WELL NAME:	Stauffer #1
COMPANY:	Range Oil Company Inc.
LOCATION:	23-23s-12e
	Greenwood County, Kansas
DATE:	10/13/98

TRILOBITE TESTING L.L.C.

OPERATOR : Range Oil Co Inc. DATE 10-7-98
WELL NAME: Stauffer #1 KB 1119.00 ft TICKET NO: 11861 DST #1
LOCATION : 23-23s-12e Greenwood KS GR 1114.00 ft FORMATION: Simpson
INTERVAL : 2140.00 To 2216.00 ft TD 2216.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	10991		
SI 30	Range(Psi)	4025.0	4025.0	4200.0	0.0	0.0
SF 30	Clock(hrs)	12	12	12		
FS 30	Depth(ft)	2213.0	2213.0	2144.0	0.0	0.0

TIME DATA----------
PF Fr. 0535 to 0605 hr
IS Fr. 0605 to 0635 hr
SF Fr. 0635 to 0705 hr
FS Fr. 0705 to 0735 hr

	Field	1	2	3	4
A. Init Hydro	1095.0	1093.0	0.0	0.0	0.0
B. First Flow	71.0	68.0	0.0	0.0	0.0
B1. Final Flow	71.0	68.0	0.0	0.0	0.0
C. In Shut-in	334.0	342.0	0.0	0.0	0.0
D. Init Flow	61.0	68.0	0.0	0.0	0.0
E. Final Flow	61.0	68.0	0.0	0.0	0.0
F. Fl Shut-in	375.0	399.0	0.0	0.0	0.0
G. Final Hydro	1095.0	1093.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0200 hr
T ON BOTM 0500 hr
T OPEN 0535 hr
T PULLED 0735 hr
T OUT 0950 hr

RECOVERY
Tot Fluid 25.00 ft of 25.00 ft in DC and 0.00 ft in DP
25.00 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
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	25000.00 lbs
Initial Str Wt	21000.00 lbs
Unseated Str Wt	21000.00 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	189.00 ft
D.P. Length	2010.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak blow built to 1/2" in water
Initial Shut-in:
No blow back
Final Flow:
No blow
Final Shut-in:
No blow back

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

Mud Type	Chemical
Weight	9.50 lb/c
Vis.	44.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	108.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Darren Amerine
Co. Rep.	Tom Blair
Contr.	Rig 6 Drilling
Rig #	7
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11861

Well Name & No. Stauffer #1 Test No. #1 Date 10/07/1998

Company Range Oil Co Inc. Zone Tested Simpson

Address 125 N. Market Suite 1120 Wichita, KS 67202 Elevation 1119 KB 1114 GL

Co. Rep / Geo. Tom Blair Cont. Rig Six Drilling #7 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 23 Twp. 23S Rge. 12E Co Greenwood State KS

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

Interval Tested 2140' - 2216' Initial Str Wt./Lbs. 21,000 Unseated Str Wt./Lbs. 9,000

Anchor Length 76' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 25,000

Top Packer Depth 2135' Tool Weight 2100

Bottom Packer Depth 2140' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Total Depth 2216' Wt. Pipe Run N/A Drill Collar Run 189

Mud Wt. 9.3 LCM Trc Vis. 44 WL ___ Drill Pipe Size 3½ IF Ft. Run 2010

Blow Description IF: Weak blow built to ½" in H20.

FSI: No bb.

FF: No blow.

FSI: No bb.

Recovery — Total Feet 25' GIP ___ Ft. in DC 25' Ft. in DP ___

Rec. 25 Feet Of Drilling Mud %gas %oil Trace %water 99 %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 108° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 600 ppm System

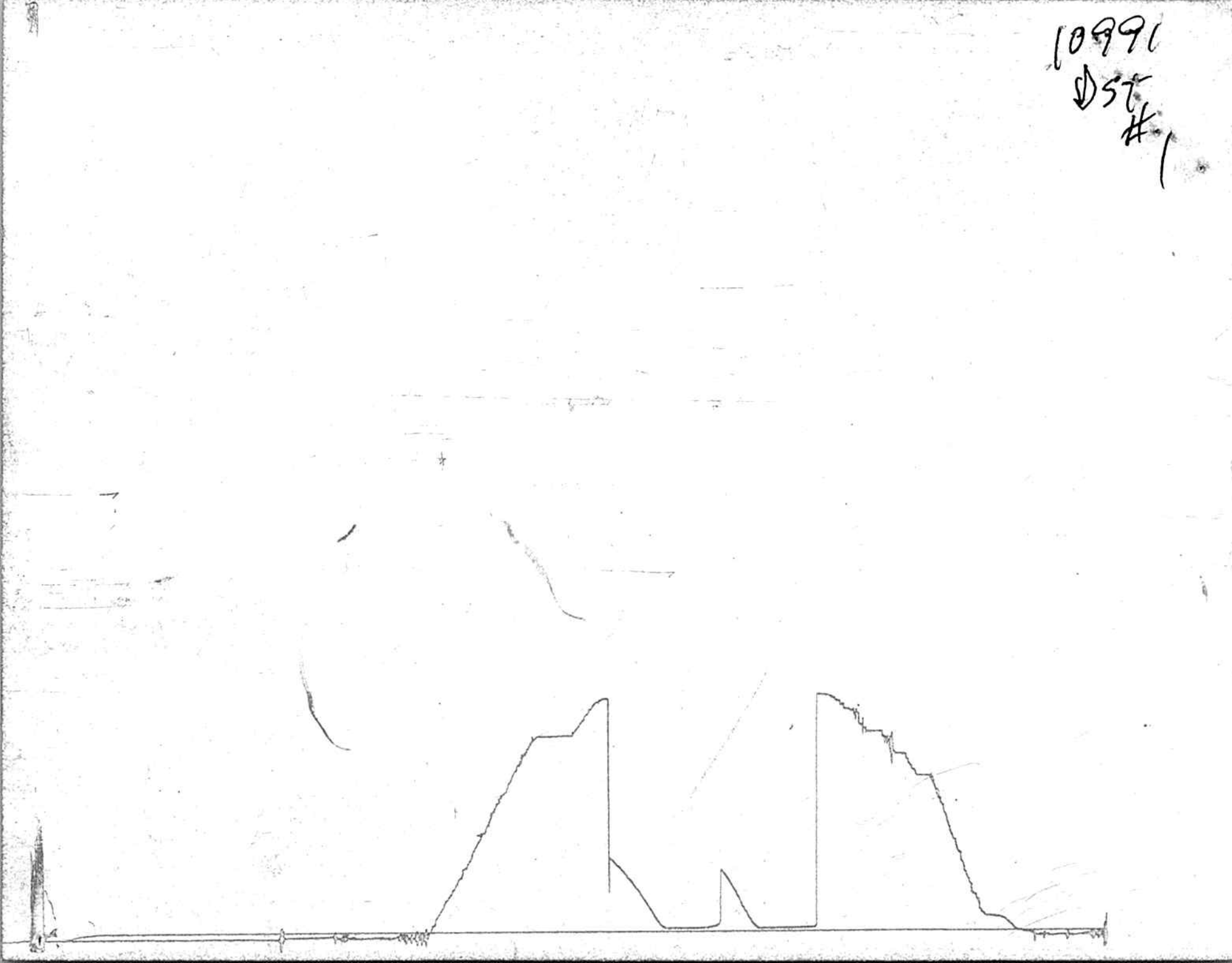
	AK-1	Alpine					
(A) Initital Hydrostatic Mud	1095		PSI	Recorder No.	10332	T-On Location	00:45
(B) First Initial Flow Pressure	71		PSI	(depth)	2213	T-Started	02:00
(C) First Final Flow Pressure	71		PSI	Recorder No.	10991	T-Open	05:35
(D) Initial Shut-In Pressure	334		PSI	(depth)	2144	T-Pulled	07:35
(E) Second Initial Flow Pressure	61		PSI	Recorder No.		T-Out	09:50
(F) Second Final Flow Pressure	61		PSI	(depth)		T-Off Location	11:30
(G) Final Shut-in Pressure	375		PSI	Initial Opening	30	Test	✓ 600
(Q) Final Hydrostatic Mud	1095		PSI	Initial Shut-in	30	Jars	
				Final Flow	30	Safety Joint	
				Final Shut-in	30	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec.	
						Mileage	
						Other	

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Approved By ___

600

10991
DST #1



TRILOBITE TESTING L.L.C.

)PERATOR : Rangle Oil Co. Inc. DATE 10-7-98
/ELL NAME: Stauffer #1 KB 1119.00 ft TICKET NO: 11862 DST #2
.OCATION : 23-23s-12e Greenwood KS GR 1114.00 ft FORMATION: Arbuckle
NTERVAL : 2138.00 To 2224.00 ft TD 2224.00 ft TEST TYPE: CONV

ECORDER DATA

Mins		Field	1	2	3	4
F 30	Rec.	10332	10332	10991		
I 30	Range(Psi)	4025.0	4025.0	4200.0	0.0	0.0
F 30	Clock(hrs)	12	12	12		
S 30	Depth(ft)	2221.0	2221.0	2146.0	0.0	0.0

TIME DATA----------
PF Fr. 0010 to 0040 hr
IS Fr. 0040 to 0110 hr
SF Fr. 0110 to 0140 hr
FS Fr. 0140 to 0210 hr

	Field	1	2	3	4
. Init Hydro	1145.0	1126.0	0.0	0.0	0.0
. First Flow	71.0	74.0	0.0	0.0	0.0
1. Final Flow	81.0	74.0	0.0	0.0	0.0
. In Shut-in	740.0	745.0	0.0	0.0	0.0
. Init Flow	0.0	0.0	0.0	0.0	0.0
. Final Flow	0.0	0.0	0.0	0.0	0.0
. Fl Shut-in	750.0	771.0	0.0	0.0	0.0
. Final Hydro	1135.0	1116.0	0.0	0.0	0.0
nside/Outside	O	O	I		

T STARTED 2030 hr
T ON BOTM 0005 hr
T OPEN 0010 hr
T PULLED 0210 hr
T OUT 0500 hr

ECOVERY
ot Fluid 40.00 ft of 40.00 ft in DC and 0.00 ft in DP
).00 ft of Drilling mud
.00 ft of
.00 ft of
.00 ft of
.00 ft of
.00 ft of
.00 ft of
.00 ft of
ALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	24000.00 lbs
Initial Str Wt	21000.00 lbs
Unseated Str Wt	21000.00 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	189.00 ft
D.P. Length	2003.00 ft

LOW DESCRIPTION
nitial Flow:
Weak blow built to 2" in water
nitial Shut-in:
Bled down for 5 mins. no blow back
inal Flow:
Dead blow
inal Shut-in:
No blow back

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

Mud Type	Chemical
Weight	9.60 lb/cf
Vis.	43.00 S/L
W.L.	11.60 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Darren Amerine
Co. Rep.	Tom Blair
Contr.	Rig 6 Drilling
Rig #	7
Unit #	
Pump T.	

AMPLES:
ENT TO:

Test Successful: Y

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11862

Well Name & No. Stauffer #1 Test No. #2 Date 10/07/1998

Company Range Oil Co. Inc. Zone Tested Arbuckle

Address 125 N. Market Suite 1120 Wichita, KS 67202 Elevation 1119 KB 1114 GL

Co. Rep / Geo. Tom Blair Cont. Big Six drilling #7 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 23 Twp. 23S Rge. 12E Co. Greenwood State Ks

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

Interval Tested 2138 - 2224 Initial Str Wt./Lbs. 21,000 Unseated Str Wt./Lbs. 21,000

Anchor Length 86' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 24,000

Top Packer Depth 2133 Tool Weight 2100

Bottom Packer Depth 2138 Hole Size — 7 7/8" — Rubber Size — 6 3/4" —

Total Depth 2224 Wt. Pipe Run ___ Drill Collar Run 189'

Mud Wt. 9.6 LCM 4# Vis. 43 WL 11.6 Drill Pipe Size 3½ IF Ft. Run 2003'

Blow Description IF: Weak blow, built to 2" in 20.

ISI Bled down for 5 mins No bb.

FF: Dead blow.

FSI: No bb.

Recovery — Total Feet 40' GIP ___ Ft. in DC 40' Ft. in DP N/A

Rec. 40'	Feet Of Drilling Mud	%gas	%oil	%water 100	%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 110° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 900 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	1145		PSI	Recorder No.	10991	T-On Location 20:00:00
(B) First Initial Flow Pressure	71		PSI	(depth)	2146	T-Started 20:30:00
(C) First Final Flow Pressure	81		PSI	Recorder No.	10332	T-Open 00:10:00
(D) Initial Shut-In Pressure	740		PSI	(depth)	2221	T-Pulled 02:10:00
(E) Second Initial Flow Pressure	5		PSI	Recorder No.	___	T-Out 05:00:00
(F) Second Final Flow Pressure	3		PSI	(depth)	___	T-Off Location 06:00:00
(G) Final Shut-in Pressure	750		PSI	Initial Opening	30	Test 600
(Q) Final Hydrostatic Mud	1135		PSI	Initial Shut-in	30	Jars ___
				Final Flow	30	Safety Joint ___
				Final Shut-in	30	Straddle ___
						Circ. Sub ___
						Sampler ___
						Extra Packer ___
						Elec. Rec. ___
						Mileage 340 200 mile area
						Other ___

940

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Approved By ___

10991
DST #5

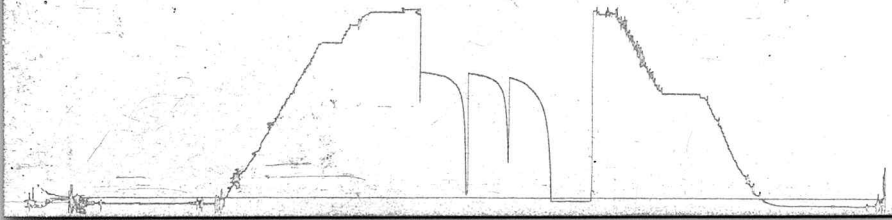
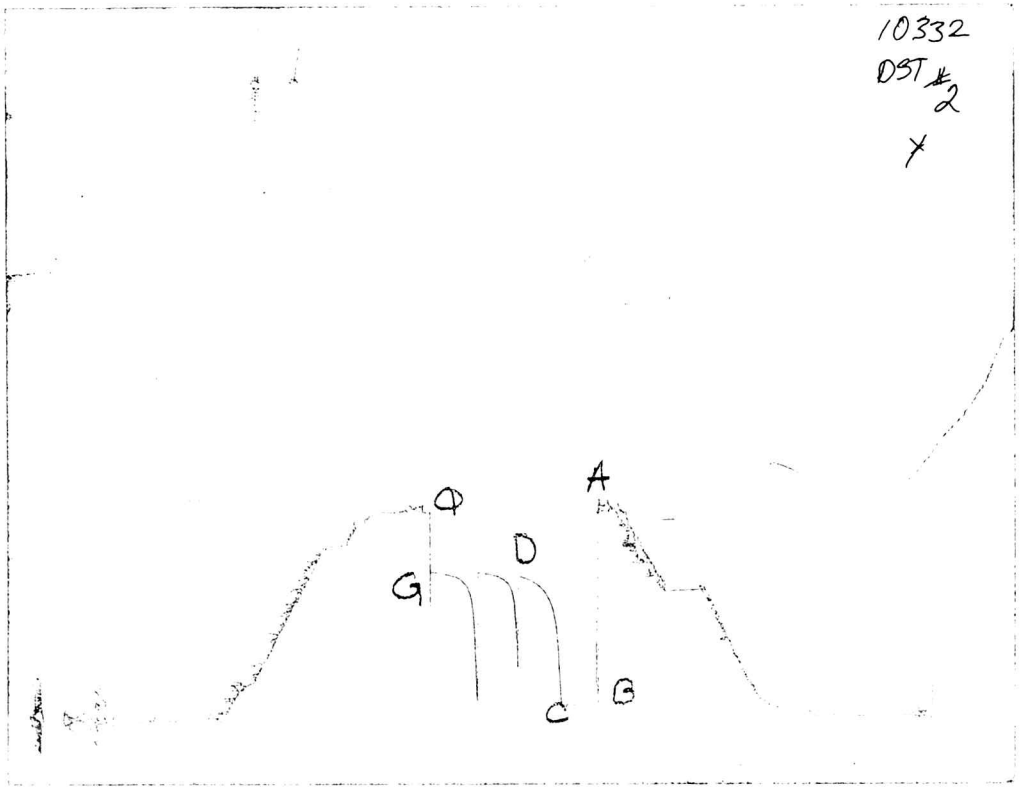
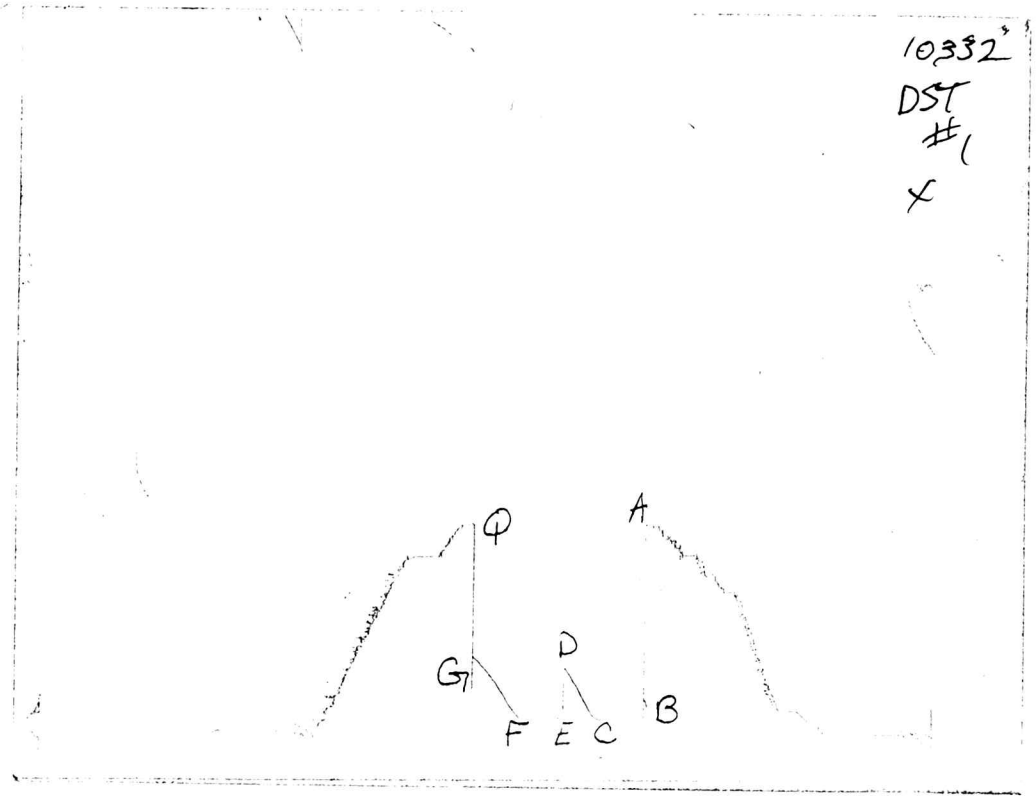


CHART PAGE



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

CHART PAGE



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