27 - 16 - 21W

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Computer Inventoried

Drill-Stem Test Data

Well Name HINMAN #1 Test No. 1 Date 9/13/91
Company CARMEN SCHMITT INC Zone Tested CHEROKEE
Address P.O. BOX 47 GREAT BEND KS 67530 Elevation 2286
Co. Rep./Geo. MR RICH O'DONNEL Cont. DUKE DRLG RIG #4 Est. Ft. of Pay
Location: Sec. 27 Twp. 16S Rge. 21W Co. NESS State KS

Interval Tested 4152-4162
Anchor Length 10
Top Packer Depth 4147
Bottom Packer Depth 4152
Total Depth 4162

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run 193
Drill Collar — 2.25 Ft. Run 121

Mud Wt. 9.2 lb / gal. Viscosity 48 Filtrate 12.4

Tool Open @ 11:12 PM Initial Blow STRONG-OFF BOTTOM OF BUCKET IN 90 SECONDS

Final Blow

Recovery — Total Feet 810 Flush Tool? NO

Rec. 30 Feet of STLY OIL CUT MUD-10%OIL/90%MUD

Rec. 660 Feet of GASSY OIL SPECKLED WATER

Rec. 120 Feet of SAND

Rec. Feet of

Rec. Feet of

BHT N/A °F Gravity °API @ °F Corrected Gravity °API

RW 0.24 @ 72 °F Chlorides 28000 ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud 2088.7 PSI AK1 Recorder No. 13277 Range 4125

(B) First Initial Flow Pressure 171.3 PSI @ (depth) 4153 w/Clock No. 17639

(C) First Final Flow Pressure 394.5 PSI AK1 Recorder No. 24174 Range 3350

(D) Initial Shut-In Pressure PSI @ (depth 4161 w/Clock No. 30401

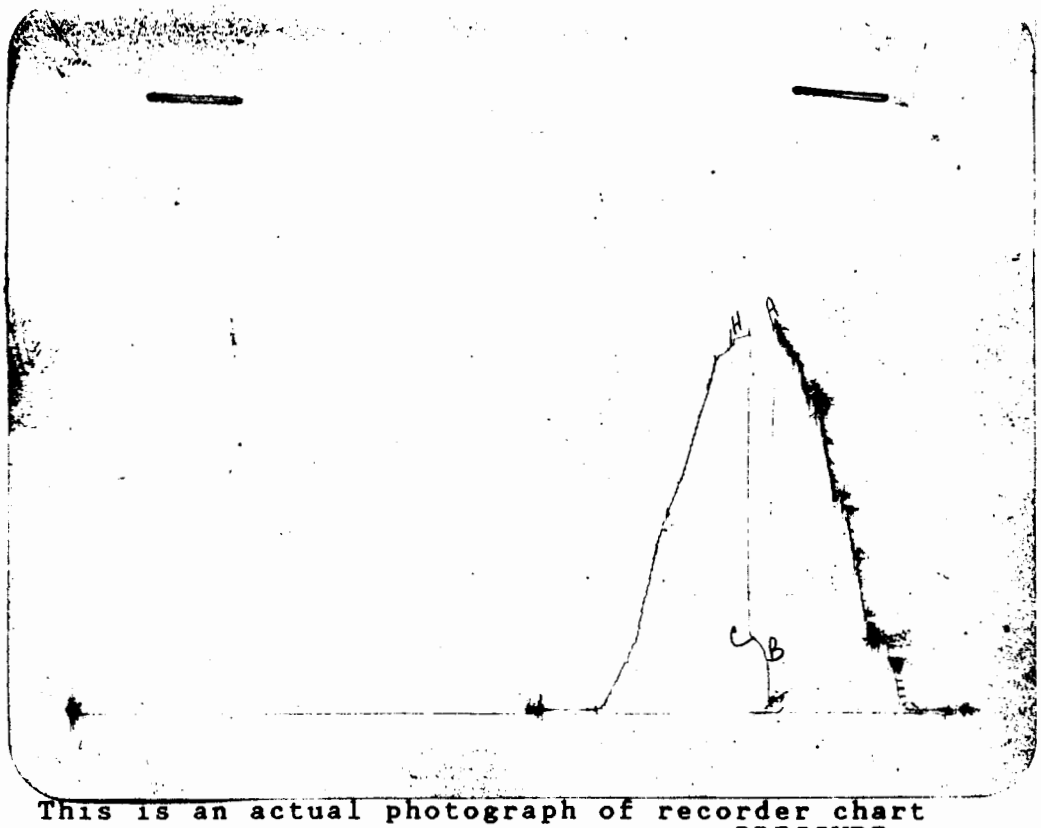
(E) Second Initial Flow Pressure PSI AK1 Recorder No. Range

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

(G) Final Shut-In Pressure PSI Initial Opening 15 Final Flow

(H) Final Hydrostatic Mud 2060.8 PSI Initial Shut-In Final Shut-In

Our Representativve PAUL SIMPSON TOTAL PRICE $ 800



This is an actual photograph of recorder chart

POINT	PRESSURE	
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2082	2088.7
(B) FIRST INITIAL FLOW PRESSURE	165	171.3
(C) FIRST FINAL FLOW PRESSURE	388	394.5
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2057	2060.8