WELL NAME:	Dale Solomon #1
COMPANY:	Hal Porter
LOCATION:	29-11S-19W
	Ellis County Kansas
DATE:	3-10-97

TRILOBITE TESTING L.L.C.

PERATOR : Hal Porter — DATE 3-6-97
ELL NAME: Dale Solomon #1 — KB 2099.00 ft — TICKET NO: 9775 — DST #1
OCATION : 29-11S-19W-Ellis-Co-Ks — GR 2094.00 ft — FORMATION: Topeka
NTERVAL : 3115.00 To 3140.00 ft — TD 3140.00 ft — TEST TYPE: CONV

ECORDER DATA

Mins		Field	1	2	3	4
? 45	Rec.	13754	13754			
[45	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0
? 45	Clock(hrs)	12	12	Elect		
3 45	Depth(ft)	3137.0	3137.0	3120.0	0.0	0.0

TIME DATA----------
PF Fr. 0530 to 0615 hr
IS Fr. 0615 to 0700 hr
SF Fr. 0700 to 0745 hr
FS Fr. 0745 to 0830 hr

	Field	1	2	3	4
. Init Hydro	1456.0	1535.0	1478.0	0.0	0.0
. First Flow	29.0	40.0	25.0	0.0	0.0
L. Final Flow	68.0	64.0	59.0	0.0	0.0
. In Shut-in	689.0	699.0	714.0	0.0	0.0
. Init Flow	78.0	84.0	62.0	0.0	0.0
. Final Flow	98.0	93.0	92.0	0.0	0.0
. Fl Shut-in	689.0	675.0	699.0	0.0	0.0
. Final Hydro	1456.0	1529.0	1454.0	0.0	0.0
ıside/Outside	O	O	I		

T STARTED 0345 hr
T ON BOTM 0527 hr
T OPEN 0530 hr
T PULLED 0830 hr
T OUT 0945 hr

ECOVERY
ot Fluid 130.00 ft of 130.00 ft in DC and 0.00 ft in DP
30.00 ft of Muddy water
.00 ft of
.00 ft of
.00 ft of
.00 ft of
.00 ft of
.00 ft of
ALINITY 32000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	1000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	65000.00 lbs
Initial Str Wt	60000.00 lbs
Unseated Str Wt	60000.00 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	504.00 ft
D.P. Length	2586.00 ft

LOW DESCRIPTION
ıitial Flow -
Weak building to 3/4"

inal Flow -
Weak steady surface blow

MUD DATA----------

Mud Type	Chem
Weight	8.80 lb/c
Vis.	40.00 S/L
W.L.	11.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	102.00 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	Dan Bangle
Co. Rep.	Jerry Green
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

AMPLES:
ENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Dale Solomon #1

LOCATION : 29-11S-19W-Ellis-Co-Ks

TICKET No. 9775 D.S.T. No. 1 DATE 3-6-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 25

TOTAL TOOL 45

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 45

D.C. ABOVE TOOLS.Stands8 Single 1 Total 504

D.P. ABOVE TOOLS.Stands41 Single 1 Total 2586

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3135

TOTAL DEPTH 3115

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:
Rw .21 @ 70 = 32000ppm



P.O. SUB	
C.O. SUB	3095
S.I. TOOL	3101
HMV	3106
JARS n/a	
SAFETY JOINT n/a	
PACKER	3110
PACKER	3115
DEPTH 3115	
STUBB 1'	3116
ANCHOR 4' perfs	3120
Alpine Recorder	3120
T.C.	
DEPTH	
5' perfs	3125
5' perfs	3130
5' perfs	3135
AK-1 Recorder	3137
BULLNOSE 5' Bullplug	3140
T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9775 DST# 1 Dale Solomon #1 Hal Porter

DATE: 03/06/97 TIME: 03:46:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	106.00	1478.1	0.0	90.90		
****** Start Flow 1	0.00	24.7	0.0	91.18		
	1.00	25.8	1.2	91.44		
	2.00	26.8	2.1	91.64		
	3.00	27.8	3.1	91.81		
	4.00	29.0	4.4	91.94		
	5.00	30.0	5.4	92.05		
	6.00	30.9	6.2	92.16		
	7.00	31.7	7.0	92.26		
	8.00	32.6	8.0	92.38		
	9.00	33.6	9.0	92.50		
	10.00	34.7	10	92.62		
	11.00	35.5	10.8	92.74		
	12.00	36.3	11.7	92.87		
	13.00	37.3	12.6	92.98		
	14.00	37.8	13.1	93.10		
	15.00	38.5	13.8	93.21		
	16.00	39.4	14.8	93.31		
	17.00	40.2	15.5	93.42		
	18.00	41.0	16.4	93.52		
	19.00	41.8	17.1	93.61		
	20.00	42.5	17.9	93.70		
	21.00	43.4	18.7	93.78		
	22.00	44.3	19.6	93.87		
	23.00	45.1	20.4	93.96		
	24.00	45.6	21.0	94.05		
	25.00	46.4	21.7	94.14		
	26.00	47.1	22.4	94.23		
	27.00	47.7	23.1	94.32		
	28.00	48.2	23.6	94.46		
	29.00	48.8	24.2	94.63		
	30.00	49.4	24.8	94.82		
	31.00	50.3	25.6	95.03		
	32.00	50.8	26.1	95.24		
	33.00	51.4	26.7	95.46		
	34.00	52.0	27.4	95.65		
	35.00	52.7	28.0	95.83		
	36.00	53.5	28.8	95.99		
	37.00	54.0	29.4	96.14		
	38.00	54.7	30.0	96.30		
	39.00	55.4	30.7	96.45		
	40.00	56.1	31.4	96.60		
	41.00	56.8	32.1	96.74		
	42.00	57.6	32.9	96.86		
	43.00	58.2	33.5	96.97		
****** End Flow 1	44.00	58.8	34.2	97.07		
****** Start Shutin 1	0.00	58.8	0.0	97.07	0.0000	0.003
	1.00	74.1	15.3	97.16	45.0000	0.005
	2.00	238.6	179.8	97.26	23.0000	0.057
	3.00	428.8	370.0	97.34	15.6667	0.184
	4.00	519.8	460.9	97.42	12.0000	0.270

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9775 DST# 1 Dale Solomon #1 Hal Porter

DATE: 03/06/97 TIME: 03:46:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	5.00	563.2	504.4	97.50	9.8000	0.317
	6.00	588.9	530.1	97.56	8.3333	0.347
	7.00	606.3	547.5	97.63	7.2857	0.368
	8.00	619.3	560.5	97.68	6.5000	0.384
	9.00	629.5	570.6	97.73	5.8889	0.396
	10.00	637.9	579.1	97.77	5.4000	0.407
	11.00	645.0	586.2	97.81	5.0000	0.416
	12.00	651.1	592.3	97.84	4.6667	0.424
	13.00	656.4	597.6	97.88	4.3846	0.431
	14.00	661.1	602.3	97.91	4.1429	0.437
	15.00	665.4	606.5	97.94	3.9333	0.443
	16.00	669.1	610.3	97.96	3.7500	0.448
	17.00	672.5	613.7	97.98	3.5882	0.452
	18.00	675.7	616.9	98.01	3.4444	0.457
	19.00	678.4	619.6	98.03	3.3158	0.460
	20.00	680.7	621.9	98.06	3.2000	0.463
	21.00	683.5	624.7	98.08	3.0952	0.467
	22.00	685.9	627.1	98.10	3.0000	0.471
	23.00	688.1	629.3	98.12	2.9130	0.474
	24.00	690.2	631.4	98.14	2.8333	0.476
	25.00	692.1	633.2	98.17	2.7600	0.479
	26.00	693.7	634.9	98.19	2.6923	0.481
	27.00	695.4	636.6	98.20	2.6296	0.484
	28.00	696.9	638.1	98.22	2.5714	0.486
	29.00	698.5	639.7	98.25	2.5172	0.488
	30.00	699.9	641.1	98.26	2.4667	0.490
	31.00	701.2	642.4	98.29	2.4194	0.492
	32.00	702.6	643.7	98.31	2.3750	0.494
	33.00	703.8	645.0	98.32	2.3333	0.495
	34.00	705.0	646.2	98.35	2.2941	0.497
	35.00	706.1	647.3	98.37	2.2571	0.499
	36.00	707.1	648.3	98.39	2.2222	0.500
	37.00	708.1	649.3	98.41	2.1892	0.501
	38.00	709.2	650.4	98.42	2.1579	0.503
	39.00	710.1	651.3	98.45	2.1282	0.504
	40.00	710.9	652.1	98.47	2.1000	0.505
	41.00	711.9	653.0	98.49	2.0732	0.507
	42.00	712.7	653.9	98.51	2.0476	0.508
	43.00	713.5	654.7	98.54	2.0233	0.509
****** End Shut-in 1	44.00	714.2	655.4	98.56	2.0000	0.510
****** Start Flow 2	0.00	61.5	0.0	98.56		
	1.00	62.3	0.8	98.56		
	2.00	63.2	1.7	98.56		
	3.00	64.0	2.5	98.56		
	4.00	64.9	3.4	98.56		
	5.00	65.4	3.9	98.57		
	6.00	66.2	4.7	98.58		
	7.00	67.0	5.5	98.60		
	8.00	67.7	6.2	98.62		
	9.00	68.5	7.0	98.64		
	10.00	69.1	7.6	98.66		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9775 DST# 1 Dale Solomon #1 Hal Porter

DATE: 03/06/97 TIME: 03:46:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	11.00	69.9	8.4	98.69		
	12.00	70.6	9.1	98.72		
	13.00	71.3	9.8	98.76		
	14.00	72.0	10.5	98.80		
	15.00	72.8	11.2	98.83		
	16.00	73.4	11.9	98.87		
	17.00	74.2	12.7	98.92		
	18.00	74.9	13.3	98.97		
	19.00	75.6	14.1	99.00		
	20.00	76.2	14.7	99.05		
	21.00	77.0	15.4	99.09		
	22.00	77.6	16.1	99.15		
	23.00	78.2	16.7	99.19		
	24.00	78.9	17.4	99.25		
	25.00	79.3	17.8	99.30		
	26.00	79.9	18.4	99.35		
	27.00	80.5	19.0	99.41		
	28.00	81.1	19.6	99.46		
	29.00	81.8	20.3	99.52		
	30.00	82.4	20.9	99.57		
	31.00	83.1	21.6	99.63		
	32.00	83.8	22.2	99.68		
	33.00	84.4	22.9	99.74		
	34.00	85.0	23.5	99.80		
	35.00	85.5	24.0	99.85		
	36.00	86.3	24.8	99.91		
	37.00	86.9	25.3	99.97		
	38.00	87.4	25.9	100.03		
	39.00	88.0	26.5	100.08		
	40.00	88.6	27.1	100.15		
	41.00	89.2	27.7	100.20		
	42.00	89.9	28.4	100.27		
	43.00	90.5	29.0	100.31		
	44.00	91.1	29.5	100.38		
****** End Flow 2	45.00	91.6	30.1	100.44		
****** Start Shutin 2	0.00	91.6	0.0	100.44	0.0000	0.008
	1.00	100.8	9.1	100.50	90.0000	0.010
	2.00	227.9	136.2	100.56	45.5000	0.052
	3.00	397.8	306.2	100.62	30.6667	0.158
	4.00	498.7	407.0	100.69	23.2500	0.249
	5.00	547.6	456.0	100.77	18.8000	0.300
	6.00	575.1	483.4	100.84	15.8333	0.331
	7.00	592.9	501.3	100.92	13.7143	0.352
	8.00	606.0	514.4	100.99	12.1250	0.367
	9.00	616.0	524.4	101.06	10.8889	0.379
	10.00	624.2	532.5	101.13	9.9000	0.390
	11.00	631.0	539.3	101.19	9.0909	0.398
	12.00	636.8	545.2	101.25	8.4167	0.406
	13.00	641.9	550.2	101.31	7.8462	0.412
	14.00	646.4	554.8	101.37	7.3571	0.418
	15.00	650.3	558.7	101.43	6.9333	0.423

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 9775 DST# 1 Dale Solomon #1 Hal Porter

DATE: 03/06/97 TIME: 03:46:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	16.00	654.0	562.3	101.49	6.5625	0.428
	17.00	657.2	565.6	101.53	6.2353	0.432
	18.00	660.3	568.7	101.58	5.9444	0.436
	19.00	663.1	571.5	101.62	5.6842	0.440
	20.00	665.6	574.0	101.67	5.4500	0.443
	21.00	668.0	576.3	101.72	5.2381	0.446
	22.00	670.2	578.6	101.76	5.0455	0.449
	23.00	672.3	580.7	101.80	4.8696	0.452
	24.00	674.3	582.6	101.84	4.7083	0.455
	25.00	676.0	584.4	101.88	4.5600	0.457
	26.00	677.9	586.2	101.92	4.4231	0.460
	27.00	679.5	587.8	101.96	4.2963	0.462
	28.00	681.1	589.4	101.99	4.1786	0.464
	29.00	682.5	590.9	102.03	4.0690	0.466
	30.00	683.9	592.3	102.06	3.9667	0.468
	31.00	685.3	593.7	102.10	3.8710	0.470
	32.00	686.6	595.0	102.13	3.7812	0.471
	33.00	687.9	596.2	102.16	3.6970	0.473
	34.00	689.0	597.4	102.20	3.6176	0.475
	35.00	690.1	598.5	102.23	3.5429	0.476
	36.00	691.2	599.6	102.25	3.4722	0.478
	37.00	692.3	600.7	102.28	3.4054	0.479
	38.00	693.3	601.7	102.31	3.3421	0.481
	39.00	694.3	602.7	102.34	3.2821	0.482
	40.00	695.2	603.6	102.36	3.2250	0.483
	41.00	696.2	604.5	102.39	3.1707	0.485
	42.00	697.1	605.5	102.43	3.1190	0.486
	43.00	697.9	606.3	102.45	3.0698	0.487
****** End Shut-in 2	44.00	698.8	607.1	102.47	3.0227	0.488
****** Final Hydro.	287.00	1454.2	0.0	102.46		

TEST HISTORY

Tk# 9775 DST# 1 Dale Solomon #1 Hal Porter

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1478.13
B:	0.00	24.67
C:	44.00	58.82
D:	44.00	714.22
E:	0.00	61.51
F:	45.00	91.64
G:	44.00	698.77
Q:	0.00	1454.21

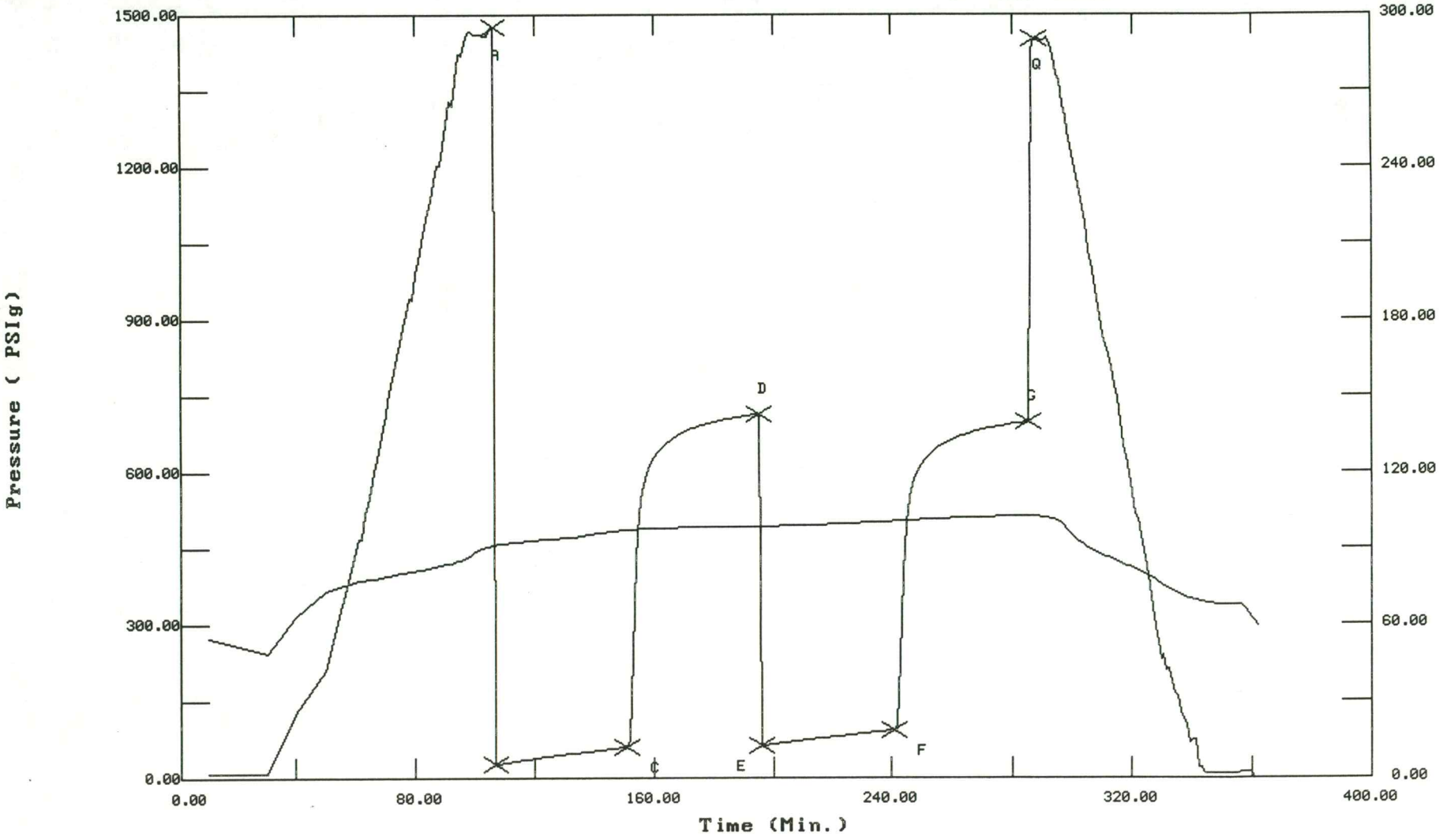
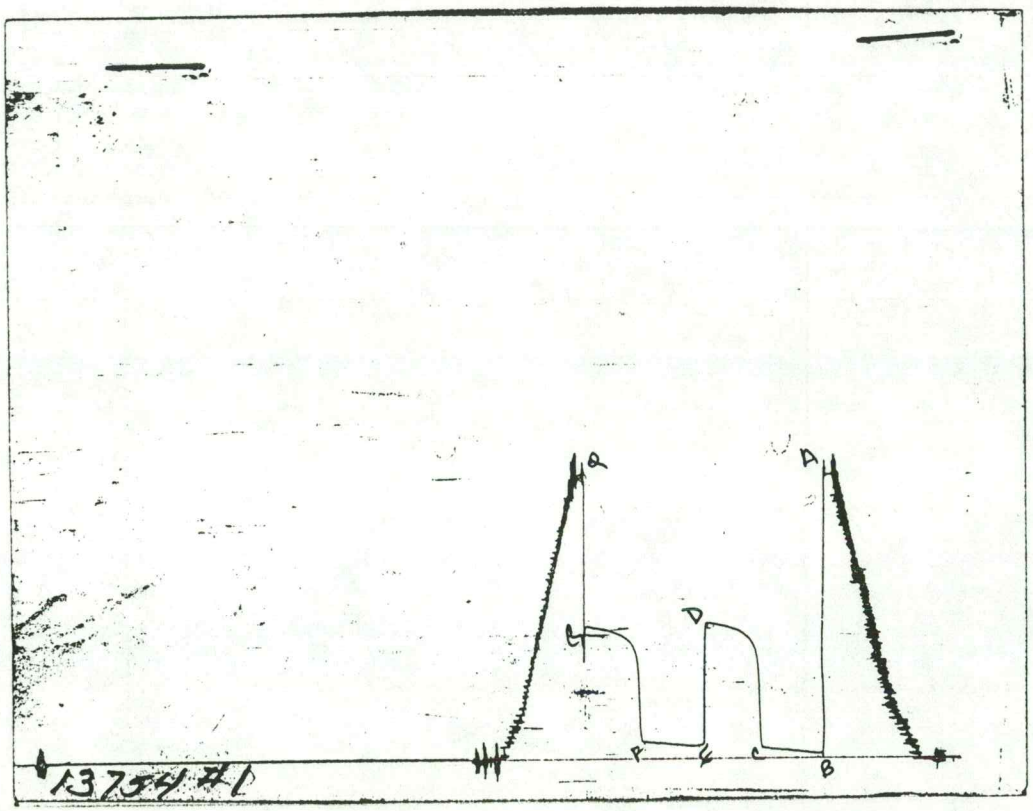


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 9775

Well Name & No. Dale Solomon #1 Test No. 1 Date 3-6-97

Company Hal Porter Zone Tested Topeka

Address P.O. Box 18515, Fountain Hills, Az. 85269 Elevation 2099 KB 2094 GL

Co. Rep / Geo. Jerry Green Cont. Murfin #3 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 29 Twp. 11 Rge. 19 Co. Ellis State Ks.

No. of Copies 0 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 3115 - 3140 Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 60,000

Anchor Length 25 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65,000

Top Packer Depth 3110 Tool Weight 1000

Bottom Packer Depth 3115 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3140 Wt. Pipe Run ____ Drill Collar Run 504

Mud Wt. 8.8 LCM 1# Vis. 40 WL 11.6 Drill Pipe Size 4.5XH Ft. Run 2586

Blow Description I.F. Weak - building to 3/4"

F.F. Weak steady surface blow.

Recovery — Total Feet 130 GIP ____ Ft. in DC 130 Ft. in DP ____

Rec. 130	Feet Of mdy WTR.	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud

BHT 102 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW .21 @ 70 °F Chlorides 32,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud	1456	1478	PSI	Recorder No.	2357	T-Started	02:45
(B) First Initial Flow Pressure	29	25	PSI	(depth)	3120	T-Open	05:30
(C) First Final Flow Pressure	68	59	PSI	Recorder No.	13754	T-Pulled	08:30
(D) Initial Shut-in Pressure	689	714	PSI	(depth)	3137	T-Out	09:45
(E) Second Initial Flow Pressure	78	62	PSI	Recorder No.	____		
(F) Second Final Flow Pressure	98	92	PSI	(depth)	____		
(G) Final Shut-in Pressure	689	699	PSI	Initial Opening	45	Test	600
(H) Final Hydrostatic Mud	1456	1454	PSI	Initial Shut-in	45	Jars	____
	AK-1	Alpine		Final Flow	45	Safety Joint	____
				Final Shut-in	45	Straddle	____
				____		Circ. Sub	____
				____		Sampler	____
						Extra Packer	____
						Elect. Rec. X	150
						Other	____
						TOTAL PRICE $	750

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 Dan Bangle

TRILOBITE TESTING L.L.C.

OPERATOR : Hal Porter — DATE 3-7-97
WELL NAME: Dale Solomon #1 — KB 2099.00 ft — TICKET NO: 10101 — DST #2
LOCATION : 29-11-19-Ellis-Co-Ks — GR 2094.00 ft — FORMATION: C-D — LKC
INTERVAL : 3382.00 To 3432.00 ft — TD 3432.00 ft — TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13754	13754	2357		
SI 30	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0
SF 15	Clock(hrs)	12	12	Elect		
FS 0	Depth(ft)	3429.0	3429.0	3386.0	0.0	0.0

TIME DATA----------
PF Fr. 0521 to 0551 hr
IS Fr. 0551 to 0621 hr
SF Fr. 0621 to 0636 hr
FS Fr. to hr

	Field	1	2	3	4
A. Init Hydro	1726.0	1735.0	1701.0	0.0	0.0
B. First Flow	39.0	58.0	26.0	0.0	0.0
B1. Final Flow	39.0	51.0	32.0	0.0	0.0
C. In Shut-in	798.0	800.0	813.0	0.0	0.0
D. Init Flow	49.0	71.0	34.0	0.0	0.0
E. Final Flow	49.0	57.0	39.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0
G. Final Hydro	1686.0	1613.0	1670.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0318 hr
T ON BOTM 0519 hr
T OPEN 0521 hr
T PULLED 0636 hr
T OUT 0815 hr

RECOVERY
Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
5.00 ft of Drilling mud with few oil spots
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	1000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	70000.00 lbs
Initial Str Wt	61000.00 lbs
Unseated Str Wt	61000.00 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	509.00 ft
D.P. Length	2858.00 ft

BLOW DESCRIPTION
Initial Flow -
Weak Died in 15 minutes

Final Flow -
No blow-flushed tool

MUD DATA----------

Mud Type	Chem
Weight	8.80 lb/c
Vis.	42.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	102.00 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	Dan Bangle
Co. Rep.	Jerry Green
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Dale Solomon #1

LOCATION : 29-11-19-Ellis-Co-Ks

TICKET No. 10101 D.S.T. No. 2 DATE 3-7-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 30

TOTAL ASSEMBLY 70

D.C. ABOVE TOOLS.Stands8 Single 1 Total 509

D.P. ABOVE TOOLS.Stands46 Single 1 Total 2858

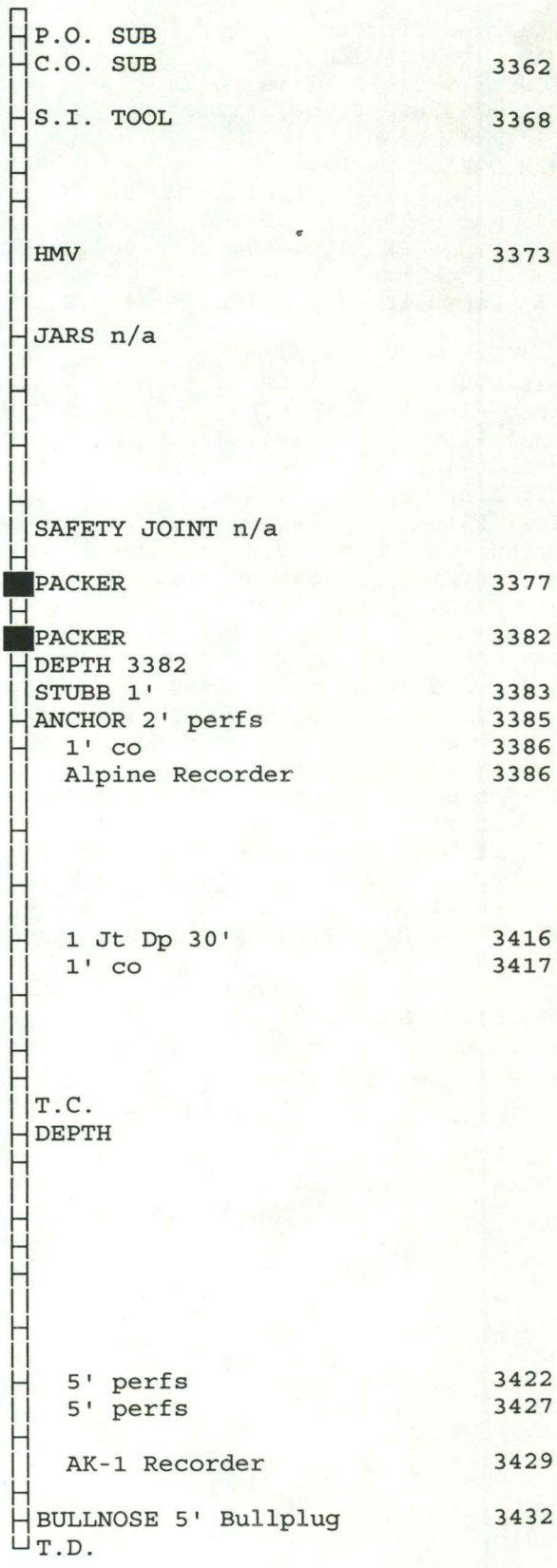
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3437

TOTAL DEPTH 3432

TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS:

Flushed tool on final flow



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10101 DST# 2 Dale Solomon #1 Hal Porter

DATE: 03/07/97 TIME: 03:19:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	124.00	1701.1	0.0	99.01		
****** Start Flow 1	0.00	26.1	0.0	99.14		
	1.00	26.6	0.5	99.25		
	2.00	27.4	1.3	99.32		
	3.00	27.4	1.3	99.37		
	4.00	27.5	1.4	99.40		
	5.00	27.9	1.8	99.43		
	6.00	28.4	2.3	99.45		
	7.00	28.4	2.4	99.47		
	8.00	28.5	2.4	99.48		
	9.00	28.8	2.7	99.50		
	10.00	29.0	2.9	99.52		
	11.00	29.3	3.2	99.54		
	12.00	29.4	3.3	99.56		
	13.00	29.5	3.4	99.57		
	14.00	29.5	3.4	99.60		
	15.00	29.6	3.5	99.62		
	16.00	29.9	3.8	99.65		
	17.00	29.9	3.8	99.67		
	18.00	30.2	4.1	99.70		
	19.00	30.4	4.3	99.74		
	20.00	30.5	4.4	99.77		
	21.00	30.6	4.5	99.81		
	22.00	30.7	4.6	99.85		
	23.00	30.8	4.7	99.88		
	24.00	30.8	4.7	99.92		
****** End Flow 1	25.00	32.3	6.2	99.96		
****** Start Shutin 1	0.00	32.3	0.0	99.96	0.0000	0.001
	1.00	39.9	7.6	100.01	26.0000	0.002
	2.00	50.7	18.4	100.06	13.5000	0.003
	3.00	67.0	34.7	100.10	9.3333	0.004
	4.00	93.2	60.8	100.15	7.2500	0.009
	5.00	134.4	102.1	100.20	6.0000	0.018
	6.00	191.0	158.7	100.24	5.1667	0.036
	7.00	256.8	224.5	100.30	4.5714	0.066
	8.00	321.7	289.4	100.36	4.1250	0.103
	9.00	383.2	350.9	100.41	3.7778	0.147
	10.00	439.4	407.1	100.47	3.5000	0.193
	11.00	489.5	457.2	100.53	3.2727	0.240
	12.00	533.2	500.9	100.60	3.0833	0.284
	13.00	571.0	538.6	100.65	2.9231	0.326
	14.00	603.9	571.5	100.71	2.7857	0.365
	15.00	632.1	599.8	100.77	2.6667	0.400
	16.00	656.6	624.3	100.83	2.5625	0.431
	17.00	678.0	645.7	100.89	2.4706	0.460
	18.00	696.1	663.8	100.94	2.3889	0.485
	19.00	711.9	679.6	101.00	2.3158	0.507
	20.00	725.9	693.6	101.06	2.2500	0.527
	21.00	737.7	705.4	101.11	2.1905	0.544
	22.00	748.4	716.1	101.16	2.1364	0.560
	23.00	757.9	725.6	101.22	2.0870	0.574

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10101 DST# 2 Dale Solomon #1 Hal Porter

DATE: 03/07/97 TIME: 03:19:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	24.00	766.3	733.9	101.27	2.0417	0.587
	25.00	773.7	741.4	101.32	2.0000	0.599
	26.00	780.4	748.1	101.37	1.9615	0.609
	27.00	786.3	754.0	101.42	1.9259	0.618
	28.00	791.5	759.2	101.46	1.8929	0.626
	29.00	796.2	763.9	101.51	1.8621	0.634
	30.00	800.5	768.2	101.56	1.8333	0.641
	31.00	804.4	772.1	101.60	1.8065	0.647
	32.00	807.9	775.6	101.65	1.7812	0.653
	33.00	811.0	778.7	101.70	1.7576	0.658
****** End Shut-in 1	34.00	813.8	781.5	101.74	1.7353	0.662
****** Start Flow 2	0.00	33.7	0.0	101.77		
	1.00	33.7	0.0	101.80		
	2.00	33.5	-0.3	101.81		
	3.00	33.6	-0.2	101.84		
	4.00	33.7	0.0	101.86		
	5.00	34.2	0.5	101.89		
	6.00	34.6	0.8	101.93		
	7.00	1676.2	1642.5	101.97		
	8.00	37.8	4.1	102.02		
	9.00	38.1	4.4	102.05		
	10.00	38.3	4.6	102.09		
	11.00	38.5	4.8	102.12		
	12.00	38.7	5.0	102.16		
	13.00	38.8	5.1	102.19		
	14.00	38.8	5.1	102.23		
****** End Flow 2	15.00	38.8	5.0	102.26		
****** Start Shutin 2	0.00	38.8	0.0	102.26	0.0000	0.002
****** End Shut-in 2	1.00	1670.4	1631.6	102.33	41.0000	2.790
****** Final Hydro.	201.00	1670.4	0.0	102.33		

TEST HISTORY

Tk#10101 DST# 2 Dale Solomon #1 Hal Porter

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1701.12
B:	0.00	26.09
C:	25.00	32.30
D:	34.00	813.84
E:	0.00	33.73
F:	15.00	38.76
Q:	0.00	1670.41

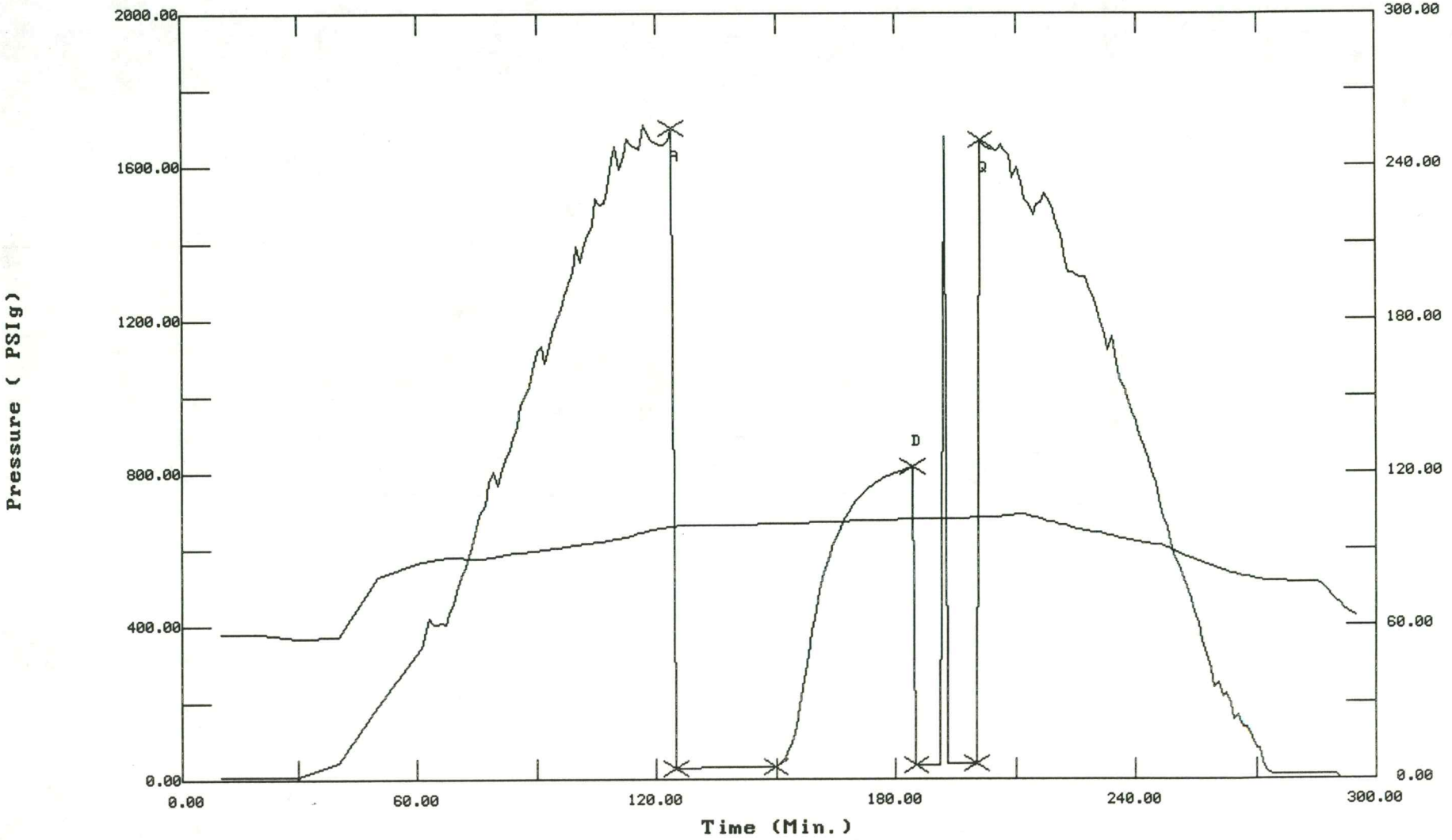
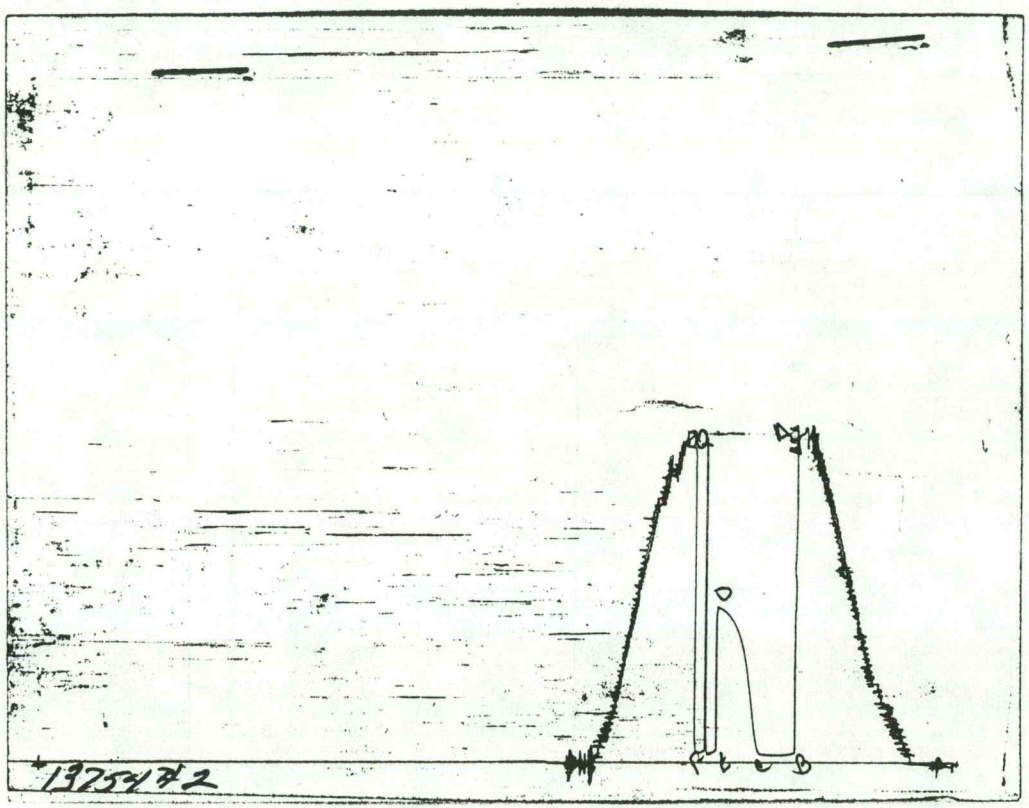


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 10101

Well Name & No. Dale Solomon #1 Test No. 2 Date 3-7-97

Company Hal Porter Zone Tested 'C-D' LKC

Address _____ Elevation 2099 KB 2094 GL

Co. Rep / Geo. Jerry Green Cont. Murfin #3 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 29 Twp. 11 Rge. 19 Co. Ellis State Ks

No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 3382 - 3432 Initial Str Wt./Lbs. 61,000 Unseated Str Wt./Lbs. 61,000

Anchor Length 50 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 70,000

Top Packer Depth 3377 Tool Weight 1000

Bottom Packer Depth 3382 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3432 Wt. Pipe Run ____ Drill Collar Run 509

Mud Wt. 8.8 LCM 1/4# Vis. 42 WL 8.8 Drill Pipe Size 4.5 XH Ft. Run 2858

Blow Description I.F. Weak - Died in 15 min.

F.F. No blow - flushed Tool

Recovery — Total Feet 5 GIP ____ Ft. in DC 5 Ft. in DP ____

Rec. 5 Feet Of D.M w/few oil spots %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

Rec. ____ Feet Of ____ %gas %oil %water %mud

BHT 102 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud	1726	1701	PSI	Recorder No.	2357	T-Started 03:18
(B) First Initial Flow Pressure	39	26	PSI	(depth)	3386	T-Open 05:21
(C) First Final Flow Pressure	39	32	PSI	Recorder No.	13754	T-Pulled ~~05:56~~ 06:36
(D) Initial Shut-in Pressure	798	813	PSI	(depth)	3429	T-Out 08:15
(E) Second Initial Flow Pressure	49	34	PSI	Recorder No.		
(F) Second Final Flow Pressure	49	39	PSI	(depth)		
(G) Final Shut-in Pressure	—	—	PSI	Initial Opening	30	Test 600
(H) Final Hydrostatic Mud	1686	1670	PSI	Initial Shut-in	30	Jars ____
	AK-1	Alpine		Final Flow	15	Safety Joint ____
				Final Shut-in	—	Straddle ____
						Circ. Sub ____
						Sampler ____
						Extra Packer ____
						Elect. Rec. X 150
						Other 750

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 _____

TRILOBITE TESTING L.L.C.

OPERATOR : Hal Porter
WELL NAME: Dale Solomon #1
LOCATION : 29-11S-19W-Ellis-Co-Ks
INTERVAL : 3420.00 To 3470.00 ft

DATE 3-7-97
KB 2099.00 ft
GR 2094.00 ft
TD 3470.00 ft

TICKET NO: 10102
FORMATION: E-F-G
TEST TYPE: CONV

DST #3
LKC

RECORDER DATA

Mins			Field	1	2	3	4
PF	30	Rec.	13754	13754	2357		
SI	45	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0
SF	30	Clock(hrs)	12	12	Elect		
FS	45	Depth(ft)	3467.0	3467.0	3424.0	0.0	0.0

TIME DATA----------
PF Fr. 1625 to 1655 hr
IS Fr. 1655 to 1740 hr
SF Fr. 1740 to 1810 hr
FS Fr. 1810 to 1855 hr

	Field	1	2	3	4
A. Init Hydro	1686.0	1695.0	1714.0	0.0	0.0
B. First Flow	59.0	78.0	51.0	0.0	0.0
B1. Final Flow	275.0	289.0	299.0	0.0	0.0
C. In Shut-in	729.0	731.0	750.0	0.0	0.0
D. Init Flow	295.0	303.0	307.0	0.0	0.0
E. Final Flow	374.0	377.0	395.0	0.0	0.0
F. Fl Shut-in	709.0	715.0	732.0	0.0	0.0
G. Final Hydro	1666.0	1681.0	1659.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1516 hr
T ON BOTM 1623 hr
T OPEN 1625 hr
T PULLED 1855 hr
T OUT 2030 hr

TOOL DATA----------

Tool Wt.	1000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	75000.00 lbs
Initial Str Wt	61000.00 lbs
Unseated Str Wt	63000.00 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	504.00 ft
D.P. Length	2923.00 ft

RECOVERY
Tot Fluid 642.00 ft of 504.00 ft in DC and 138.00 ft in DP
642.00 ft of Muddy water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 20000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA----------

Mud Type	Chem
Weight	9.30 lb/c
Vis.	42.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	

BLOW DESCRIPTION
Initial Flow -
Strong - Bottom of bucket in 6 min

Final Flow -
Strong - bottom of bucket in 13 min

Amt. of fill	0.00 ft
Btm. H. Temp.	113.00 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	Dan Bangle
Co. Rep.	Jerry Green
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Dale Solomon #1

LOCATION : 29-11S-19W-Ellis-Co-Ks

TICKET No. 10102 D.S.T. No. 3 DATE 3-7-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 30

TOTAL ASSEMBLY 70

D.C. ABOVE TOOLS.Stands8 Single 1 Total 504

D.P. ABOVE TOOLS.Stands47 Single 1 Total 2923

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3497

TOTAL DEPTH 3470

TOTAL DRILL PIPE ABOVE K.B. 27

REMARKS:
Rw .34 @ 73 = 20000 ppm



P.O. SUB	
C.O. SUB	3400
S.I. TOOL	3406
HMV	3411
JARS n/a	
SAFETY JOINT n/a	
PACKER	3415
PACKER	3420
DEPTH 3420	
STUBB 1'	3421
ANCHOR 2' perfs	3423
1' co	3424
Alpine Recorder	3424
1 Jt Dp 30'	3454
1' co	3455
T.C.	
DEPTH	
5' perfs	3460
5' perfs	3465
AK-1 Recorder	3467
BULLNOSE 5' Bullplug	3470
T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10102 DST#3 Dale Solomon #1 Hal Porter

DATE: 03/07/97 TIME: 15:17:17

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	69.00	1714.3	0.0	94.42		
****** Start Flow 1	0.00	51.2	0.0	94.69		
	1.00	71.8	20.6	94.90		
	2.00	89.9	38.7	95.06		
	3.00	103.9	52.7	95.18		
	4.00	113.6	62.4	95.27		
	5.00	126.8	75.6	95.34		
	6.00	135.8	84.6	95.40		
	7.00	146.9	95.7	95.45		
	8.00	158.9	107.7	95.49		
	9.00	170.4	119.3	95.55		
	10.00	181.9	130.8	95.59		
	11.00	194.6	143.4	95.65		
	12.00	204.7	153.5	95.73		
	13.00	214.0	162.8	95.81		
	14.00	223.7	172.6	95.91		
	15.00	232.6	181.4	96.03		
	16.00	241.1	189.9	96.17		
	17.00	249.5	198.3	96.31		
	18.00	257.5	206.3	96.48		
	19.00	265.4	214.2	96.67		
	20.00	269.7	218.5	96.87		
	21.00	273.0	221.8	97.08		
	22.00	276.2	225.0	97.31		
	23.00	279.5	228.3	97.53		
	24.00	283.0	231.8	97.77		
	25.00	286.1	234.9	98.02		
	26.00	289.0	237.9	98.27		
	27.00	292.1	241.0	98.54		
	28.00	295.1	243.9	98.80		
****** End Flow 1	29.00	298.5	247.3	99.06		
****** Start Shutin 1	0.00	298.5	0.0	99.06	0.0000	0.089
	1.00	513.9	215.4	99.33	30.0000	0.264
	2.00	555.2	256.7	99.61	15.5000	0.308
	3.00	579.2	280.7	99.89	10.6667	0.335
	4.00	596.8	298.3	100.17	8.2500	0.356
	5.00	611.0	312.5	100.45	6.8000	0.373
	6.00	622.7	324.2	100.73	5.8333	0.388
	7.00	632.8	334.3	101.01	5.1429	0.400
	8.00	641.6	343.1	101.28	4.6250	0.412
	9.00	649.6	351.1	101.55	4.2222	0.422
	10.00	656.6	358.1	101.81	3.9000	0.431
	11.00	663.1	364.6	102.07	3.6364	0.440
	12.00	669.0	370.5	102.33	3.4167	0.448
	13.00	674.4	375.8	102.57	3.2308	0.455
	14.00	679.4	380.9	102.82	3.0714	0.462
	15.00	684.0	385.5	103.06	2.9333	0.468
	16.00	688.4	389.8	103.29	2.8125	0.474
	17.00	692.3	393.8	103.52	2.7059	0.479
	18.00	696.2	397.7	103.73	2.6111	0.485
	19.00	699.8	401.3	103.94	2.5263	0.490

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10102 DST#3 Dale Solomon #1 Hal Porter

DATE: 03/07/97 TIME: 15:17:17

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	20.00	703.1	404.5	104.15	2.4500	0.494
	21.00	706.2	407.6	104.35	2.3810	0.499
	22.00	709.3	410.7	104.54	2.3182	0.503
	23.00	712.0	413.4	104.72	2.2609	0.507
	24.00	714.7	416.2	104.91	2.2083	0.511
	25.00	717.3	418.8	105.08	2.1600	0.515
	26.00	719.8	421.2	105.25	2.1154	0.518
	27.00	722.1	423.6	105.41	2.0741	0.521
	28.00	724.3	425.8	105.58	2.0357	0.525
	29.00	726.5	427.9	105.73	2.0000	0.528
	30.00	728.5	430.0	105.86	1.9667	0.531
	31.00	730.5	432.0	106.00	1.9355	0.534
	32.00	732.3	433.8	106.14	1.9062	0.536
	33.00	734.2	435.7	106.27	1.8788	0.539
	34.00	735.9	437.3	106.39	1.8529	0.542
	35.00	737.6	439.1	106.52	1.8286	0.544
	36.00	739.1	440.6	106.63	1.8056	0.546
	37.00	740.7	442.1	106.75	1.7838	0.549
	38.00	742.2	443.6	106.86	1.7632	0.551
	39.00	743.6	445.1	106.96	1.7436	0.553
	40.00	745.0	446.5	107.06	1.7250	0.555
	41.00	746.4	447.9	107.16	1.7073	0.557
	42.00	747.7	449.2	107.26	1.6905	0.559
	43.00	749.0	450.4	107.34	1.6744	0.561
******	End Shut-in 1	44.00	750.2	451.7	107.44	1.6591	0.563
******	Start Flow 2	0.00	306.9	0.0	107.60		
		1.00	311.7	4.8	107.64		
		2.00	316.5	9.6	107.68		
		3.00	320.6	13.7	107.71		
		4.00	324.5	17.6	107.75		
		5.00	328.3	21.4	107.79		
		6.00	332.1	25.2	107.83		
		7.00	335.6	28.7	107.88		
		8.00	339.0	32.1	107.94		
		9.00	342.2	35.2	107.99		
		10.00	345.7	38.8	108.05		
		11.00	348.7	41.8	108.12		
		12.00	351.7	44.8	108.20		
		13.00	354.8	47.8	108.28		
		14.00	357.5	50.6	108.36		
		15.00	360.5	53.5	108.45		
		16.00	363.1	56.2	108.54		
		17.00	365.8	58.9	108.64		
		18.00	368.4	61.5	108.74		
		19.00	371.0	64.1	108.84		
		20.00	374.0	67.1	108.96		
		21.00	376.5	69.6	109.07		
		22.00	378.9	72.0	109.18		
		23.00	381.3	74.4	109.29		
		24.00	383.8	76.9	109.40		
		25.00	386.1	79.1	109.51		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk# 10102 DST#3 Dale Solomon #1 Hal Porter

ATE: 03/07/97 TIME: 15:17:17

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	26.00	388.7	81.7	109.62		
	27.00	391.0	84.1	109.74		
	28.00	393.3	86.4	109.85		
**** End Flow 2	29.00	395.5	88.5	109.96		
**** Start Shutin 2	0.00	395.5	0.0	109.96	0.0000	0.156
	1.00	547.0	151.6	110.08	59.0000	0.299
	2.00	576.8	181.4	110.20	30.0000	0.333
	3.00	594.9	199.4	110.32	20.3333	0.354
	4.00	608.2	212.8	110.44	15.5000	0.370
	5.00	619.0	223.5	110.56	12.6000	0.383
	6.00	627.9	232.5	110.68	10.6667	0.394
	7.00	635.9	240.5	110.80	9.2857	0.404
	8.00	642.8	247.3	110.91	8.2500	0.413
	9.00	649.0	253.5	111.02	7.4444	0.421
	10.00	654.6	259.2	111.14	6.8000	0.429
	11.00	659.7	264.3	111.24	6.2727	0.435
	12.00	664.4	269.0	111.34	5.8333	0.441
	13.00	668.8	273.4	111.43	5.4615	0.447
	14.00	672.8	277.3	111.53	5.1429	0.453
	15.00	676.5	281.1	111.62	4.8667	0.458
	16.00	680.1	284.6	111.71	4.6250	0.462
	17.00	683.4	288.0	111.79	4.4118	0.467
	18.00	686.5	291.1	111.88	4.2222	0.471
	19.00	689.5	294.0	111.96	4.0526	0.475
	20.00	692.2	296.8	112.03	3.9000	0.479
	21.00	694.9	299.5	112.11	3.7619	0.483
	22.00	697.4	302.0	112.17	3.6364	0.486
	23.00	699.9	304.4	112.25	3.5217	0.490
	24.00	702.1	306.7	112.31	3.4167	0.493
	25.00	704.3	308.9	112.38	3.3200	0.496
	26.00	706.3	310.9	112.44	3.2308	0.499
	27.00	708.3	312.9	112.49	3.1481	0.502
	28.00	710.4	314.9	112.55	3.0714	0.505
	29.00	712.2	316.7	112.59	3.0000	0.507
	30.00	714.0	318.5	112.65	2.9333	0.510
	31.00	715.7	320.3	112.70	2.8710	0.512
	32.00	717.4	321.9	112.75	2.8125	0.515
	33.00	719.0	323.5	112.79	2.7576	0.517
	34.00	720.6	325.1	112.83	2.7059	0.519
	35.00	722.0	326.6	112.87	2.6571	0.521
	36.00	723.4	328.0	112.90	2.6111	0.523
	37.00	724.8	329.3	112.94	2.5676	0.525
	38.00	726.2	330.8	112.98	2.5263	0.527
	39.00	722.5	327.1	113.00	2.4872	0.522
	40.00	723.9	328.4	113.04	2.4500	0.524
	41.00	725.0	329.6	113.07	2.4146	0.526
	42.00	726.3	330.8	113.09	2.3810	0.528
	43.00	727.5	332.0	113.12	2.3488	0.529
	44.00	728.6	333.1	113.15	2.3182	0.531
	45.00	729.7	334.3	113.17	2.2889	0.533
	46.00	730.8	335.4	113.20	2.2609	0.534

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10102 DST#3 Dale Solomon #1 Hal Porter

DATE: 03/07/97 TIME: 15:17:17

		Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
******	End Shut-in 2	47.00	731.9	336.5	113.22	2.2340	0.536
******	Final Hydro.	223.00	1659.5	0.0	113.30		

TEST HISTORY

Tk# 10102 DST#3 Dale Solomon #1 Hal Porter

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1714.30
B:	0.00	51.19
C:	29.00	298.52
D:	44.00	750.22
E:	0.00	306.92
F:	29.00	395.46
G:	47.00	731.93
Q:	0.00	1659.50

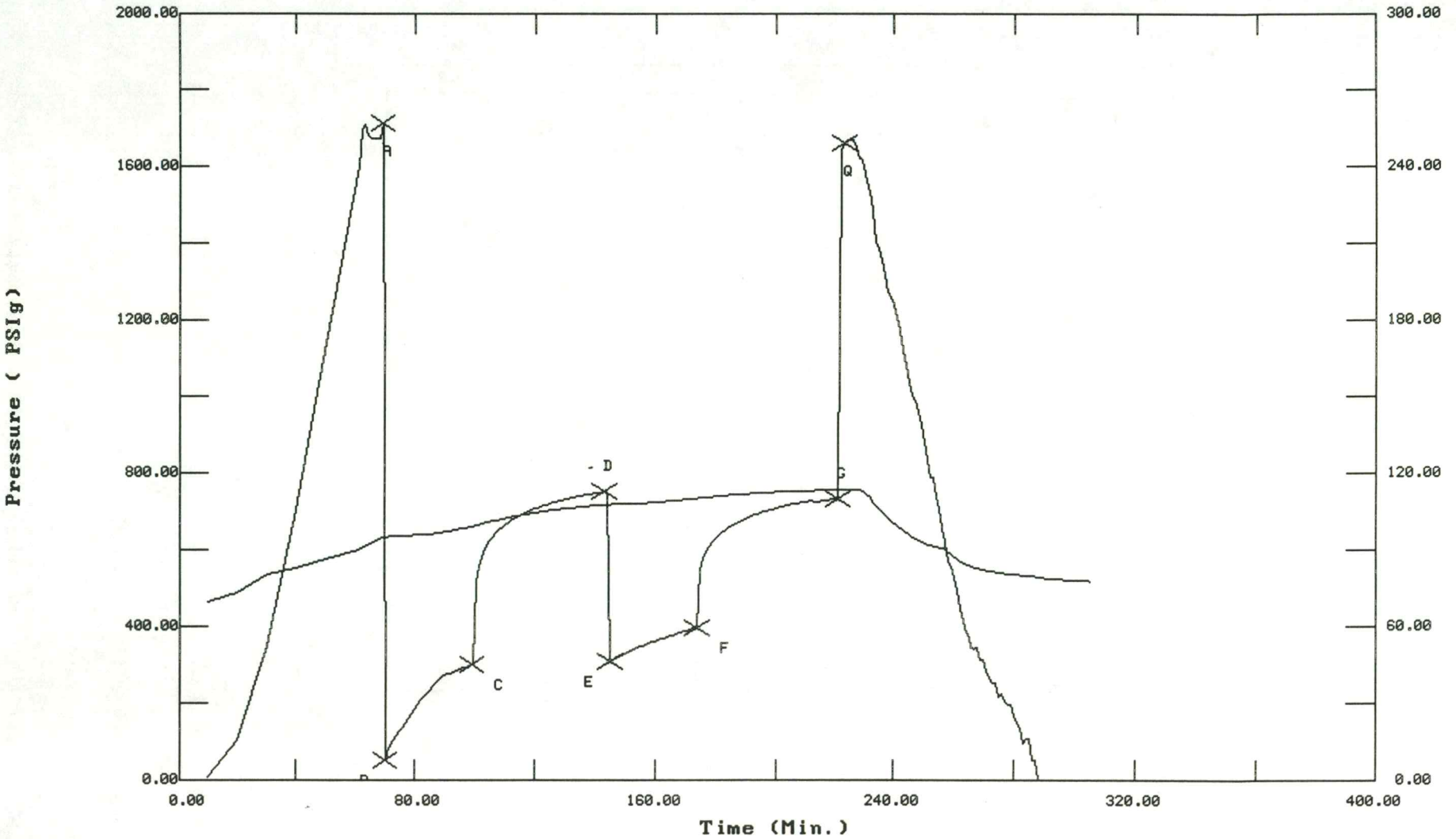
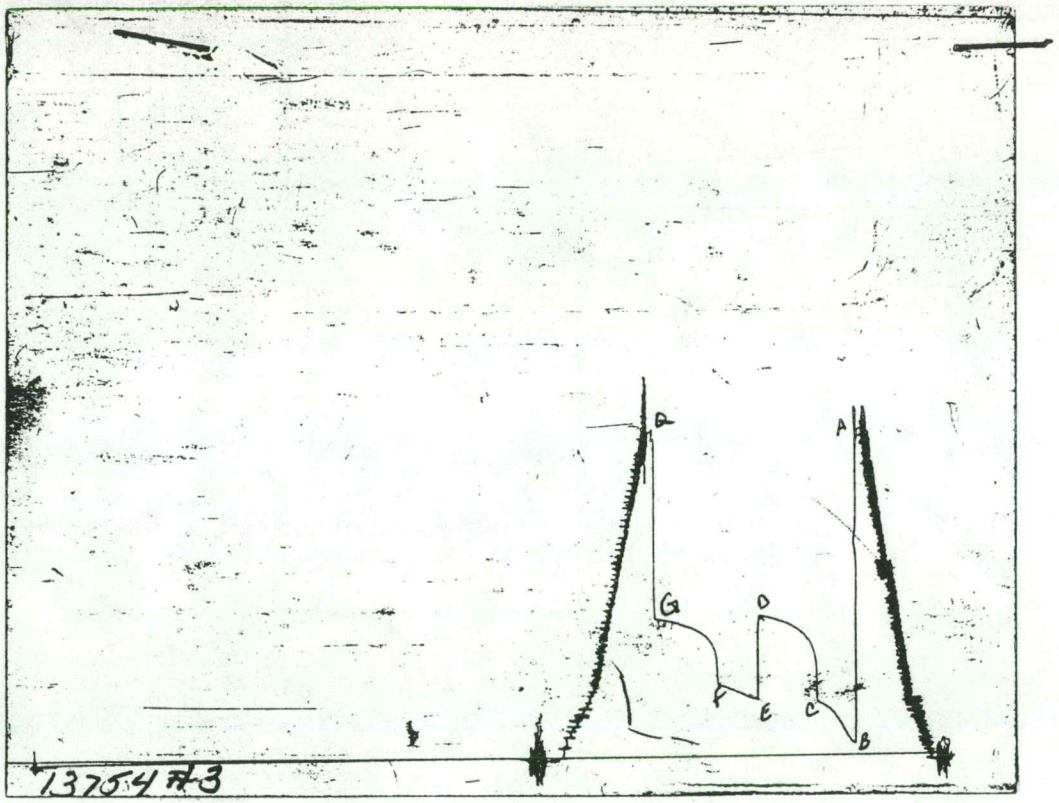


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 10102

Well Name & No. Dale Solomon #1 Test No. 3 Date 3-7-97

Company Hal Porter Zone Tested E-F-G LKC

Address _____ Elevation 2099 KB 2094 GL

Co. Rep / Geo. Terry Green Cont. Murfin #3 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 29 Twp. 11 Rge. 19 Co. Ellis State Ks.

No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 3420 - 3470 Initial Str Wt./Lbs. 61,000 Unseated Str Wt./Lbs. 63,000

Anchor Length 50 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 25,000

Top Packer Depth 3415 Tool Weight 1000

Bottom Packer Depth 3420 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3470 Wt. Pipe Run ____ Drill Collar Run 504

Mud Wt. 9.3 LCM Tr Vis. 42 WL 8.8 Drill Pipe Size 4.5 XH Ft. Run 2896

Blow Description I.F. Strong - B.O.B. in 6 min.

F.F. Strong - B.O.B. in 13 min.

Recovery — Total Feet 642 GIP _____ Ft. in DC 504 Ft. in DP 138

Rec. 642	Feet Of Mdy WTR.	%gas	%oil	%water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud
Rec. _____	Feet Of _____	%gas	%oil	%water	%mud

BHT 113 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW .34 @ 73 °F Chlorides 20,000 ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud	1686	1714	PSI	Recorder No.	2357	T-Started	15:16
(B) First Initial Flow Pressure	59	51	PSI	(depth)	3424	T-Open	16:25
(C) First Final Flow Pressure	275	299	PSI	Recorder No.	13754	T-Pulled	18:55
(D) Initial Shut-in Pressure	729	750	PSI	(depth)	3467	T-Out	20:30
(E) Second Initial Flow Pressure	295	307	PSI	Recorder No.			
(F) Second Final Flow Pressure	374	395	PSI	(depth)			
(G) Final Shut-in Pressure	709	732	PSI	Initial Opening	30	Test	600
(H) Final Hydrostatic Mud	1666	1659	PSI	Initial Shut-in	45	Jars	
	AK-1	Alpine		Final Flow	30	Safety Joint	
				Final Shut-in	45	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elect. Rec. X	150
						Other	
						TOTAL PRICE $	750

TRILOBIITE 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 Dan Bangle

TRILOBITE TESTING L.L.C.

OPERATOR : Hal Porter DATE 3-8-97
WELL NAME: Dale Solomon #1 KB 2099.00 ft TICKET NO: 10103 DST #4
LOCATION : 29-11S-19W-Ellis Co Ks GR 2094.00 ft FORMATION: Arbuckle
INTERVAL : 3565.00 To 3660.00 ft TD 3660.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13754	13754	2357		
SI 30	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0
SF 45	Clock(hrs)	12	12	Elect		
FS 30	Depth(ft)	3657.0	3657.0	3569.0	0.0	0.0

TIME DATA----------
PF Fr. 1135 to 1205 hr
IS Fr. 1205 to 1235 hr
SF Fr. 1235 to 1320 hr
FS Fr. 1320 to 1350 hr

	Field	1	2	3	4
A. Init Hydro	1916.0	1916.0	1831.0	0.0	0.0
B. First Flow	0.0	0.0	146.0	0.0	0.0
B1. Final Flow	0.0	0.0	0.0	0.0	0.0
C. In Shut-in	0.0	0.0	0.0	0.0	0.0
D. Init Flow	0.0	0.0	0.0	0.0	0.0
E. Final Flow	0.0	0.0	0.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0
G. Final Hydro	1786.0	1786.0	1761.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 1012 hr
T ON BOTM 1133 hr
T OPEN 1135 hr
T PULLED 1350 hr
T OUT 1530 hr

RECOVERY
Tot Fluid 200.00 ft of 200.00 ft in DC and 0.00 ft in DP
200.00 ft of Drilling mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	1500.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	120000.00 lbs
Initial Str Wt	64000.00 lbs
Unseated Str Wt	66000.00 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	504.00 ft
D.P. Length	3050.00 ft

BLOW DESCRIPTION
Initial Flow -
Weak building to 8" fair blow
Surging-blow decreasing

Final Flow -
Weak building to 3" surging
Blow decreasing-Flushed tool 3 times
during final flow no help

MUD DATA----------

Mud Type	Chem
Weight	9.40 lb/c
Vis.	50.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	105.00 F
Hole Condition	Poor
% 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	Dan Bangle
Co. Rep.	Jerry Green
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: N

*** TOOL DIAGRAM *** CONV

WELL NAME: Dale Solomon #1

LOCATION : 29-11S-19W-Ellis Co Ks

TICKET No. 10103 D.S.T. No. 4 DATE 3-8-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 33

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 115

D.C. ABOVE TOOLS.Stands8 Single 1 Total 504

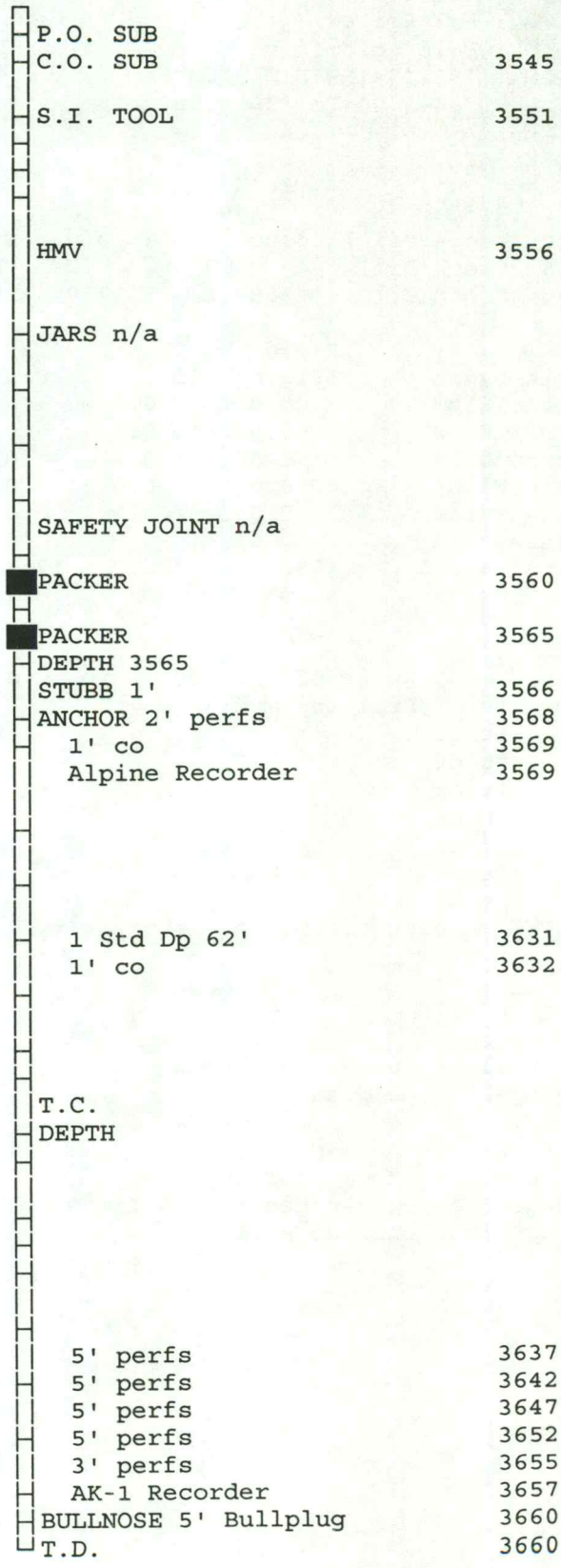
D.P. ABOVE TOOLS.Stands50 Single 1 Total 3050

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3669

TOTAL DEPTH 3660

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:
Slid tool 15' to bottom
Tool acted like it was plugging on both opens
Flushed tool during final flow



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10103 DST# 4 Dale Solomon #1 Hal Porter

DATE: 02/08/97 TIME: 10:12:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	85.00	1831.4	0.0	97.90		
****** Start Flow 1	0.00	146.0	0.0	99.08		
	1.00	1095.1	949.1	99.62		
	2.00	1127.2	981.2	100.14		
	3.00	1132.9	986.9	100.60		
	4.00	1135.9	989.8	101.00		
	5.00	1137.7	991.7	101.31		
	6.00	1139.1	993.1	101.57		
	7.00	1140.2	994.1	101.75		
	8.00	1141.0	995.0	101.92		
	9.00	1141.7	995.6	102.06		
	10.00	1142.1	996.1	102.17		
	11.00	1142.6	996.6	102.23		
	12.00	1143.0	997.0	102.29		
	13.00	1143.5	997.5	102.36		
	14.00	1143.8	997.8	102.40		
	15.00	1144.1	998.1	102.42		
	16.00	1144.3	998.3	102.46		
	17.00	1144.7	998.7	102.49		
	18.00	1144.9	998.9	102.50		
	19.00	1145.2	999.2	102.53		
	20.00	1145.4	999.3	102.54		
	21.00	1144.9	998.8	102.57		
	22.00	1145.4	999.4	102.58		
	23.00	1145.8	999.7	102.60		
	24.00	1145.9	999.9	102.61		
	25.00	1145.9	999.8	102.63		
	26.00	1146.1	1000.1	102.64		
	27.00	1146.0	1000	102.67		
	28.00	1139.8	993.8	102.68		
	29.00	1143.0	997.0	102.71		
	30.00	1143.6	997.6	102.72		
	31.00	1144.2	998.2	102.74		
	32.00	1144.4	998.4	102.77		
	33.00	1144.6	998.6	102.81		
	34.00	1144.9	998.8	102.83		
	35.00	1144.9	998.9	102.85		
	36.00	1145.0	999.0	102.88		
	37.00	1145.1	999.1	102.91		
	38.00	1145.3	999.2	102.94		
	39.00	1145.4	999.3	102.96		
	40.00	1145.4	999.4	102.99		
	41.00	1145.5	999.5	103.02		
	42.00	1145.6	999.6	103.04		
	43.00	1145.7	999.7	103.07		
	44.00	1145.9	999.9	103.10		
	45.00	1145.9	999.9	103.12		
	46.00	1145.9	999.9	103.15		
	47.00	1145.8	999.8	103.18		
	48.00	1146.0	1000	103.20		
	49.00	1146.1	1000.0	103.23		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10103 DST# 4 Dale Solomon #1 Hal Porter

DATE: 02/08/97 TIME: 10:12:40

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
50.00	1146.1	1000.0	103.25		
51.00	1146.2	1000.1	103.28		
52.00	1146.2	1000.1	103.31		
53.00	1146.2	1000.2	103.34		
54.00	1146.2	1000.2	103.37		
55.00	1146.4	1000.4	103.40		
56.00	1146.4	1000.4	103.42		
57.00	1146.3	1000.3	103.45		
58.00	430.5	284.5	103.47		
59.00	1085.0	939.0	103.49		
60.00	1433.1	1287.1	103.49		
61.00	1222.0	1076.0	103.51		
62.00	1188.1	1042.0	103.54		
63.00	1176.8	1030.8	103.57		
64.00	1172.4	1026.4	103.60		
65.00	1167.5	1021.5	103.68		
66.00	1164.5	1018.5	103.78		
67.00	1163.0	1017.0	103.90		
68.00	1162.1	1016.0	104.01		
69.00	1161.3	1015.3	104.09		
70.00	1160.9	1014.9	104.16		
71.00	1160.5	1014.5	104.22		
72.00	1178.5	1032.5	104.28		
73.00	1178.7	1032.6	104.34		
74.00	1171.1	1025.1	104.40		
75.00	1167.3	1021.3	104.45		
76.00	1165.2	1019.1	104.51		
77.00	1163.7	1017.6	104.56		
78.00	1162.7	1016.7	104.60		
79.00	1161.9	1015.9	104.63		
80.00	1161.6	1015.5	104.67		
81.00	1161.3	1015.3	104.70		
82.00	1161.4	1015.4	104.72		
83.00	1161.4	1015.4	104.75		
84.00	1161.6	1015.5	104.77		
85.00	1161.7	1015.7	104.80		
86.00	1161.8	1015.8	104.81		
87.00	1162.1	1016.1	104.85		
88.00	1162.1	1016.1	104.86		
89.00	1162.3	1016.3	104.90		
90.00	1162.5	1016.4	104.93		
91.00	1162.9	1016.9	104.96		
92.00	1163.4	1017.4	104.99		
93.00	1163.8	1017.8	105.02		
94.00	1164.3	1018.3	105.06		
95.00	1190.3	1044.2	105.07		
96.00	1201.2	1055.1	105.09		
97.00	1186.6	1040.6	105.16		
98.00	1180.9	1034.9	105.19		
99.00	1177.5	1031.5	105.24		
100.00	1176.2	1030.1	105.28		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10103 DST# 4 Dale Solomon #1 Hal Porter

DATE: 02/08/97 TIME: 10:12:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	101.00	1174.3	1028.3	105.32		
	102.00	1172.8	1026.8	105.34		
	103.00	1172.1	1026.1	105.39		
	104.00	1158.4	1012.3	105.40		
	105.00	1148.9	1002.9	105.43		
	106.00	1149.3	1003.3	105.43		
	107.00	1149.6	1003.6	105.46		
	108.00	1149.6	1003.6	105.48		
	109.00	1149.7	1003.7	105.50		
	110.00	1149.8	1003.8	105.51		
	111.00	1150.1	1004.0	105.52		
	112.00	1150.3	1004.3	105.54		
	113.00	1150.7	1004.7	105.56		
	114.00	1151.2	1005.2	105.57		
	115.00	1151.3	1005.3	105.59		
	116.00	1151.9	1005.9	105.60		
	117.00	1152.3	1006.3	105.62		
	118.00	1152.5	1006.5	105.63		
	119.00	1152.9	1006.9	105.64		
	120.00	1153.2	1007.1	105.66		
	121.00	1153.4	1007.4	105.68		
	122.00	1153.2	1007.2	105.69		
	123.00	1153.5	1007.5	105.71		
	124.00	1153.8	1007.8	105.72		
	125.00	1154.2	1008.1	105.73		
	126.00	1154.3	1008.3	105.75		
	127.00	1154.3	1008.3	105.77		
	128.00	1154.6	1008.6	105.78		
	129.00	1154.7	1008.6	105.81		
	130.00	1155.0	1008.9	105.82		
	131.00	1155.1	1009.0	105.84		
	132.00	1155.1	1009.0	105.86		
	133.00	1143.3	997.2	105.88		
	134.00	1024.6	878.6	105.91		
	135.00	1292.6	1146.5	105.94		
	136.00	757.2	611.2	106.00		
	137.00	716.9	570.9	106.08		
	138.00	1057.9	911.9	106.18		
	139.00	1738.5	1592.4	106.32		
****** End Flow 1	140.00	1760.8	1614.8	106.58		

TEST HISTORY

Tk# 10103 DST# 4 Dale Solomon #1 Hal Porter

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1831.38
B:	0.00	146.03
Q:	0.00	1760.80

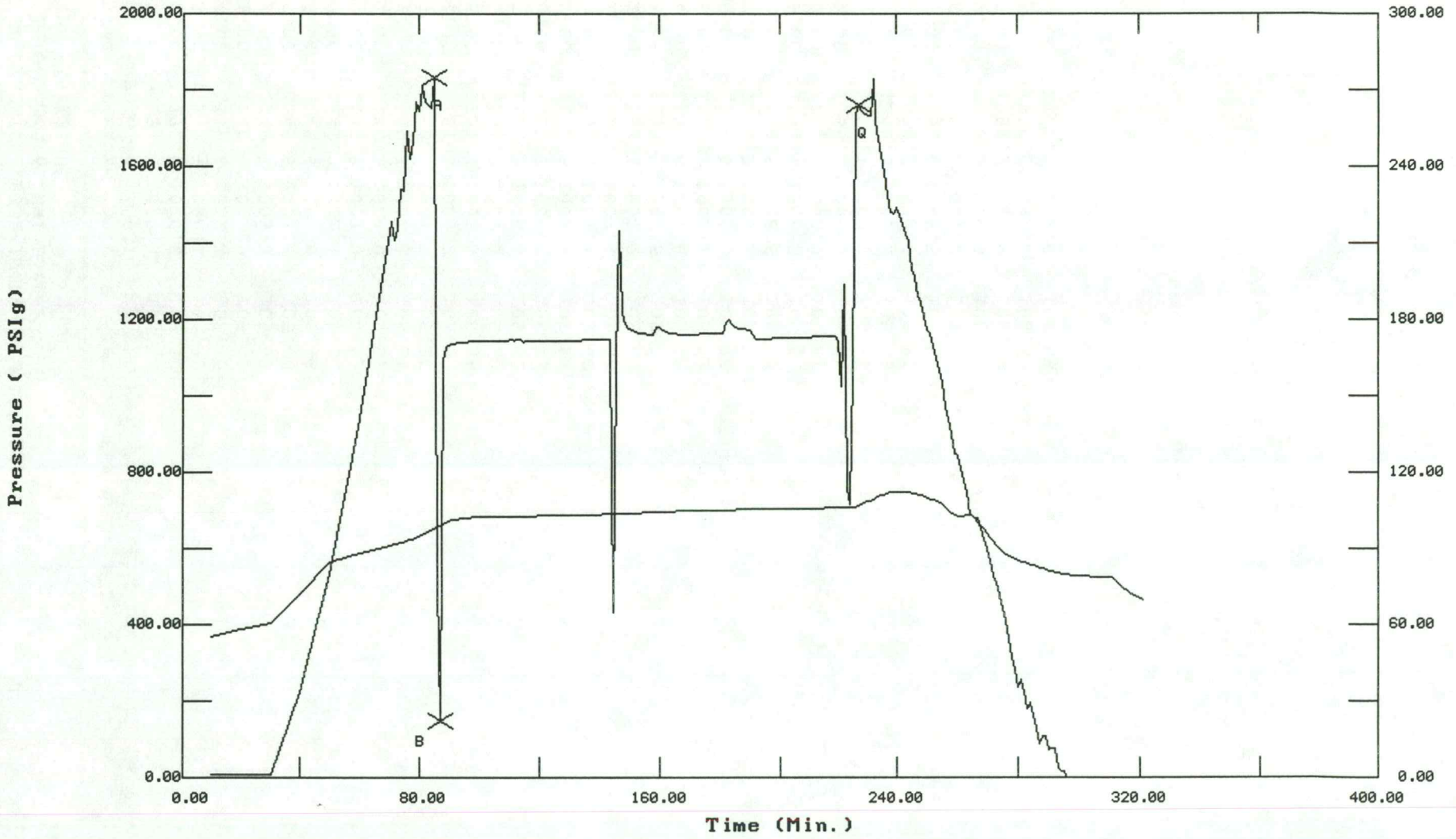
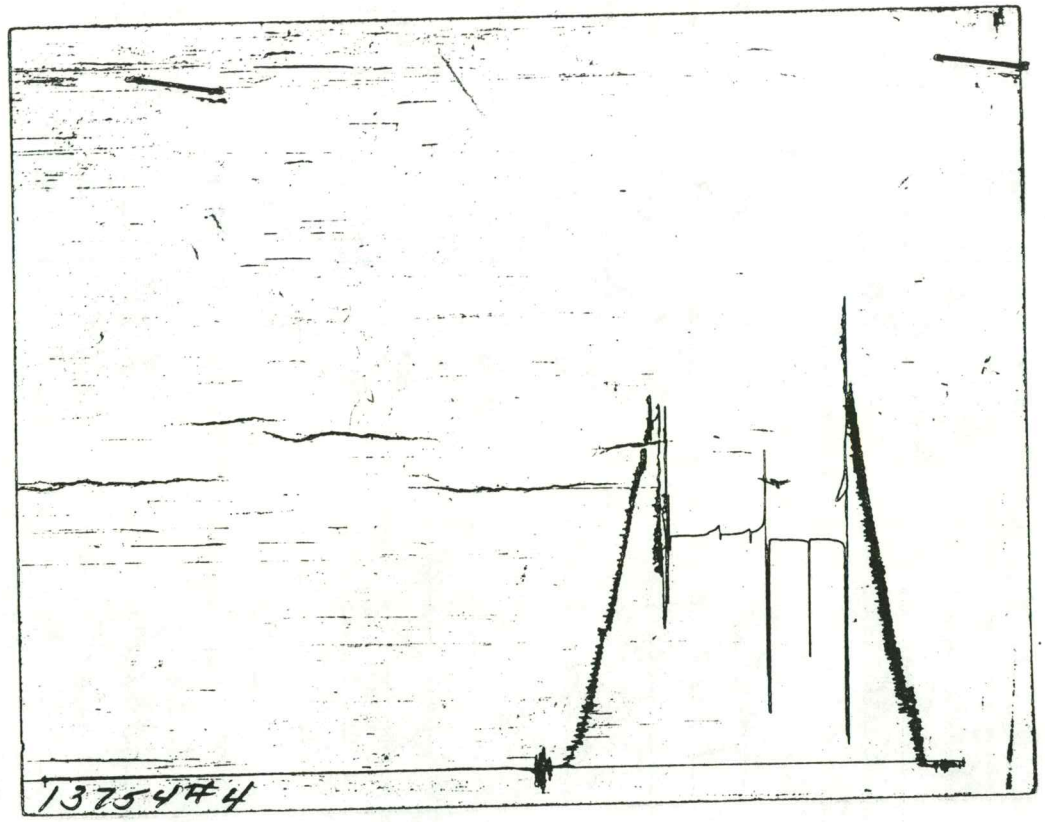


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 10103

Well Name & No. Dale Solomon #1 Test No. 4 Date 3-8-97

Company Hal Porter Zone Tested Arbuckle

Address Elevation 2099 KB 2094 GL

Co. Rep / Geo. Jerry Green Cont. Murfin #3 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 29 Twp. 11 Rge. 19 Co. Ellis State Ks

No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) ____

Interval Tested 3565 - 3660 Initial Str Wt./Lbs. 64,000 Unseated Str Wt./Lbs. 66,000

Anchor Length 95 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 120,000

Top Packer Depth 3560 Tool Weight 1500

Bottom Packer Depth 3565 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3660 Wt. Pipe Run ____ Drill Collar Run 504

Mud Wt. 9.4 LCM Tr Vis. 50 WL 8.8 Drill Pipe Size 4.5XH Ft. Run 3123

Blow Description I.F. Weak - building to 8" fair blow - surging - blow decreasing Slid Tool 15' To bottom
F.F. Weak - building To 3" surging - blow decreased
Flushed Tool 3 Times during F.F. No help.

Recovery — Total Feet 200 GIP ____ Ft. in DC 200 Ft. in DP ____

Rec. 200	Feet Of D.M.	%gas	%oil	%water	%mud
Rec. ____	Feet Of Plugged Tool	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud

BHT 105 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud	1916	1831	PSI	Recorder No. 2357	T-Started	10:12
(B) First Initial Flow Pressure	____	146	PSI	(depth) 3569	T-Open	11:35
(C) First Final Flow Pressure	____	____	PSI	Recorder No. 13754	T-Pulled	13:50
(D) Initial Shut-in Pressure	____	____	PSI	(depth) 3657	T-Out	15:30
(E) Second Initial Flow Pressure	____	____	PSI	Recorder No. ____		
(F) Second Final Flow Pressure	____	____	PSI	(depth) ____		
(G) Final Shut-in Pressure	____	____	PSI	Initial Opening 30	Test	Misrun 400
(H) Final Hydrostatic Mud	1786	1761	PSI	Initial Shut-in 30	Jars	____
	AK-1	Alpine		Final Flow 45	Safety Joint	____
				Final Shut-in 30	Straddle	____
				____	Circ. Sub	____
				____	Sampler	____
					Extra Packer	____
					Elect. Rec.	150
					Other	____
					TOTAL PRICE $	550

TRILOBIITE 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 Dan Beagle

TRILOBITE TESTING L.L.C.

OPERATOR : Hal Porter — DATE 3-8-97
WELL NAME: Dale Solomon #1 — KB 2099.00 ft — TICKET NO: 10104 — DST #5
LOCATION : 29-11S-19W — GR 2094.00 ft — FORMATION: Arbuckle
INTERVAL : 3567.00 To 3665.00 ft — TD 3665.00 ft — TEST TYPE: CONV

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13754	13754	2357		
SI	30	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0
SF	30	Clock(hrs)	12	12	Elect		
FS	30	Depth(ft)	3662.0	3662.0	3562.0	0.0	0.0

TIME DATA----------
PF Fr. 2305 to 2335 hr
IS Fr. 2335 to 2405 hr
SF Fr. 2405 to 2435 hr
FS Fr. 2435 to 0105 hr

	Field	1	2	3	4
A. Init Hydro	1886.0	1874.0	1833.0	0.0	0.0
B. First Flow	196.0	204.0	204.0	0.0	0.0
B1. Final Flow	393.0	417.0	412.0	0.0	0.0
C. In Shut-in	1146.0	1162.0	1144.0	0.0	0.0
D. Init Flow	393.0	392.0	385.0	0.0	0.0
E. Final Flow	492.0	486.0	460.0	0.0	0.0
F. Fl Shut-in	1156.0	1165.0	1142.0	0.0	0.0
G. Final Hydro	1786.0	1836.0	1763.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 2135 hr
T ON BOTM 2303 hr
T OPEN 2305 hr
T PULLED 0105 hr
T OUT 0315 hr

RECOVERY
Tot Fluid 780.00 ft of 504.00 ft in DC and 276.00 ft in DP
300.00 ft of Mud cut oil 70%O 30%M
180.00 ft of Mud cut gassy oil 10%G 70%O 20%M
300.00 ft of Slightly mud cut gassy oil 15%G 80%O 5%M
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	1500.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	70000.00 lbs
Initial Str Wt	64000.00 lbs
Unseated Str Wt	66000.00 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	504.00 ft
D.P. Length	3050.00 ft

BLOW DESCRIPTION
Initial Flow -
Strong bottom of bucket in 2 min

Final Flow -
No blow-Flushed tool-Strong bottom of bucket in 3 min

MUD DATA----------

Mud Type	Chem
Weight	9.30 lb/c
Vis.	62.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	109.00 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	Dan Bangle
Co. Rep.	Jerry Green
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Dale Solomon #1

LOCATION : 29-11S-19W

TICKET No. 10104 D.S.T. No. 5 DATE 3-8-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 36

TOTAL TOOL 64

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 126

D.C. ABOVE TOOLS.Stands8 Single 1 Total 504

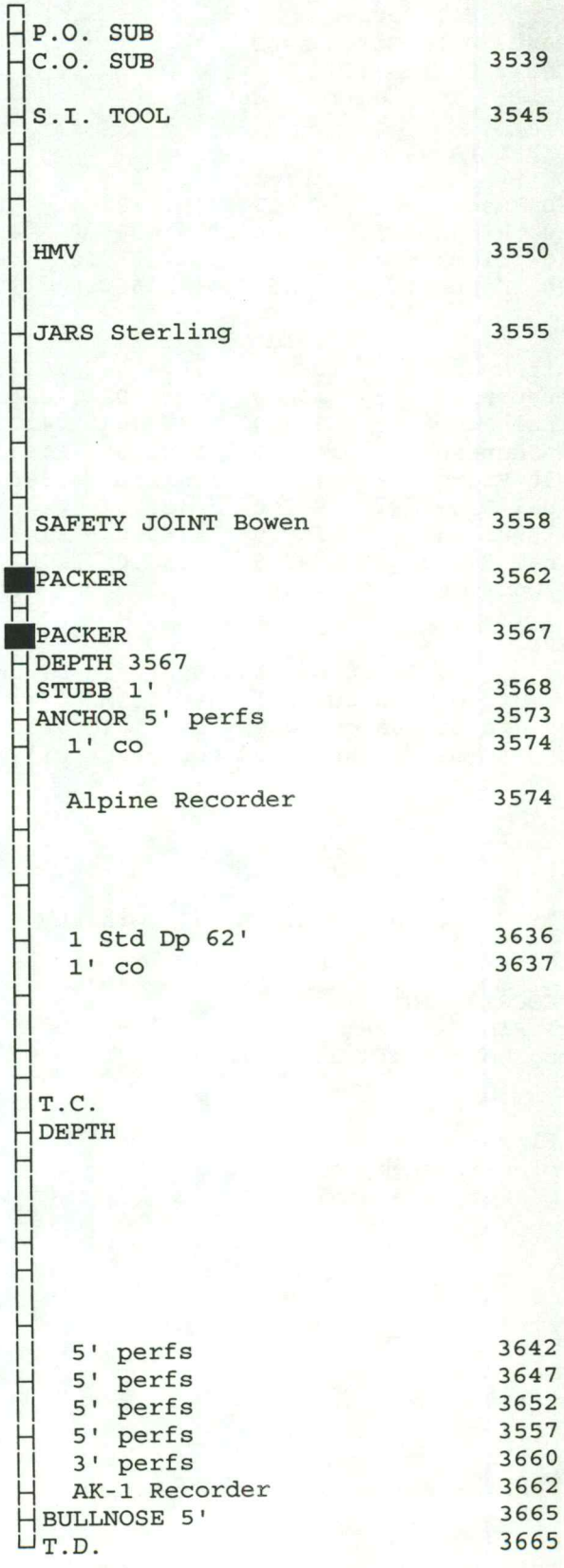
D.P. ABOVE TOOLS.Stands50 Single 1 Total 3050

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3680

TOTAL DEPTH 3665

TOTAL DRILL PIPE ABOVE K.B. 15

REMARKS:
Flushed tool on second flow
Tool plugged on both opens

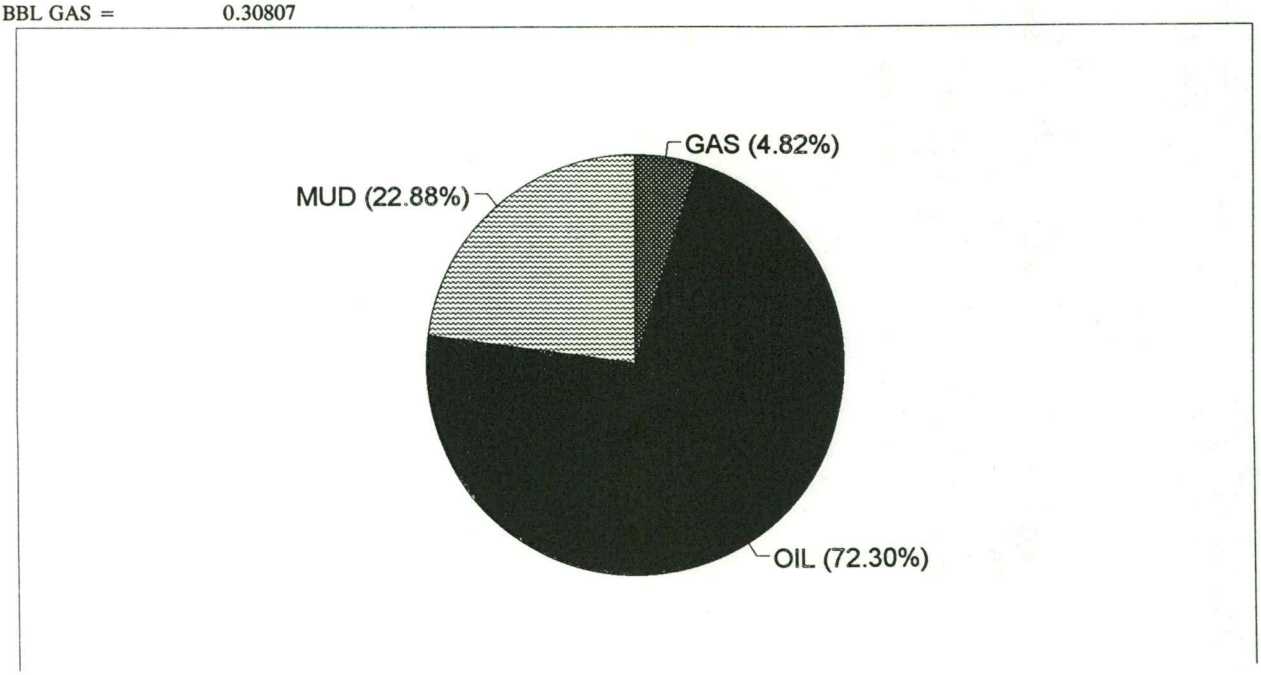


CALCULATED RECOVERY ANALYSIS

DST 5 TICKET 10104

SAMPLE #		TOTAL FEET	%	GAS FEET	%	OIL FEET	%	WATER FEET	%	MUD FEET
DRILL	1	276		0	70	193.2		0	30	82.8
PIPE	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
	5			0		0		0		0
	6			0		0		0		0
WEIGHT	1			0		0		0		0
PIPE	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
DRILL	1	24		0	70	16.8		0	30	7.2
COLLARS	2	180	10	18	70	126		0	20	36
	3	300	15	45	80	240		0	5	15
	4			0		0		0		0
	5			0		0		0		0
TOTAL		780		63		576		0		141

			HRS OPEN		BBL/DAY
BBL OIL=	4.619196	*	1	=	110.8607
BBL WATER=	0	*		=	0
BBL MUD=	1.462014				
BBL GAS =	0.30807				



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10104 DST #5 Dale Solomon #1 Hal Porter

DATE: 03/08/97 TIME: 21:36:03

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	90.00	1833.1	0.0	96.91		
****** Start Flow 1	0.00	204.4	0.0	97.46		
	1.00	219.5	15.2	97.69		
	2.00	301.4	97.0	97.92		
	3.00	319.8	115.4	98.66		
	4.00	301.2	96.9	99.92		
****** End Flow 1	5.00	412.4	208.1	101.48		
****** Start Shutin 1	0.00	412.4	0.0	101.48	0.0000	0.170
	1.00	983.1	570.7	103.09	6.0000	0.967
	2.00	1091.9	679.5	104.56	3.5000	1.192
	3.00	1107.3	694.9	105.77	2.6667	1.226
	4.00	1114.4	702.0	106.73	2.2500	1.242
	5.00	1119.3	706.9	107.42	2.0000	1.253
	6.00	1122.8	710.4	107.90	1.8333	1.261
	7.00	1124.6	712.2	108.22	1.7143	1.265
	8.00	1127.6	715.2	108.42	1.6250	1.272
	9.00	1129.3	716.9	108.54	1.5556	1.275
	10.00	1130.8	718.4	108.60	1.5000	1.279
	11.00	1131.9	719.5	108.62	1.4545	1.281
	12.00	1133.0	720.6	108.59	1.4167	1.284
	13.00	1134.0	721.6	108.53	1.3846	1.286
	14.00	1134.8	722.4	108.48	1.3571	1.288
	15.00	1135.4	723.0	108.39	1.3333	1.289
	16.00	1136.0	723.6	108.32	1.3125	1.291
	17.00	1136.6	724.2	108.23	1.2941	1.292
	18.00	1137.2	724.8	108.13	1.2778	1.293
	19.00	1137.5	725.1	108.02	1.2632	1.294
	20.00	1138.1	725.6	107.95	1.2500	1.295
	21.00	1138.5	726.1	107.85	1.2381	1.296
	22.00	1138.9	726.5	107.77	1.2273	1.297
	23.00	1139.2	726.8	107.67	1.2174	1.298
	24.00	1139.5	727.1	107.59	1.2083	1.298
	25.00	1139.6	727.2	107.50	1.2000	1.299
	26.00	1140.0	727.6	107.42	1.1923	1.300
	27.00	1140.2	727.7	107.35	1.1852	1.300
	28.00	1138.5	726.1	107.28	1.1786	1.296
	29.00	1140.6	728.2	107.20	1.1724	1.301
	30.00	1140.7	728.3	107.12	1.1667	1.301
	31.00	1141.1	728.7	107.05	1.1613	1.302
	32.00	1141.2	728.8	106.98	1.1562	1.302
	33.00	1141.4	729.0	106.91	1.1515	1.303
	34.00	1141.7	729.2	106.85	1.1471	1.303
	35.00	1141.9	729.5	106.79	1.1429	1.304
	36.00	1142.0	729.6	106.73	1.1389	1.304
	37.00	1142.1	729.7	106.68	1.1351	1.304
	38.00	1142.2	729.8	106.63	1.1316	1.305
	39.00	1142.4	730.0	106.58	1.1282	1.305
	40.00	1142.6	730.2	106.53	1.1250	1.306
	41.00	1142.7	730.3	106.48	1.1220	1.306
	42.00	1142.8	730.4	106.44	1.1190	1.306
	43.00	1143.0	730.6	106.41	1.1163	1.306

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10104 DST #5 Dale Solomon #1 Hal Porter

DATE: 03/08/97 TIME: 21:36:03

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	44.00	1143.1	730.7	106.37	1.1136	1.307
	45.00	1143.2	730.8	106.32	1.1111	1.307
	46.00	1143.3	730.9	106.29	1.1087	1.307
	47.00	1143.4	731.0	106.25	1.1064	1.307
	48.00	1143.5	731.1	106.22	1.1042	1.308
	49.00	1143.7	731.3	106.19	1.1020	1.308
	50.00	1143.8	731.3	106.16	1.1000	1.308
	51.00	1143.8	731.4	106.14	1.0980	1.308
	52.00	1143.9	731.5	106.11	1.0962	1.309
	53.00	1144.0	731.6	106.09	1.0943	1.309
	54.00	1144.2	731.8	106.06	1.0926	1.309
	55.00	1144.2	731.8	106.04	1.0909	1.309
	56.00	1144.3	731.9	106.02	1.0893	1.309
	57.00	1144.3	731.9	106.01	1.0877	1.309
	58.00	1144.3	731.9	105.99	1.0862	1.310
	59.00	1144.4	732.0	105.97	1.0847	1.310
	60.00	1144.5	732.1	105.95	1.0833	1.310
	61.00	1144.7	732.3	105.93	1.0820	1.310
	62.00	1144.8	732.4	105.92	1.0806	1.311
	63.00	1144.8	732.4	105.91	1.0794	1.311
	64.00	1144.9	732.5	105.89	1.0781	1.311
	65.00	1145.0	732.6	105.87	1.0769	1.311
****** End Shut-in 1	66.00	1145.0	732.6	105.86	1.0758	1.311
****** Start Flow 2	0.00	385.1	0.0	105.84		
	1.00	385.6	0.5	105.80		
	2.00	393.7	8.6	105.72		
	3.00	406.6	21.6	105.62		
	4.00	418.5	33.4	105.52		
	5.00	422.1	37.1	105.43		
	6.00	436.2	51.2	105.35		
	7.00	447.5	62.4	105.28		
****** End Flow 2	8.00	460.0	74.9	105.22		
****** Start Shutin 2	0.00	460.0	0.0	105.22	0.0000	0.212
	1.00	756.2	296.2	105.17	14.0000	0.572
	2.00	1095.2	635.2	105.16	7.5000	1.200
	3.00	1103.6	643.6	105.34	5.3333	1.218
	4.00	1111.3	651.3	105.73	4.2500	1.235
	5.00	1116.9	656.9	106.22	3.6000	1.247
	6.00	1120.3	660.3	106.69	3.1667	1.255
	7.00	1122.9	662.9	107.12	2.8571	1.261
	8.00	1125.1	665.1	107.49	2.6250	1.266
	9.00	1126.8	666.8	107.81	2.4444	1.270
	10.00	1128.3	668.3	108.10	2.3000	1.273
	11.00	1125.0	665.0	108.33	2.1818	1.266
	12.00	1130.8	670.8	108.53	2.0833	1.279
	13.00	1131.7	671.7	108.71	2.0000	1.281
	14.00	1132.6	672.6	108.86	1.9286	1.283
	15.00	1133.5	673.5	108.99	1.8667	1.285
	16.00	1134.3	674.3	109.15	1.8125	1.287
	17.00	1134.9	674.9	109.17	1.7647	1.288
	18.00	1135.5	675.5	109.25	1.7222	1.289

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10104 DST #5 Dale Solomon #1 Hal Porter

DATE: 03/08/97 TIME: 21:36:03

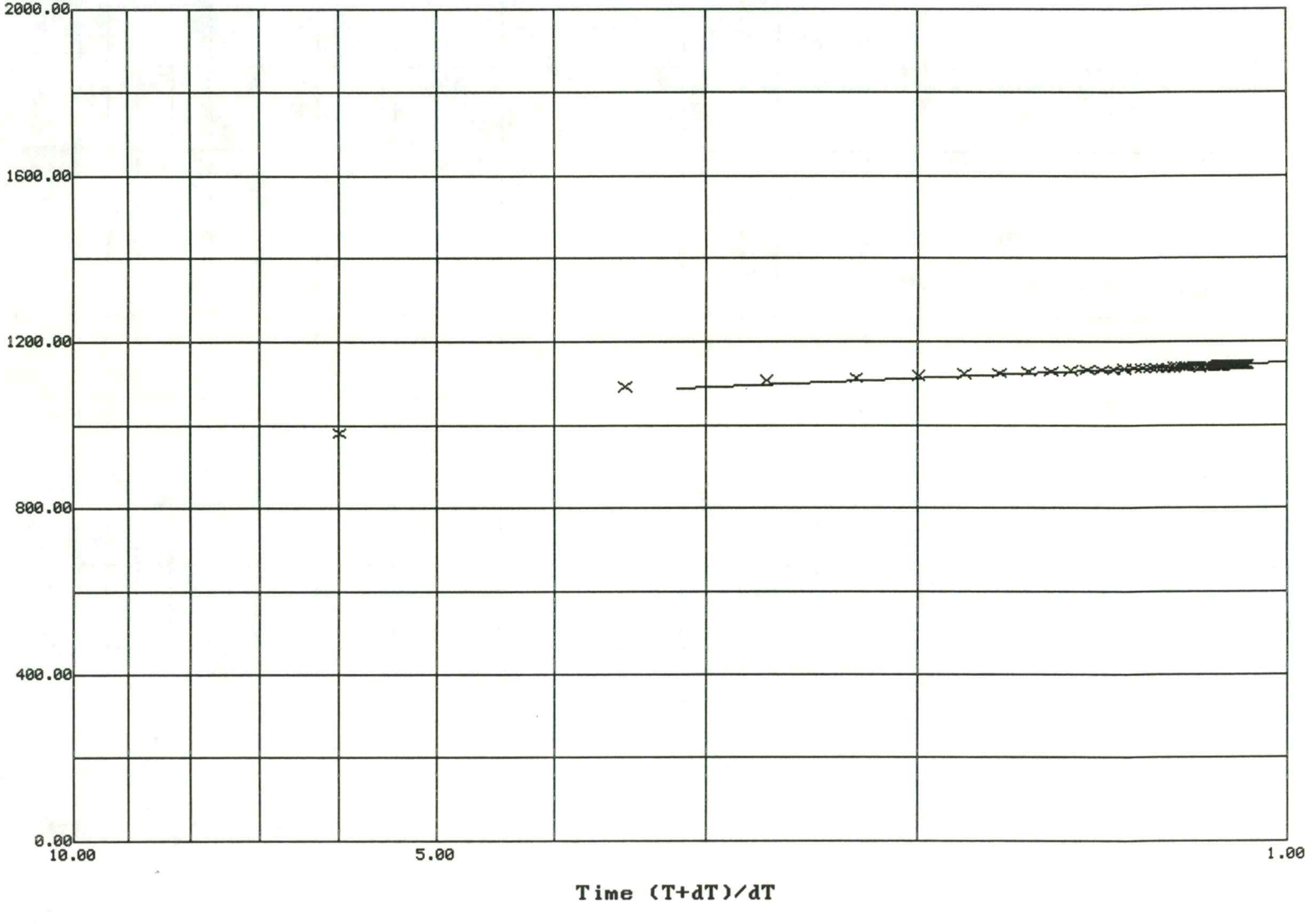
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	1136.1	676.1	109.30	1.6842	1.291
	20.00	1136.5	676.5	109.34	1.6500	1.292
	21.00	1137.0	677.0	109.37	1.6190	1.293
	22.00	1137.5	677.5	109.41	1.5909	1.294
	23.00	1137.9	677.9	109.42	1.5652	1.295
	24.00	1138.2	678.2	109.44	1.5417	1.296
	25.00	1138.7	678.7	109.45	1.5200	1.297
	26.00	1138.9	678.9	109.47	1.5000	1.297
	27.00	1139.3	679.3	109.49	1.4815	1.298
	28.00	1139.7	679.7	109.50	1.4643	1.299
	29.00	1139.9	679.9	109.51	1.4483	1.299
	30.00	1140.3	680.3	109.53	1.4333	1.300
	31.00	1140.6	680.6	109.54	1.4194	1.301
	32.00	1140.8	680.8	109.56	1.4062	1.301
	33.00	1141.1	681.1	109.56	1.3939	1.302
	34.00	1141.3	681.3	109.58	1.3824	1.303
	35.00	1141.5	681.5	109.59	1.3714	1.303
	36.00	1141.7	681.7	109.61	1.3611	1.304
	37.00	1141.9	681.9	109.61	1.3514	1.304
	38.00	1142.2	682.2	109.61	1.3421	1.305
****** End Shut-in 2	39.00	1142.3	682.3	109.62	1.3333	1.305
****** Final Hydro.	215.00	1763.8	0.0	109.73		

Horner Plot: shut-in #1

Tk #10104 DST #5 Dale Solomon #1 Hal Porter

Slope: 125.3855 PSIg/cycle

Ext. Pressure: 1148.9653 PSIg

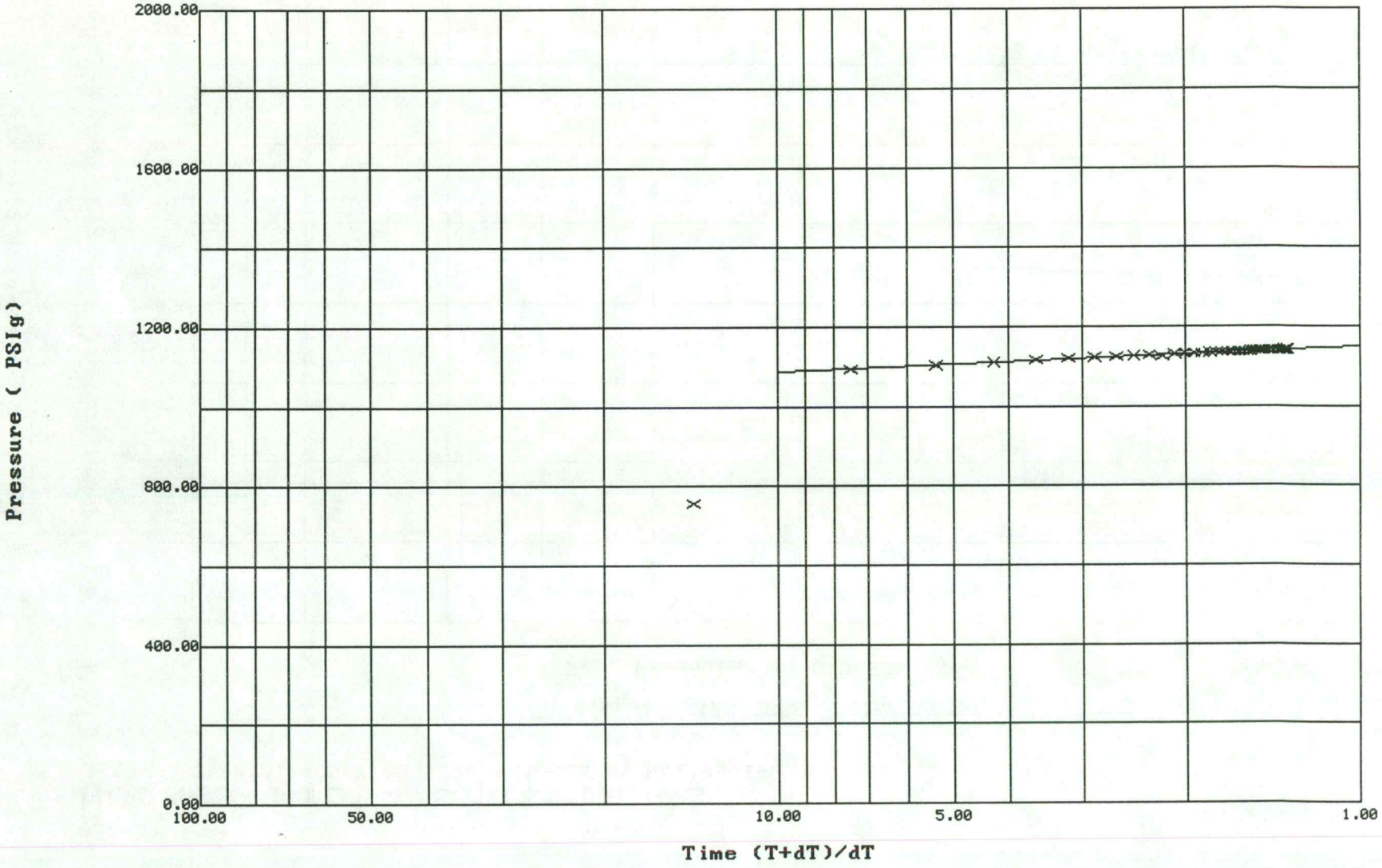


Horner Plot: shut-in #2

Tk #10104 DST #5 Dale Solomon #1 Hal Porter

Slope: 60.4951 PSIg/cycle

Ext. Pressure: 1149.7621 PSIg



TEST HISTORY

Tk #10104 DST #5 Dale Solomon #1 Hal Porter

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1833.14
B:	0.00	204.36
C:	5.00	412.41
D:	66.00	1144.98
E:	0.00	385.05
F:	8.00	460.00
G:	39.00	1142.33
Q:	0.00	1763.82

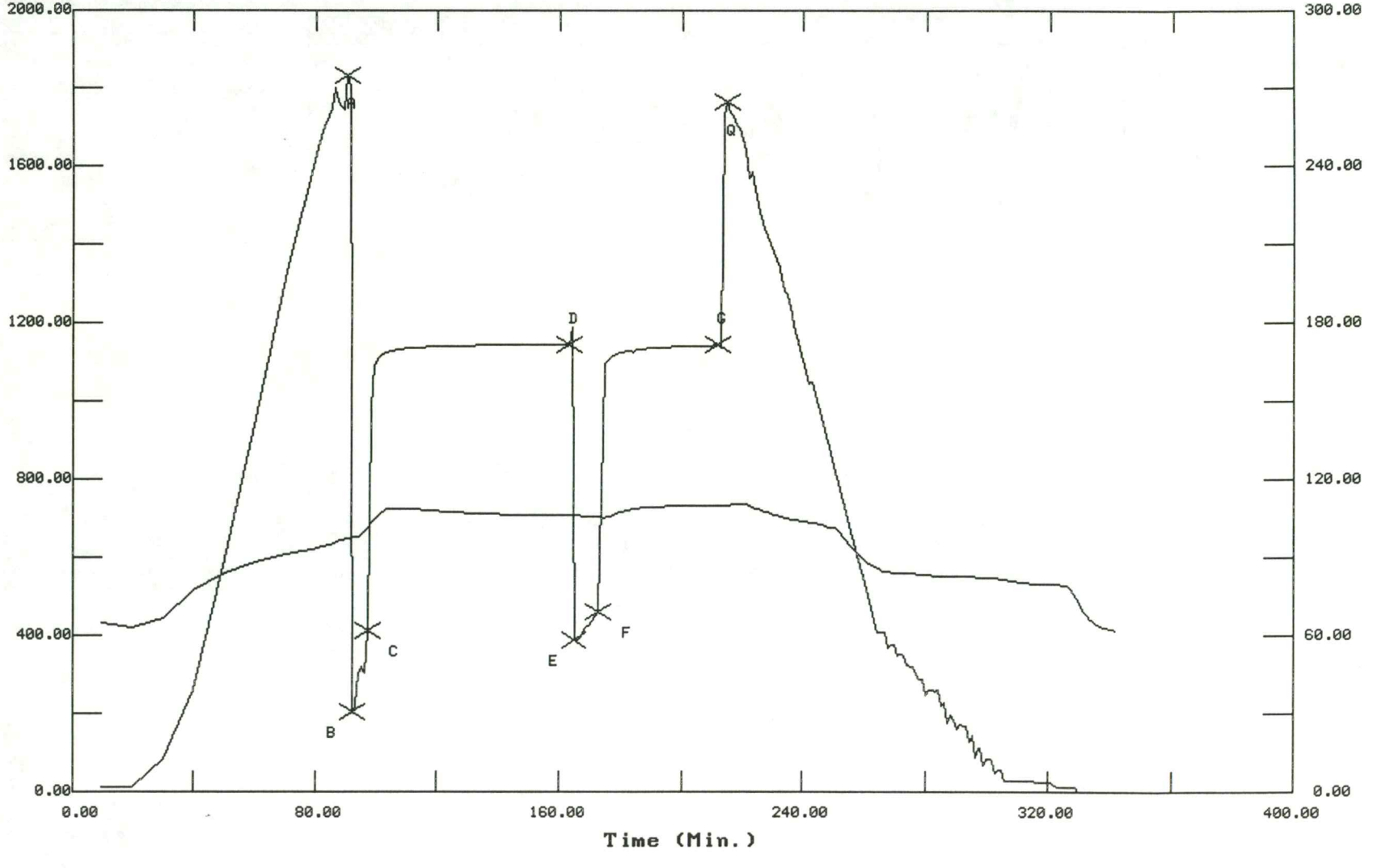
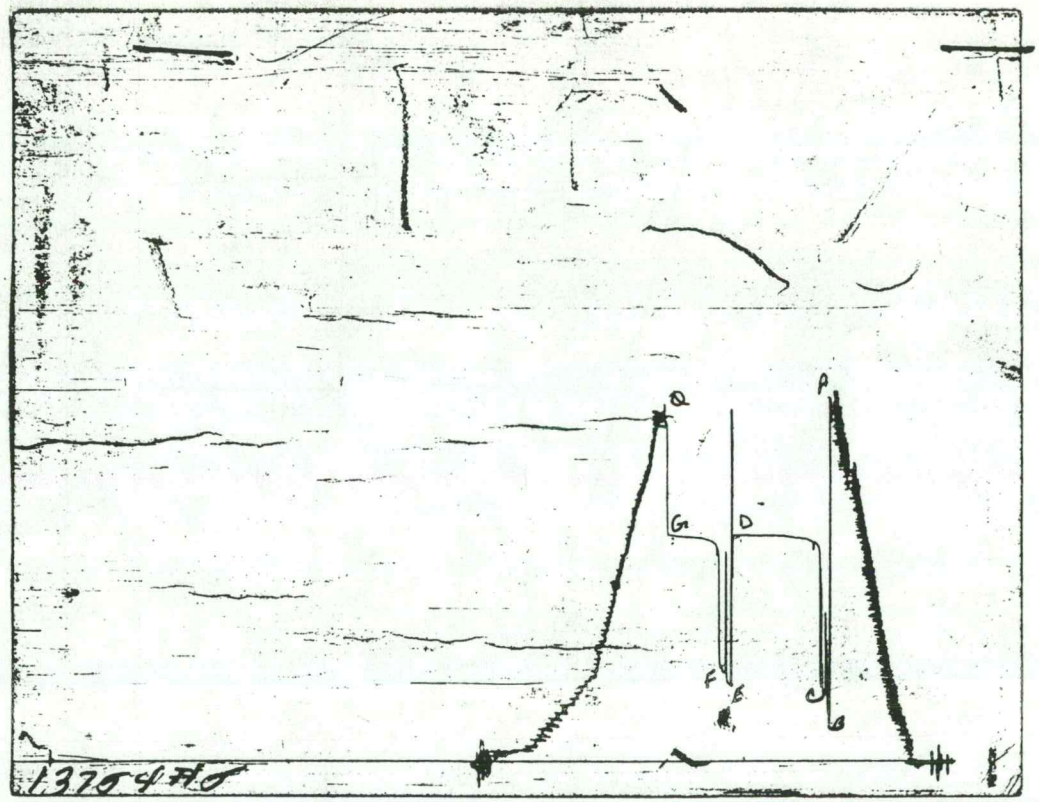


CHART PAGE



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