TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCHMEIDLER #7-20 Test No. 1 Date 7/6/91
Company WAYNE E. WALCHER Zone Tested KS CITY
Address 701 BITTING BLDG WICHITA KS 67202 Elevation 2151 KB
Co. Rep./Geo. GERALD HONAS Cont. ABERCROMBIE #4 Est. Ft. of Pay
Location: Sec. 20 Twp. 12S Rge. 17W Co. ELLIS State KS

Interval Tested 3430-3500
Anchor Length 70
Top Packer Depth 3425
Bottom Packer Depth 3430
Total Depth 3500

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run 414
Drill Collar — 2.25 Ft. Run

Mud Wt. 9 lb / gal. Viscosity 44 Filtrate 10

Tool Open @ 5:48 PM Initial Blow WEAK-DIED IN 15 MINUTES

Final Blow NO BLOW

Recovery — Total Feet 10 Flush Tool? NO

Rec. 10 Feet of MUD WITH FEW OIL SPOTS

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 107 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud 1735.6 PSI Ak1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 81.2 PSI @ (depth) 3434 w/Clock No. 26199

(C) First Final Flow Pressure 81.2 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 223.3 PSI @ (depth 3496 w/Clock No. 26191

(E) Second Initial Flow Pressure 81.2 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 81.2 PSI @ (depth) w/Clock No.

(G) Final Shut-in Pressure 148.9 PSI Initial Opening 20 Final Flow 20

(H) Final Hydrostatic Mud 1700.3 PSI Initial Shut-in 30 Final Shut-in 30

Our Representativve DAN BANGLE TOTAL PRICE $ 550

This is an actual photograph of recorder chart

POINT	PRESSURE FIELD READING	PRESSURE OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1721	1735.6
(B) FIRST INITIAL FLOW PRESSURE	77	81.2
(C) FIRST FINAL FLOW PRESSURE	77	81.2
(D) INITIAL CLOSED-IN PRESSURE	211	223.3
(E) SECOND INITIAL FLOW PRESSURE	77	81.2
(F) SECOND FINAL FLOW PRESSURE	77	81.2
(G) FINAL CLOSED-IN PRESSURE	133	148.9
(H) FINAL HYDROSTATIC MUD	1667	1700.3

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Drill-Stem Test Data

Well Name SCHMEIDLER #7-20 Test No. 2 Date 7/7/91

Company WAYNE E. WALCHER Zone Tested LWR KS CITY

Address 701 BITTING BLDG WICHITA KS 67202 Elevation 2151 KB

Co. Rep./Geo. GERALD HONAS Cont. ABERCROMBIE #4 Est. Ft. of Pay

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

Interval Tested 3556-3636 Drill Pipe Size 4.5 XH

Anchor Length 80 Wt. Pipe I.D. - 2.7 Ft. Run 382

Top Packer Depth 3551 Drill Collar — 2.25 Ft. Run

Bottom Packer Depth 3556

Total Depth 3636

Mud Wt. 9.1 lb / gal. Viscosity 44 Filtrate 10.8

Tool Open @ 12:37 PM Initial Blow WEAK-DIED IN 10 MINUTES

Final Blow NO BLOW

Recovery — Total Feet 10 Flush Tool? NO

Rec. 10 Feet of DRILLING MUD W/ OIL SPOTS

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 110 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1822.4 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 93.6 PSI @ (depth) 3560 w/Clock No. 26199

(C) First Final Flow Pressure 93.6 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 564.2 PSI @ (depth 3632 w/Clock No. 26191

(E) Second Initial Flow Pressure 93.6 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 93.6 PSI @ (depth) w/Clock No.

(G) Final Shut-in Pressure 174.5 PSI Initial Opening 20 Final Flow 20

(H) Final Hydrostatic Mud 1764.8 PSI Initial Shut-in 30 Final Shut-in 30

Our Representativve DAN BANGLE TOTAL PRICE $ 550

This is an actual photograph of recorder chart

POINT	PRESSURE FIELD READING	PRESSURE OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1819	1822.4
(B) FIRST INITIAL FLOW PRESSURE	88	93.6
(C) FIRST FINAL FLOW PRESSURE	88	93.6
(D) INITIAL CLOSED-IN PRESSURE	544	564.2
(E) SECOND INITIAL FLOW PRESSURE	88	93.6
(F) SECOND FINAL FLOW PRESSURE	88	93.6
(G) FINAL CLOSED-IN PRESSURE	166	174.5
(H) FINAL HYDROSTATIC MUD	1765	1764.8

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCHMEIDLER #7-20 Test No. 3 Date 7/8/91
Company WAYNE E. WALCHER Zone Tested ARBUCKLE
Address 701 BITTING BLDG WICHITA KS 67202 Elevation 2151 KB
Co. Rep./Geo. GERALD HONAS Cont. ABERCROMBIE #4 Est. Ft. of Pay
Location: Sec. 20 Twp. 12S Rge. 17W Co. ELLIS State KS

Interval Tested 3647-3690 Drill Pipe Size 4.5 XH
Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run 414
Top Packer Depth 3642 Drill Collar — 2.25 Ft. Run
Bottom Packer Depth 3647
Total Depth 3690

Mud Wt. 9.1 lb / gal. Viscosity 44 Filtrate 10.8

Tool Open @ 12:55 AM Initial Blow WEAK - BUILDING TO 10" STRONG BLOW

Final Blow WEAK-BUILDING TO 7" BLOW

Recovery — Total Feet 402 Flush Tool? NO

Rec. 216 Feet of GAS IN PIPE

Rec. 278 Feet of CLEAN OIL

Rec. 124 Feet of OIL CUT MUD-40%OIL/60%MUD

Rec. Feet of

Rec. Feet of

BHT 116 °F Gravity °API @ °F Corrected Gravity 26 °API

RW @ °F Chlorides ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1916.5 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 71.3 PSI @ (depth) 3651 w/Clock No. 26199

(C) First Final Flow Pressure 105.8 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 804.5 PSI @ (depth 3686 w/Clock No. 26191

(E) Second Initial Flow Pressure 157.9 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 178.9 PSI @ (depth) w/Clock No.

(G) Final Shut-in Pressure 784.3 PSI Initial Opening 45 Final Flow 45

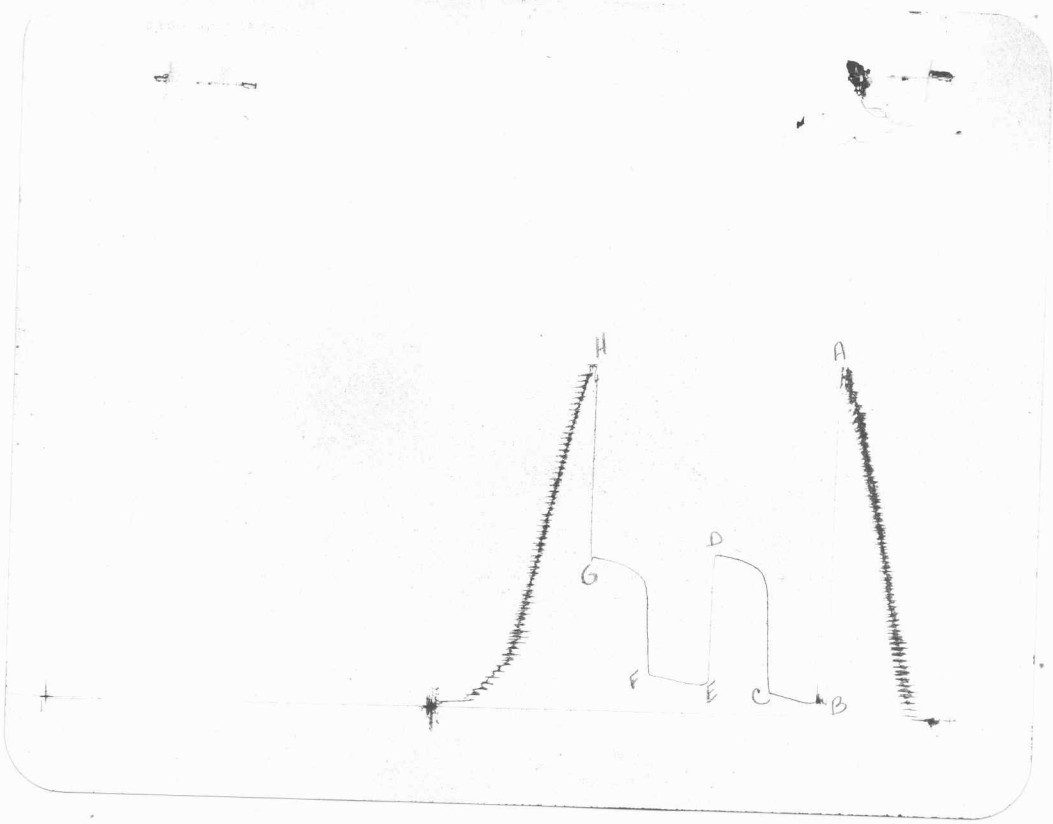
(H) Final Hydrostatic Mud 1770.5 PSI Initial Shut-in 45 Final Shut-in 45

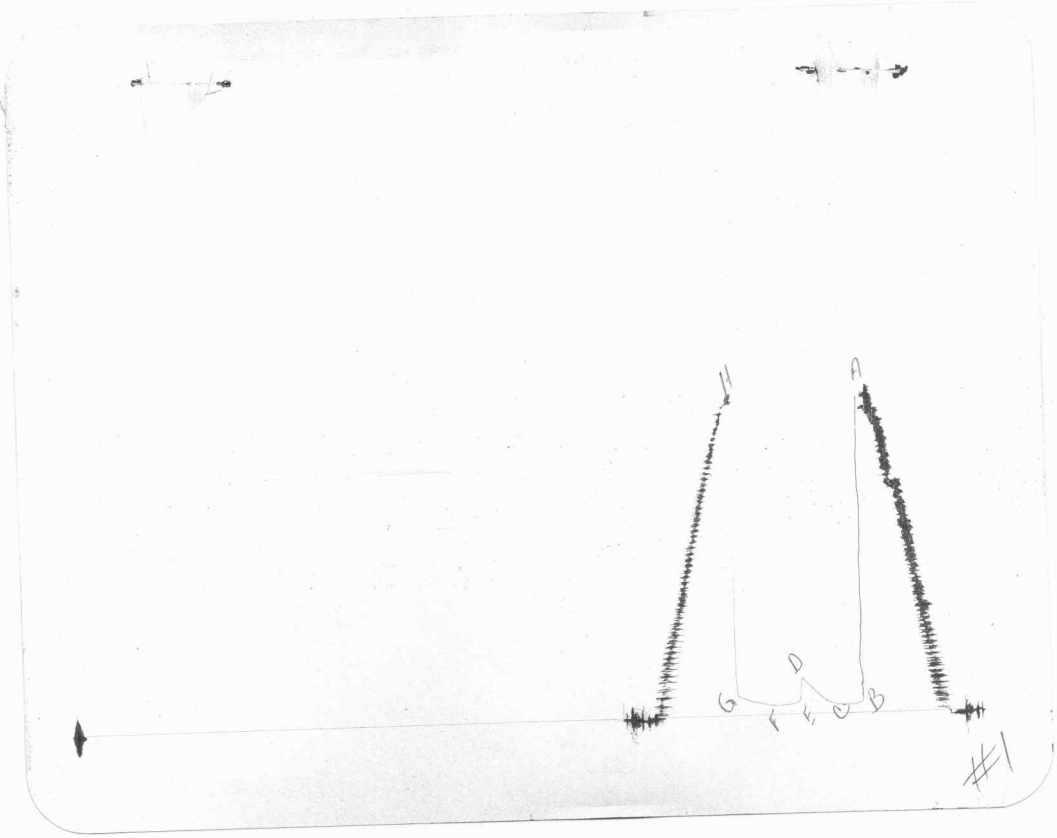
Our Representativve DAN BANGLE TOTAL PRICE $ 550

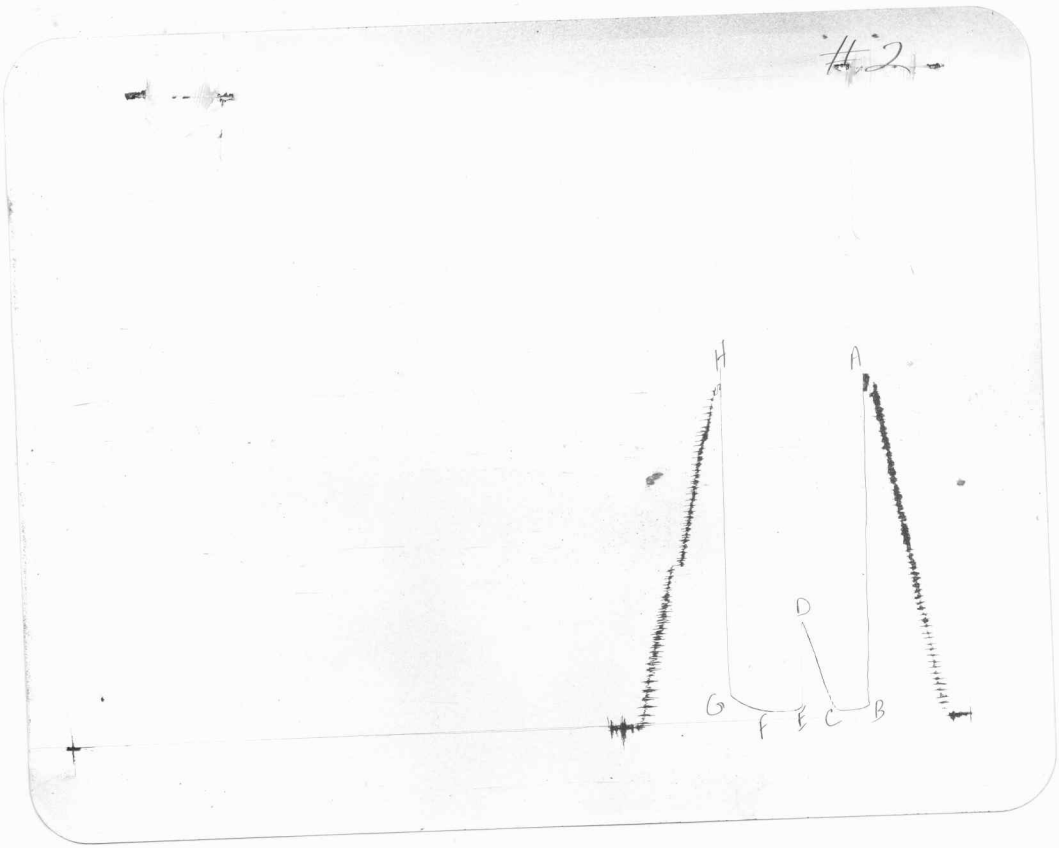
Printcraft Printers - Hays, KS

This is an actual photograph of recorder chart

POINT	PRESSURE FIELD READING	PRESSURE OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1906	1916.5
(B) FIRST INITIAL FLOW PRESSURE	66	71.3
(C) FIRST FINAL FLOW PRESSURE	100	105.8
(D) INITIAL CLOSED-IN PRESSURE	797	804.5
(E) SECOND INITIAL FLOW PRESSURE	144	157.9
(F) SECOND FINAL FLOW PRESSURE	166	178.9
(G) FINAL CLOSED-IN PRESSURE	775	784.3
(H) FINAL HYDROSTATIC MUD	1776	1770.5


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