

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HABERMAN #5 Test No. 1 Date 4/19/91
Company J.A. ALLISON Zone Tested LANS-KS CITY
Address 300 W DOUGLAS WICHITA KS 67202 Elevation 1989 KB
Co. Rep./Geo. MR ORLIN PHELPS Cont. WOODMAN/IANNITTI Est. Ft. of Pay 4
Location: Sec. 24 Twp. 18S Rge. 18W Co. RUSH State KS

Interval Tested 3375-3395
Anchor Length 20
Top Packer Depth 3370
Bottom Packer Depth 3375
Total Depth 3395

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run 382
Drill Collar - 2.25 Ft. Run

Mud Wt. 8.8 lb / gal. Viscosity 40 Filtrate 11.6

Tool Open @ 8:20 Initial Blow STRONG-OFF BOTTOM OF BUCKET AS SOON AS TOOL WAS OPENED
Final Blow STRONG-OFF BOTTOM OF BUCKET IN 20 SECONDS

Recovery — Total Feet 210 Flush Tool? NO

Rec. 90 Feet of GASSY MUD

Rec. 120 Feet of MUDDY WATER

Rec. Feet of

Rec. Feet of

Rec. Feet of °F Gravity °API @ °F Corrected Gravity °API
BHT 115

RW 0.46 @ 66.6 °F Chlorides 18000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 1668.1 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 212.5 PSI @ (depth) 3379 w/Clock No. 26199

(C) First Final Flow Pressure 181.4 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-In Pressure 1210.6 PSI @ (depth) 3391 w/Clock No. 26191

(E) Second Initial Flow Pressure 187.4 PSI AK1 Recorder No. Range

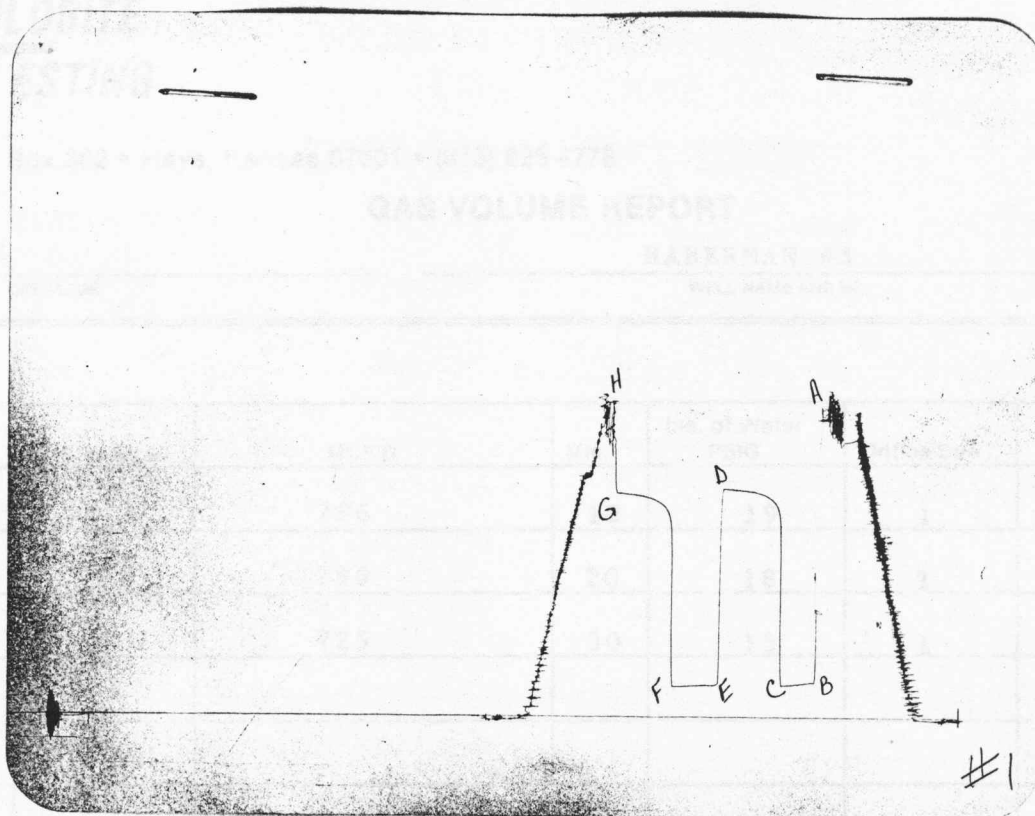
(F) Second Final Flow Pressure 180.3 PSI @ (depth) w/Clock No.

(G) Final Shut-In Pressure 1159.8 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1610.2 PSI Initial Shut-In 45 Final Shut-In 45

Our Representative MR DAN BANGLE

TOTAL PRICE \$ 550



POINT

This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1667	1668.1
(B) FIRST INITIAL FLOW PRESSURE	211	212.5
(C) FIRST FINAL FLOW PRESSURE	177	181.4
(D) INITIAL CLOSED-IN PRESSURE	1205	1210.6
(E) SECOND INITIAL FLOW PRESSURE	188	187.4
(F) SECOND FINAL FLOW PRESSURE	177	180.3
(G) FINAL CLOSED-IN PRESSURE	1161	1159.8
(H) FINAL HYDROSTATIC MUD	1613	1610.2

GAS TO SURFACE IN 8 MINUTES-TRIED TO LIGHT
BUT WOULD ONLY STAY LIT WHEN THERE WAS A FLAME



GAS VOLUME REPORT

HABERMAN #5

1

WELL NAME AND NO.

DST NO.

Remarks:

101 BOND

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HABERMAN #5 Test No. 2 Date 4/21/91
Company J. A. ALLISON Zone Tested CONGLOMERATE
Address 300 W DOUGLAS WICHITA KS 67202 Elevation 1989 KB
Co. Rep./Geo. MR ORLIN PHELPS Cont. WOODMAN/IANNITTI Est. Ft. of Pay 4
Location: Sec. 24 Twp. 18S Rge. 18W Co. RUSH State KS

Interval Tested 3693-3739
Anchor Length 46
Top Packer Depth 3688
Bottom Packer Depth 3693
Total Depth 3739

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run 382
Drill Collar - 2.25 Ft. Run

Mud Wt. 9.2 lb / gal. Viscosity 40 Filtrate 12.4

Tool Open @ 3:50 AM Initial Blow WEAK-DIED IN 8 MINUTES

Final Blow NO BLOW

Recovery — Total Feet 5 Flush Tool? NO

Rec. 5 Feet of SLTLYT OIL CUT MUD-15%OIL/85%MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 112 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1944.5 PSI Ak1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 41.2 PSI @ (depth) 3697 w/Clock No. 26199

(C) First Final Flow Pressure 41.2 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-In Pressure 70.6 PSI @ (depth) 3734 w/Clock No. 26191

(E) Second Initial Flow Pressure 41.2 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 41.2 PSI @ (depth) w/Clock No.

(G) Final Shut-In Pressure 50.3 PSI Initial Opening 30 Final Flow 30

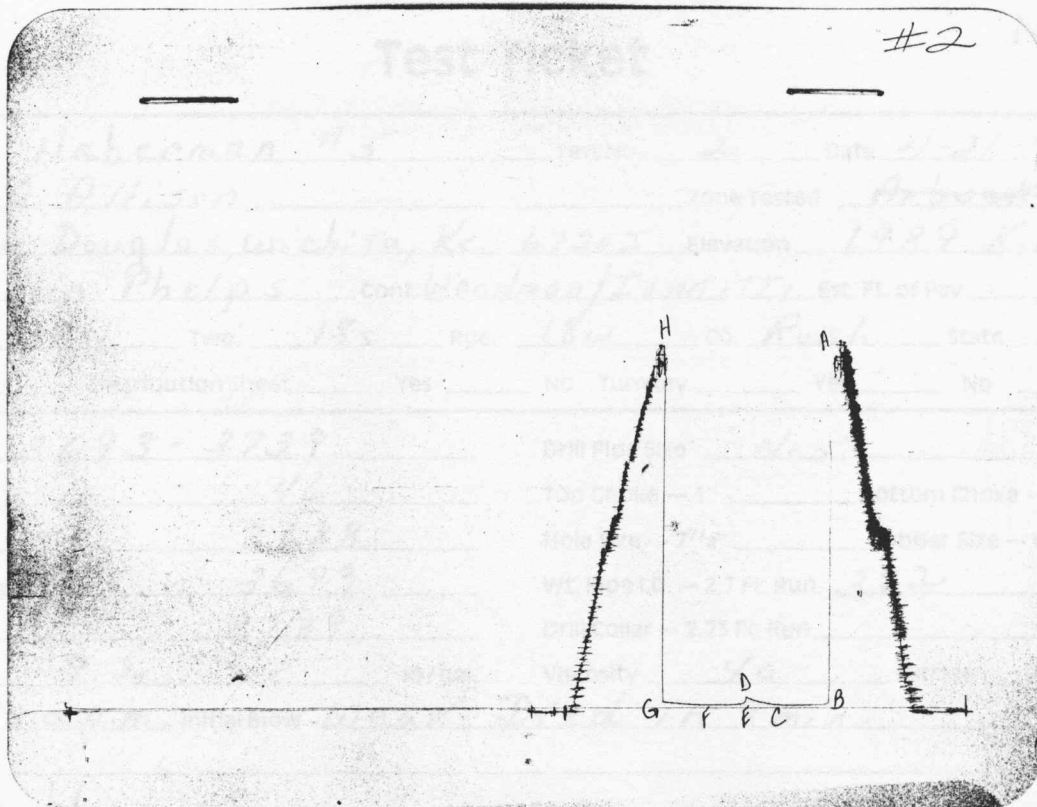
(H) Final Hydrostatic Mud 1849.8 PSI Initial Shut-In 30 Final Shut-In 30

Our Representative MR DAN BANGLE

TOTAL PRICE \$ 550

TRILOBITE TESTING COMPANY

P.O. BOX 302 • Hays, Kansas 67501



This is an actual photograph of recorder chart
POINT PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1939	1944.5
(B) FIRST INITIAL FLOW PRESSURE	33	41.2
(C) FIRST FINAL FLOW PRESSURE	33	41.2
(D) INITIAL CLOSED-IN PRESSURE	66	70.6
(E) SECOND INITIAL FLOW PRESSURE	33	41.2
(F) SECOND FINAL FLOW PRESSURE	33	41.2
(G) FINAL CLOSED-IN PRESSURE	44	50.3
(H) FINAL HYDROSTATIC MUD	1852	1849.8

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APPROVED BY

OUR REPRESENTATIVE

TRILOBITE TESTING COMPANY

Flow Rate

Flow Rate

Flow Rate

Flow Rate

Flow Rate

Flow Rate

Flow Rate

TRILOBITE TESTING COMPANY

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Drill-Stem Test Data

Well Name HABERMAN #5 Test No. 3 Date 4/21/91
Company J.A. ALLISON Zone Tested CONGLOMERATE
Address 300 W DOUGLAS WICHITA KS 67202 Elevation 1989 KB
Co. Rep./Geo. MR ORLIN PHELPS Cont. WOODMAN/IANNITTI Est. Ft. of Pay _____
Location: Sec. 24 Twp. 18S Rge. 18W Co. RUSH State KS

Interval Tested 3693-3744
Anchor Length 51
Top Packer Depth 3688
Bottom Packer Depth 3693
Total Depth 3744

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run 382
Drill Collar - 2.25 Ft. Run _____

Mud Wt. 9.3 lb / gal. Viscosity 48 Filtrate 12.8

Tool Open @ 2:13 PM Initial Blow WEAK-DIED IN 15 MINUTES

Final Blow NO BLOW

Recovery — Total Feet 15 Flush Tool? NO

Rec. 15 Feet of SLTLYT OIL CUT MUD-10%OIL/80%MUD

Rec. _____ Feet of FREE OIL IN TOP TOOL

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 112 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chloride 5000 ppm System

(A) Initial Hydrostatic Mud 1977.2 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 81.2 PSI @ (depth) 3697 w/Clock No. 26199

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

(D) Initial Shut-In Pressure 114.6 PSI @ (depth) 3740 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 90.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1934.5 PSI Initial Shut-In 30 Final Shut-In 30

Our Representative MR DAN BANGLE

TOTAL PRICE \$ 550

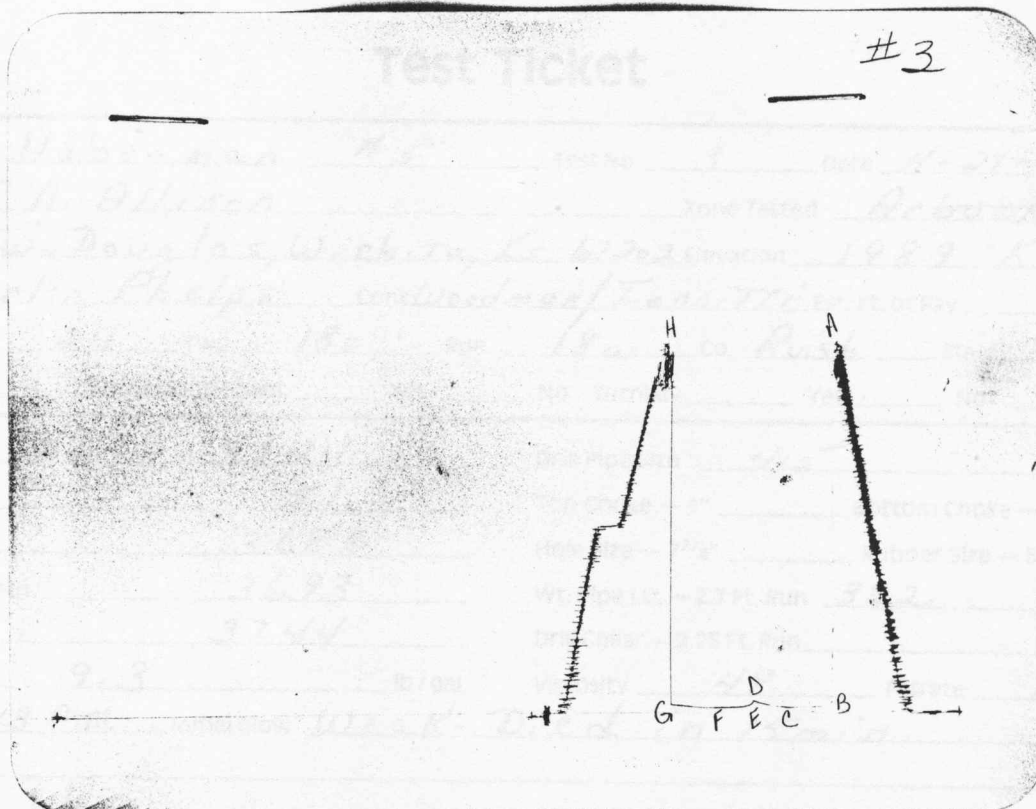
TRILOBITE TESTING COMPANY

P.O. BOX 382 • Hays, Kansas 67501

Test Ticket

#3

3733



POINT

This is an actual photograph of recorder chart
PRESSURE

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	1971	1977.2
(B) FIRST INITIAL FLOW PRESSURE	77	81.2
(C) FIRST FINAL FLOW PRESSURE	77	81.2
(D) INITIAL CLOSED-IN PRESSURE	111	114.6
(E) SECOND INITIAL FLOW PRESSURE	77	81.2
(F) SECOND FINAL FLOW PRESSURE	77	81.2
(G) FINAL CLOSED-IN PRESSURE	88	90.6
(H) FINAL HYDROSTATIC MUD	1928	1934.5

APPROVED BY

John R. Pheasant

TOTAL PRICE \$