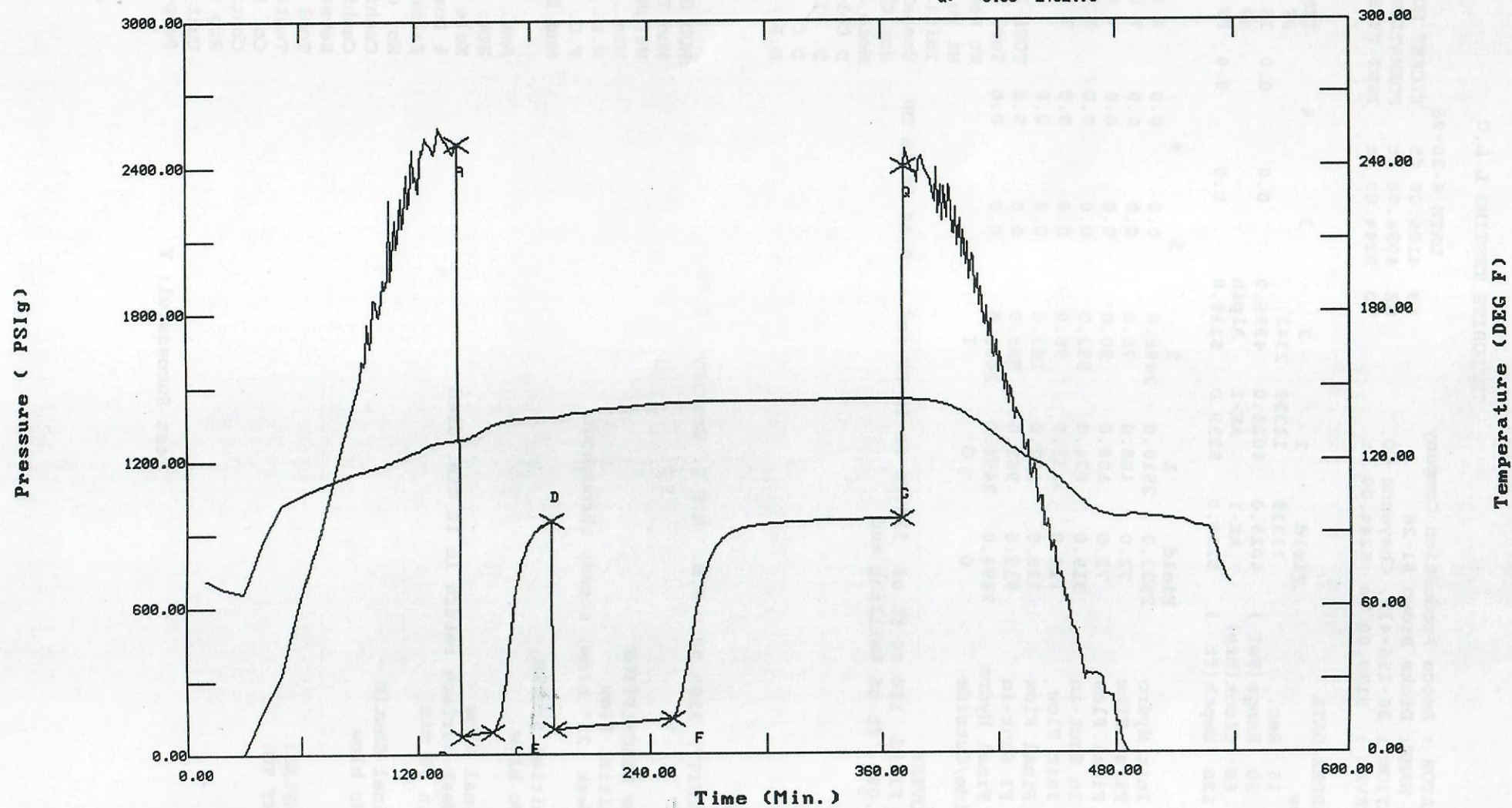
TEST HISTORY

9167 DST #2 DICKS BROWN #1-26 AMOCO PROD CO.

Flag Points

t (Min.) P (PSig)

A:	0.00	2498.19
B:	0.00	72.17
C:	16.00	90.13
D:	31.00	951.73
E:	0.00	97.94
F:	61.00	142.92
G:	118.00	958.61
Q:	0.00	2402.93



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 9165

Well Name & No.	<u>Dicks Brown #1-26</u>	Test No.	<u>1</u>	Date	<u>4-15-96</u>
Company	<u>Amoco Production Company</u>	Zone Tested	<u>Lans.</u>		
Address		Elevation	<u>4106</u>	KB	<u>4094</u> GL
Co. Rep / Geo.	<u>Sam Carmack</u>	Cont.	<u>Kudu #1</u>	Est. Ft. of Pay	<u>12'</u> Por. <u> </u> %
Location: Sec.	<u>26</u>	Twp.	<u>15^S</u>	Rge.	<u>43^W</u> Co. <u>Chayenne</u> State <u>CO.</u>
No. of Copies		Distribution Sheet (Y, N)	<u>Y</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>4390 - 4420</u>	Initial Str Wt./Lbs.	<u>90,000</u>	Unseated Str Wt./Lbs.	<u> </u>
Anchor Length	<u>30'</u>	Wt. Set Lbs.	<u>25,000</u>	Wt. Pulled Loose/Lbs.	<u> </u>
Top Packer Depth	<u>4385</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Bottom Packer Depth	<u>4390</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u> </u>		<u> </u>
Total Depth	<u>4420</u>	Drill Collar — 2.25 Ft. Run	<u>4 1/2" XH</u>	<u>557'</u>	
Mud Wt.	<u>9.0</u> LCM <u>2#</u> Vis. <u>45</u> WL <u>7.2</u>	Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>3826'</u>
Blow Description	<u>IF: Strong blow off bttm in 1 mins.</u>				
	<u>ISI: Bled off blow - no return.</u>				
	<u>FF: Strong blow off bttm in 3 mins. decreased to 8"</u>				
	<u>FSI: Bled off blow - no return</u>				

Recovery — Total Feet	<u>2550'</u>	Ft. in DC	<u>557'</u>	Ft. in WP	<u> </u>	Ft. in DP	<u>31993'</u>
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	<u>330'</u>	Feet Of	<u>MW</u>	<u> </u> %gas	<u> </u> %oil	<u>70</u> %water	<u>30</u> %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	<u>2220'</u>	Feet Of	<u>SW</u>	<u> </u> %gas	<u> </u> %oil	<u>100</u> %water	<u> </u> %mud
Rec.		Feet Of		%gas	%oil	%water	%mud

BHT	<u>134°</u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u>	°API	<u> </u>
RW	<u>-30</u>	@	<u>80</u>	°F Chlorides	<u>20,000</u>	ppm Recovery	<u> </u>	Chlorides	<u>3,200</u> ppm System

(A) Initial Hydrostatic Mud	<u>2054</u>	<u>2153</u>	PSI	Recorder No.	<u>2342</u>	T-Started	<u>1525 (CNT)</u>
(B) First Initial Flow Pressure	<u>466</u>	<u>322</u>	PSI	@ (depth)	<u>4395</u>	T-Open	<u>1722</u>
(C) First Final Flow Pressure	<u>752</u>	<u>719</u>	PSI	Recorder No.	<u>13339</u>	T-Pulled	<u>2107</u>
(D) Initial Shut-in Pressure	<u>1133</u>	<u>1150</u>	PSI	@ (depth)	<u>4415</u>	T-Out	<u> </u>
(E) Second Initial Flow Pressure	<u>781</u>	<u>869</u>	PSI	Recorder No.	<u> </u>		
(F) Second Final Flow Pressure	<u>1127</u>	<u>1140</u>	PSI	@ (depth)	<u> </u>		
(G) Final Shut-in Pressure	<u>1137</u>	<u>1150</u>	PSI	Initial Opening	<u>15</u>	Test	<u> </u>
(H) Final Hydrostatic Mud	<u>2016</u>	<u>2143</u>	PSI	Initial Shut-in	<u>30</u>	Jars	<u>X</u>

Elec. Alp.

Final Flow	<u>60</u>	Safety Joint	<u>X</u>
Final Shut-in	<u>120</u>	Straddle	<u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Our Representative

Rod Steinbrink

Circ. Sub	<u>X</u>	<u>N/C</u>
Sampler	<u>X</u>	
Extra Packer	<u> </u>	
Elect. Rec.	<u>X</u>	
Other	<u> </u>	
TOTAL PRICE \$	<u> </u>	

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TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9165 Date 4-15-96
Company Name Amoco Prod. Co. Cont. Kudu #1
Lease Dicks Brown #1-26 Test No. 1 Lansing
County Cheyenne CO. Sec. 26 Twp. 15^S Rng. 43^W

SAMPLER RECOVERY

Gas — ML
Oil — ML
Mud — ML
Water 4,000 ML
Other — ML
Pressure 450* PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 3,200 ppm.
Resistivity 1.9 ohms @ 70° F
Viscosity 45
Mud Weight 9.0
Filtrate 7.2
Other LCM 2*/bb1

SAMPLER ANALYSIS

Resistivity -.30 ohms @ 80° F
Chlorides 20,000 ppm.
Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity -.46 ohms @ 70° F
Chlorides 14,000 ppm.

MIDDLE
Resistivity -.31 ohms @ 80° F
Chlorides 19,000 ppm.

BOTTOM
Resistivity -.30 ohms @ 80° F
Chlorides 20,000 ppm.

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Dicks Brown #1-26

LOCATION : 26-15S-43W Cheyenne CO

TICKET No. 9165 D.S.T. No. 1 DATE 4-15-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 30

TOTAL TOOL 60

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 60

D.C. ABOVE TOOLS.Stands6 Single Total 557

D.P. ABOVE TOOLS.Stands41 Single Total 3826

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4443

TOTAL DEPTH 4420

TOTAL DRILL PIPE ABOVE K.B. 23

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

Water 4000 ml, Pressure 450 PSI, Ttl 4000 ml

SAMPLER ANALYSIS -

Resist .30 ohms @ 80 F, Chlorides 20000 ppm

PIT MUD ANALYSIS -

Chlorides 3200 ppm, Resist 1.9 ohms @ 70 F;

Viscosity 45, Mud Wt 9.0, Filtrate 7.2,

LCM 2#/bbl

PIPE RECOVERY -

T-Resist .46 ohms @ 70 F, Chlorides 14000 ppm

M-Resist .31 ohms @ 80 F, Chlorides 19000 ppm

B-Resist .30 ohms @ 80 F, Chlorides 20000 ppm

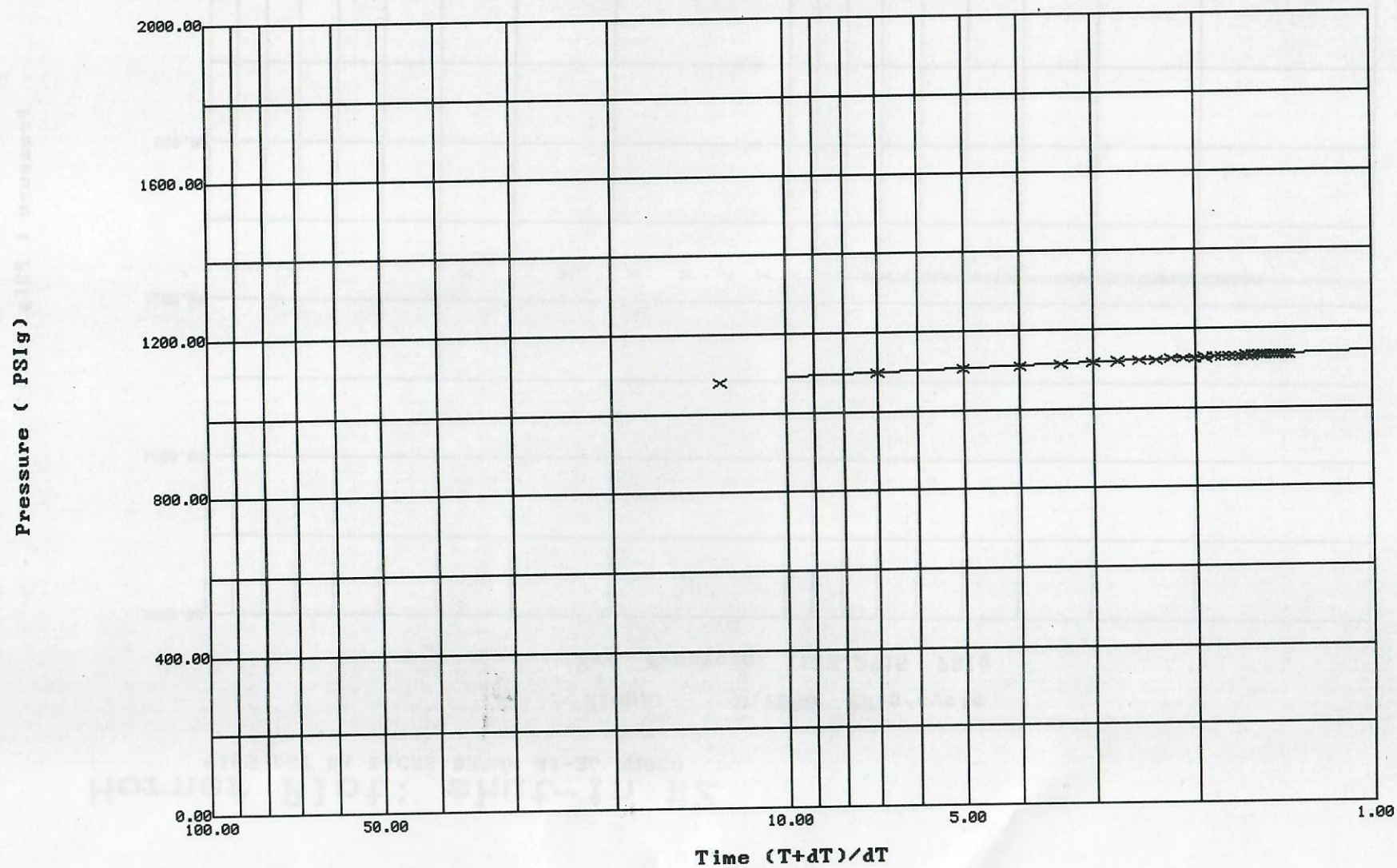
P.O. SUB 1' ABOVE 90' DC	4250
C.O. SUB 1'	4360
S.I. TOOL 5'	4366
SAMPLER 3'	4369
HMV 5'	4374
JARS 5'	4379
SAFETY JOINT 2'	4381
PACKER 5'	4385
PACKER 5'	4390
DEPTH	
STUBB 1'	4391
ANCHOR	
ALP RECORDER	4395
5'	4396
5'	4401
5'	4406
5'	4411
4'	4415
T.C.	
DEPTH	
AK-1 RECORDER	4415
BULLNOSE 5'	
T.D.	4420

Horner Plot: shut-in #1

9165 DST #1 DICKS BROWN #1-26 AMOCO

Slope: 48.7955 PSig/cycle

Ext. Pressure: 1140.6942 PSig



Horner Plot: shut-in #2

9165 DST #1 DICKS BROWN #1-26 AMOCO

Slope: 0.7596 PSig/cycle

Ext. Pressure: 1137.2915 PSig

