TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCHMEIDLER #8-20 Test No. 1 Date 8/16/93

Company WAYNE E. WALCHER Zone LKC

Address 701 BITTING BLDG WICHITA KS 67202 Elevation 2153 KB

Co. Rep./Geo. JERRY HONAS Cont. ABERCROMBIE DRLG RIG #4 Est. Ft. of Pay

Location: Sec. 20 Twp. 12S Rge. 17W Co. ELLIS State KS

Interval Tested 3467-3510

Anchor Length 43

Top Packer Depth 3462

Bottom Packer Depth 3467

Total Depth 3510

Drill Pipe Size 4.5" XH

Wt. Pipe I.D. - 2.7 Ft. Run 632

Drill Collar – 2.25 Ft. Run 293

Mud Wt. 9 lb/Gal.

Viscosity 49 Filtrate 9.6

Tool Open @ 11:45 PM Initial Blow WEAK SURFACE BLOW

Final Blow VERY WEAK BLOW

Recovery - Total Feet 30

Flush Tool? NO

Rec. 30 Feet of DRILLING MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 108 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 1715.6 PSI AK1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 33.5 PSI @ (depth) 3475 w / Clock No. 27501

(C) First Final Flow Pressure 33.5 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 888.7 PSI @ (depth) 3507 w / Clock No. 8376

(E) Second Initial Flow Pressure 33.5 PSI AK1 Recorder No. Range

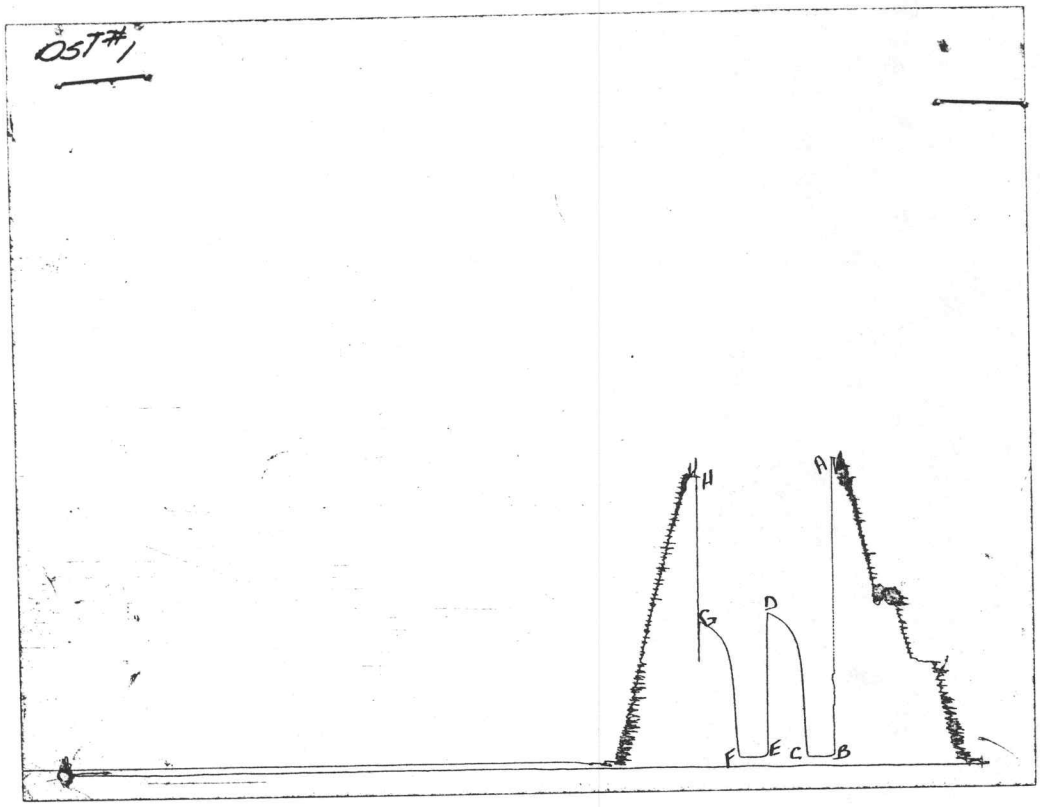
(F) Second Final Flow Pressure 33.5 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 796.5 PSI Initial Opening 20 Final Flow 20

(H) Final Hydrostatic Mud 1637.8 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PETE WAGGONER

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1706	1715.6
(B) FIRST INITIAL FLOW PRESSURE	29	33.5
(C) FIRST FINAL FLOW PRESSURE	29	33.5
(D) INITIAL CLOSED-IN PRESSURE	882	888.7
(E) SECOND INITIAL FLOW PRESSURE	29	33.5
(F) SECOND FINAL FLOW PRESSURE	29	33.5
(G) FINAL CLOSED-IN PRESSURE	788	796.5
(H) FINAL HYDROSTATIC MUD	1636	1637.8