

CONFIDENTIAL

ORIGINAL

WELL NAME: Meeker #1  
COMPANY: HRF Exploration  
LOCATION: 27-34s-1E  
Sumner co Kansas  
DATE: 8/24/00

**RELEASED**

**MAY 21 2002**

**FROM CONFIDENTIAL**

**KCC**

**MAY 21 2002**

**CONFIDENTIAL**

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Nº 12885

Well Name & No. Mudren #1 Test No. 1 Date 8-16-2000  
 Company HRE Expl. Zone Tested Dimpson  
 Address P.O. Box 110, Cayford Michigan 49734 Elevation 1195 KB 1185 GL  
 Co. Rep / Geo. Donald Day Cont. Mendenhall Drly Est. Ft. of Pay 6 Por.      %  
 Location: Sec. 27 Twp. 0345 Rge. 1E Co. Sumner State Ka.  
 No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 4096 - 4106' Initial Str Wt./Lbs. 69,000 Unseated Str Wt./Lbs. 65,000  
 Anchor Length 10' Wt. Set Lbs. 18,000 Wt. Pulled Loose/Lbs. 80,000  
 Top Packer Depth 4091' Tool Weight 2100 lb  
 Bottom Packer Depth 4096' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 4106' Wt. Pipe Run None Drill Collar Run 300'  
 Mud Wt. 9.1 LCM 3# Vis. 46 WL 10.0cc Drill Pipe Size 4 1/2" x H. Ft. Run 3776'  
 Blow Description IF: Wash below. Dead in 12 mins.

FF: No. blow.

Recovery — Total Feet 2 GIP      Ft. in DC 2 Ft. in DP       
 Rec. 2 Feet Of Drly Mud %gas %oil %water %mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 BHT 127 °F Gravity N/A °API D@      °F Corrected Gravity N/A °API  
 RW J.C. @      °F Chlorides 3,000 ppm Recovery Chlorides 3,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	1953	1993		2342	0510
(B) First Initial Flow Pressure	12	12		(depth) 4101'	T-Started 0616
(C) First Final Flow Pressure	12	14		10248	T-Open 0925
(D) Initial Shut-In Pressure	39	49		(depth) 4103'	T-Pulled 1145
(E) Second Initial Flow Pressure	14	16		Recorder No. <u>    </u>	T-Out 1425
(F) Second Final Flow Pressure	14	17		(depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure	50	66		Initial Opening <u>15</u>	Test <input checked="" type="checkbox"/> 750
(Q) Final Hydrostatic Mud	1994	1917		Initial Shut-in <u>30</u>	Jars <input checked="" type="checkbox"/> 200

Final Flow 30 Safety Joint  50  
 Final Shut-in 60 Straddle       
4 Circ. Sub       
     Sampler  200

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 Donald Day  
 Our Representative     

Extra Packer       
 Elec. Rec.  150  
 Mileage 120  120  
 Other       
 TOTAL PRICE \$ 1970.00

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : HRF Exploration

DATE 08-16-000

WELL NAME: Meeker #1

KB 1195.00 ft TICKET NO: 12885 DST #1

LOCATION : 27-34s-1e Sumner co KS

GR 1185.00 ft FORMATION: Simpson

INTERVAL : 4096.00 To 4106.00 ft

TD 4106.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10248	10248	2342			PF Fr. 0925 to 0940 hr
SI 30 Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0940 to 1010 hr
SF 30 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1010 to 1040 hr
FS 60 Depth(ft )	4103.0	4103.0	4101.0	0.0	0.0	FS Fr. 1040 to 1140 hr

	Field	1	2	3	4	
A. Init Hydro	1953.0	2002.0	1993.0	0.0	0.0	T STARTED 0616 hr
B. First Flow	12.0	10.0	12.0	0.0	0.0	T ON BOTM 0920 hr
B1. Final Flow	12.0	9.0	14.0	0.0	0.0	T OPEN 0925 hr
C. In Shut-in	39.0	42.0	49.0	0.0	0.0	T PULLED 1145 hr
D. Init Flow	14.0	19.0	16.0	0.0	0.0	T OUT 1425 hr
E. Final Flow	14.0	12.0	17.0	0.0	0.0	
F. Fl Shut-in	50.0	50.0	66.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1894.0	1948.0	1987.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 28000.00 lbs

RECOVERY

Tot Fluid 2.00 ft of 2.00 ft in DC and 0.00 ft in DP  
 2.00 ft of Drilling mud  
 0.00 ft of 100% mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of Rw n.c. ohms @ degrees F.  
 0.00 ft of EST.FT. of PAY-----6

SALINITY 3000.00 P.P.M. A.P.I. Gravity 0.00

RELEASED

MAY 21 2002

FROM CONFIDENTIAL

BLOW DESCRIPTION

Initial Flow:  
Weak blow. Died in 12 minutes.

Initial Shut-In:  
No blow.

Final Flow:  
No blow.

Final Shut-In:  
No blow.

SAMPLES: none  
SENT TO: Caraway/Liberal

Test Successful: Y

MUD DATA-----	
Mud Type	Chemical
Weight	9.10 lb/c
Vis.	46.00 S/L
W.L.	10.00 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	127.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Don Day
Contr.	Mendenhall
Rig #	1
Unit #	
Pump T.	LCM 3 #/bl



# TEST HISTORY

12885 DST#1 MEEKER #1 HRF EXPLORATION

## Flag Points

t (Min.)	P (PSig)
A: 0.00	1993.03
B: 0.00	12.41
C: 25.00	13.84
D: 23.00	49.01
E: 0.00	15.69
F: 30.00	17.20
G: 61.50	66.29
Q: 0.00	1916.65

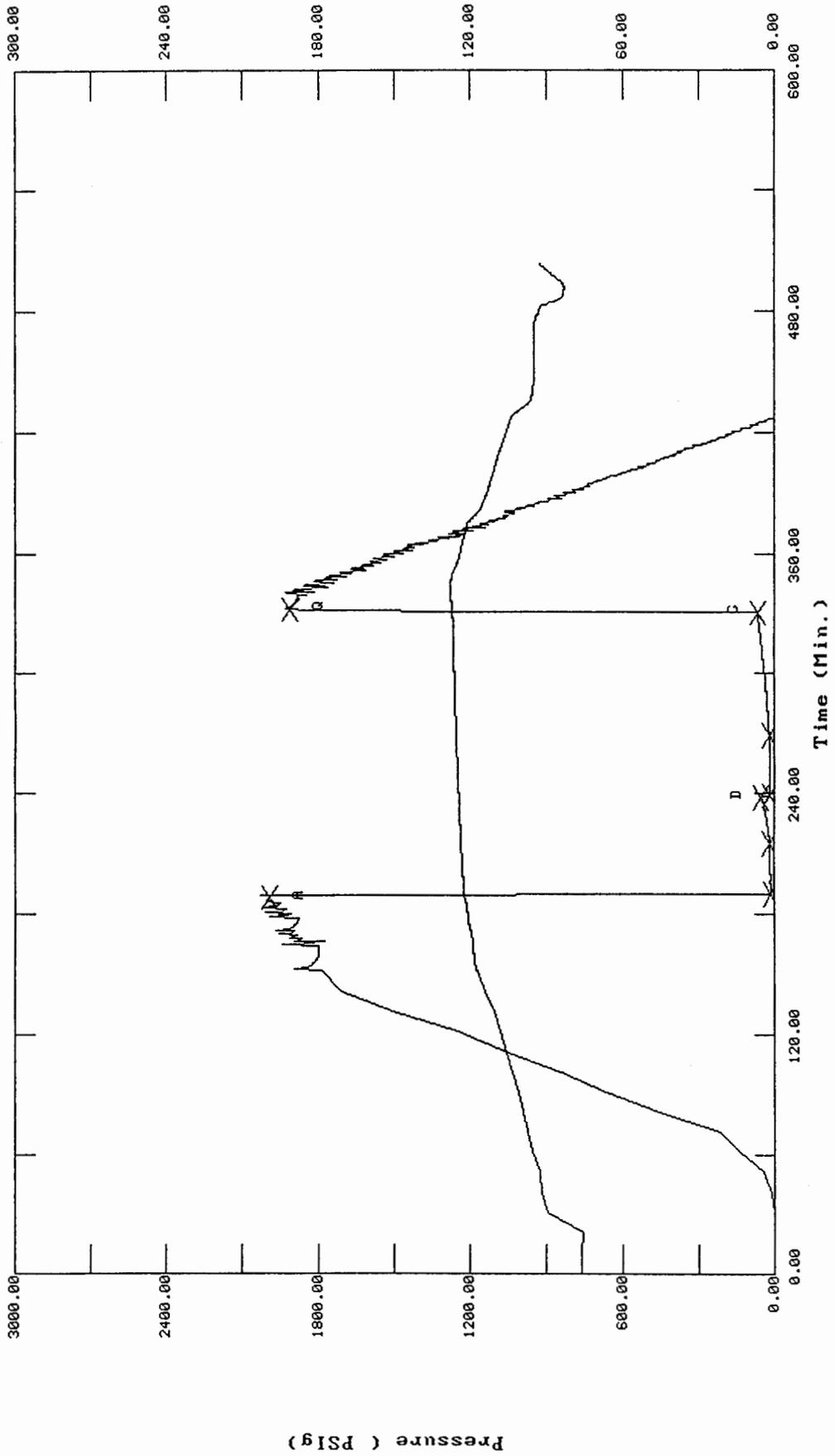
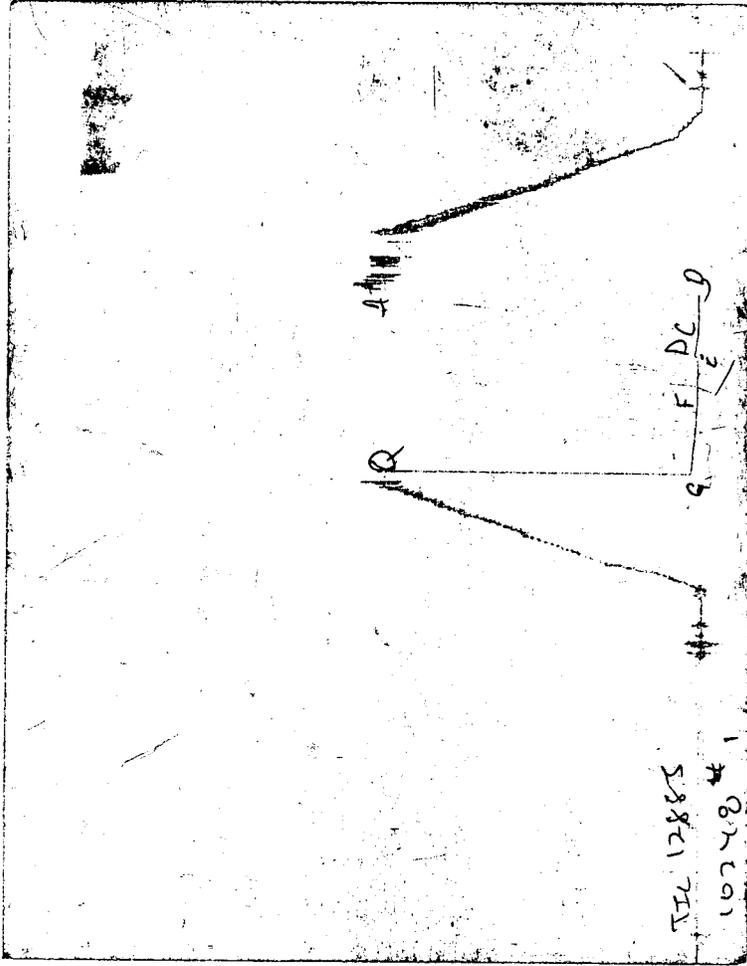


CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 12885 Date 8-16-2000  
Company Name HRE Expl.  
Lease Mucker #1 Test No. 1  
County Sumner Ks. Sec. 27 Twp. 34S Rng. 1E

### SAMPLER RECOVERY

Gas None ML  
Oil None ML  
Mud 4000 ML  
Water None ML  
Other LCM   
Pressure 5 PSI  
Total 4,000 ML

### PIT MUD ANALYSIS

Chlorides 3,000 ppm.  
Resistivity 2.07 ohms @ 82 F  
Viscosity 46  
Mud Weight 9.1  
Filtrate 10.0 cc.  
Other LCM 3#/32

### SAMPLER ANALYSIS

Resistivity N.C. ohms @ ~ F  
Chlorides 3,000 ppm.  
Gravity N/A corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity ~ ohms @ ~ F  
Chlorides ~ ppm.  
MIDDLE  
Resistivity ~ ohms @ ~ F  
Chlorides ~ ppm.  
BOTTOM 2 1/2" Dirty Mud  
Resistivity N.C. ohms @ ~ F  
Chlorides 3,000 ppm.

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 12886

Well Name & No. <u>Mobern #1</u>	Test No. <u>2</u>	Date <u>8-17-2000</u>
Company <u>HRE Expl.</u>	Zone Tested <u>Dimpson</u>	
Address <u>P.O. Box 110 Gaylord Michigan 49734</u>	Elevation <u>1195</u> KB <u>1145</u> GL	
Co. Rep / Geo. <u>Donald Day</u>	Cont. <u>Mendenhall Dr</u>	Est. Ft. of Pay <u>4</u> Por. <u>    </u> %
Location: Sec. <u>27</u> Twp. <u>34S</u> Rge. <u>1E</u> Co. <u>Summer</u> State <u>Ms.</u>		
No. of Copies <u>5</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>    </u>	Evaluation (Y, N) <u>    </u>

Interval Tested <u>4112 - 4134'</u>	Initial Str Wt./Lbs. <u>68,000</u>	Unseated Str Wt./Lbs. <u>68,000</u>
Anchor Length <u>22'</u>	Wt. Set Lbs. <u>28,000</u>	Wt. Pulled Loose/Lbs. <u>40,000</u>
Top Packer Depth <u>4107'</u>	Tool Weight <u>2100<sup>II</sup></u>	
Bottom Packer Depth <u>4112'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4134'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>300'</u>
Mud Wt. <u>9.1</u> LCM <u>4<sup>II</sup></u> Vis. <u>46</u> WL <u>10.0cc</u>	Drill Pipe Size <u>4 1/2" x .4</u>	Ft. Run <u>3806'</u>
Blow Description <u>IF: Weak blow. (1/4")</u>		

FF: Weak blow. Saw increase to 2 1/2".

Recovery — Total Feet <u>170</u>	GIP <u>0</u>	Ft. in DC <u>170</u>	Ft. in DP <u>0</u>
Rec. <u>30</u> Feet Of <u>Mud (w/ oil spec.)</u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u>
Rec. <u>140</u> Feet Of <u>MW</u>	%gas <u>    </u>	%oil <u>80</u>	%water <u>20</u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	%gas <u>    </u>	%oil <u>    </u>	%water <u>    </u>
BHT <u>132</u> °F Gravity <u>N/A</u>	°API D@ <u>    </u>	°F Corrected Gravity <u>N/A</u>	°API <u>    </u>
RW <u>.13</u> @ <u>100</u> °F	Chlorides <u>34,000</u> ppm	Recovery Chlorides <u>3,000</u> ppm	System <u>    </u>

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1921</u>	<u>1985</u>	<u>alp</u>	<u>2342</u>	<u>0220</u>
(B) First Initial Flow Pressure	<u>16</u>	<u>14</u>	PSI	(depth) <u>4117'</u>	T-Started <u>0253</u>
(C) First Final Flow Pressure	<u>25</u>	<u>31</u>	PSI	Recorder No. <u>10248</u>	T-Open <u>0613</u>
(D) Initial Shut-In Pressure	<u>1387</u>	<u>1389</u>	PSI	(depth) <u>4131'</u>	T-Pulled <u>1002</u>
(E) Second Initial Flow Pressure	<u>30</u>	<u>39</u>	PSI	Recorder No. <u>    </u>	T-Out <u>1330</u>
(F) Second Final Flow Pressure	<u>82</u>	<u>82</u>	PSI	(depth) <u>    </u>	T-Off Location <u>1420</u>
(G) Final Shut-in Pressure	<u>1296</u>	<u>1291</u>	PSI	Initial Opening <u>15</u>	Test <input checked="" type="checkbox"/> <u>750</u>
(Q) Final Hydrostatic Mud	<u>1909</u>	<u>1956</u>	PSI	Initial Shut-in <u>30</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
				Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
				Final Shut-in <u>120</u>	Straddle <u>    </u>
				<u>4</u>	Circ. Sub <u>    </u>
					Sampler <input checked="" type="checkbox"/> <u>200</u>
					Extra Packer <u>    </u>
					Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
					Mileage <u>120</u>
					Other <u>60</u>
					TOTAL PRICE \$ <u>1530<sup>00</sup></u>

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Approved By Donald Day  
 Our Representative

TRILOBITE TESTING L.L.C.

OPERATOR : HRF Exploration DATE 08-17-000  
 WELL NAME: Meeker #1 KB 1195.00 ft TICKET NO: 12886 DST #2  
 LOCATION : 27-34s-1e Sumner co KS GR 1185.00 ft FORMATION: Simpson  
 INTERVAL : 4112.00 To 4134.00 ft TD 4134.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10248	10248	2342			PF Fr. 0615 to 0630 hr
SI 30 Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0630 to 0700 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0700 to 0800 hr
FS 120 Depth(ft )	4141.0	4131.0	4117.0	0.0	0.0	FS Fr. 0800 to 1000 hr

	Field	1	2	3	4	
A. Init Hydro	1921.0	1972.0	1985.0	0.0	0.0	T STARTED 0253 hr
B. First Flow	16.0	4.0	14.0	0.0	0.0	T ON BOTM 0610 hr
B1. Final Flow	25.0	15.0	31.0	0.0	0.0	T OPEN 0615 hr
C. In Shut-in	1382.0	1334.0	1389.0	0.0	0.0	T PULLED 1002 hr
D. Init Flow	30.0	36.0	39.0	0.0	0.0	T OUT 1330 hr
E. Final Flow	82.0	61.0	82.0	0.0	0.0	
F. Fl Shut-in	1296.0	1273.0	1291.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1909.0	1963.0	1956.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 68000.00 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 300.00 ft
						D.P. Length 3806.00 ft

RECOVERY

Tot Fluid 170.00 ft of 170.00 ft in DC and 0.00 ft in DP  
 30.00 ft of Drilling mud with oil specs  
 140.00 ft of Muddy water  
 0.00 ft of 80% water 20% mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of Rw .13 ohms @100 degrees F.  
 0.00 ft of EST.FT. of PAY-----4  
 SALINITY 34000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Weak blow. 1/4"

Initial Shut-In:  
 No blow.

Final Flow:  
 Weak blow. Slow increase to 2 1/2".

Final Shut-In:  
 No blow.

SAMPLES: none  
 SENT TO:Caraway/Liberal

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c:
Vis.	46.00 S/L
W.L.	10.00 in3
F.C.	0.20 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	132.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Don Day
Contr.	Mendenhall
Rig #	1
Unit #	
Pump T.	LCM 4 #/bl

Test Successful: Y



# TEST HISTORY

12886 DST#2 MEEKER #1 HRF EXPLORATION

## Flag Points

t (Min.) P (PSig)

A: 0.00 1984.55  
 B: 0.00 13.67  
 C: 15.00 30.63  
 D: 32.50 1388.58  
 E: 0.00 38.77  
 F: 58.50 82.07  
 G: 121.00 1290.80  
 Q: 0.00 1956.43

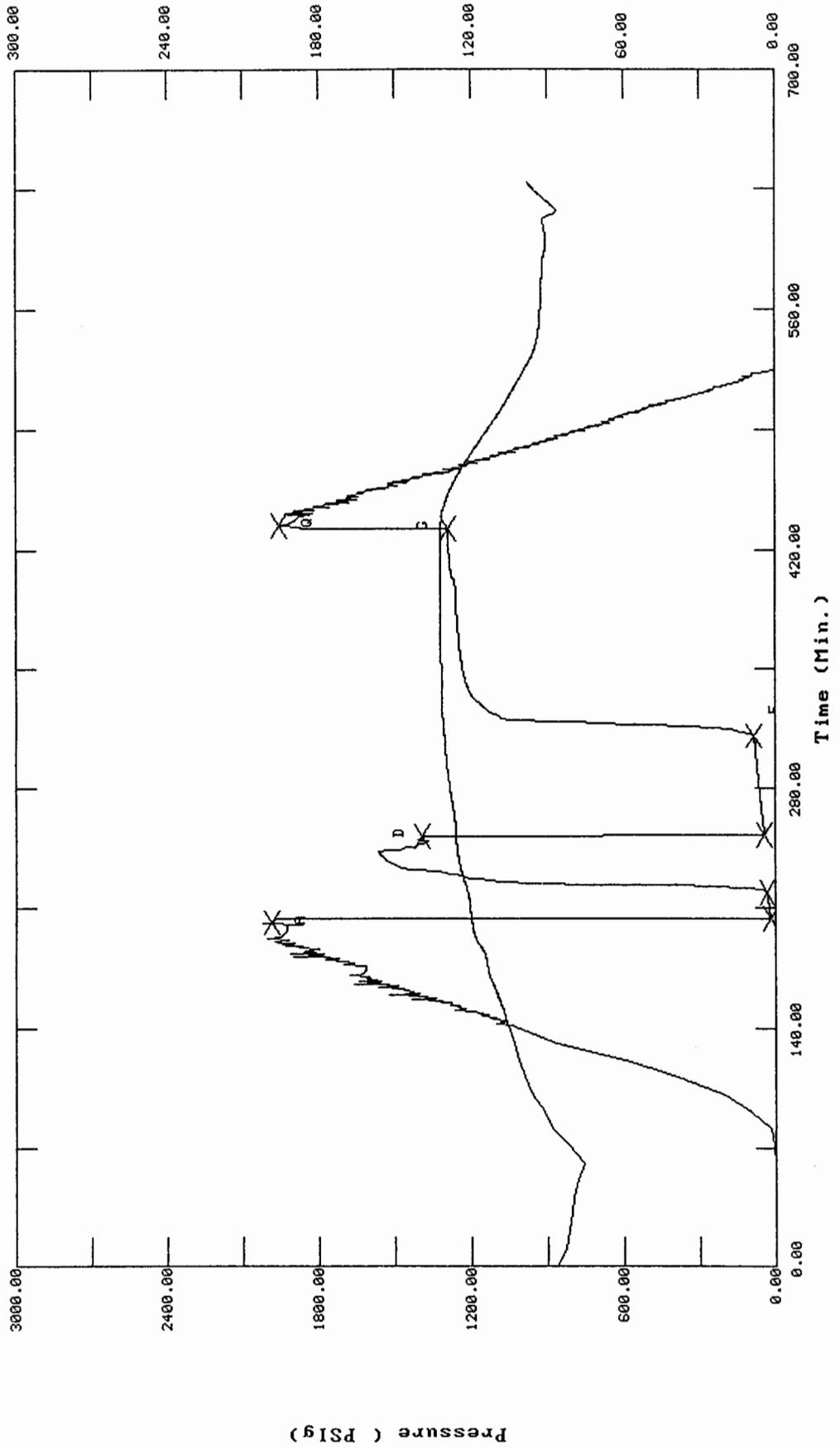
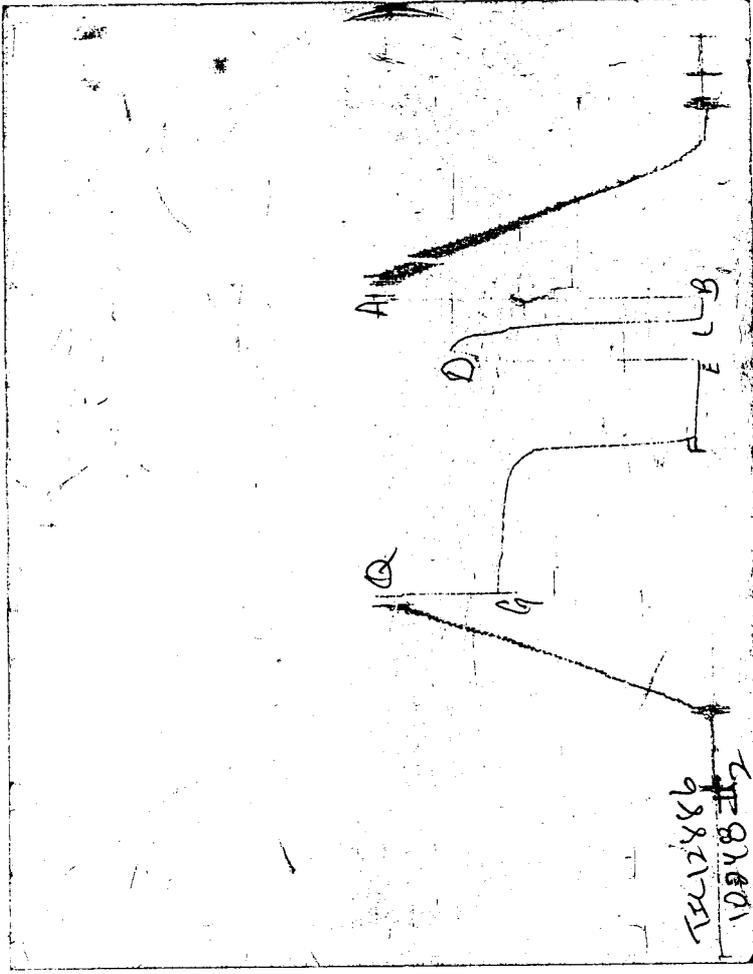


CHART PAGE



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# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 1288C Date 8-17-2000  
Company Name HRF Expl.  
Lease Meeker #1 Test No. 2  
County Sumner Co. Sec. 27 Twp. 34<sup>S</sup> Rng. 1<sup>E</sup>

### SAMPLER RECOVERY

Gas Trace ML  
Oil ~~None~~ None ML  
Mud ~~3,900~~ 0 ML  
Water 3,900 ML  
Other ~ ML  
Pressure 60 PSI  
Total 3,900 ML

### PIT MUD ANALYSIS

Chlorides 3,000 ppm.  
Resistivity 2.02 ohms @ 74 F  
Viscosity 46  
Mud Weight 9.1  
Filtrate 10.0 cc.  
Other LCM 4#/3L

### SAMPLER ANALYSIS

Resistivity .13 ohms @ 100 F  
Chlorides 34,000 ppm.  
Gravity N/A corrected @ 60 F

### PIPE RECOVERY

TOP 30' 12.4g. Mud. @ oil spec  
Resistivity N.C. ohms @ ~ F  
Chlorides N.C. ppm.

MIDDLE  
Resistivity ~ ohms @ ~ F  
Chlorides ~ ppm.

BOTTOM 140 M.W.  
Resistivity .13 ohms @ 100 F  
Chlorides 34,000 ppm.