TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HOBBS #1 Test No. 1 Date 5/16/92

Company ABERCROMBIE DRILLING COMPANY Zone LKC "B"

Address 150 N. MAIN #801 WICHITA KS 67202 Elevation 2442

Co. Rep./Geo. KEN DEAN Cont. CO TOOLS Est. Ft. of Pay

Location: Sec. 31 Twp. 10S Rge. 24W Co. GRAHAM State KS

Interval Tested 3812-3831

Anchor Length 19

Top Packer Depth 3807

Bottom Packer Depth 3812

Total Depth 3831

Drill Pipe Size 4.5 XH

Wt. Pipe I.D. - 2.7 Ft. Run 600

Drill Collar – 2.25 Ft. Run

Mud Wt. 8.8 lb/Gal.

Viscosity 43 Filtrate 10

Tool Open @ 8:10 PM Initial Blow NO BLOW

Final Blow NO BLOW

Recovery - Total Feet 2 Flush Tool? YES

Rec. 2 Feet of MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 101 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 1894.8 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 16.5 PSI @ (depth) 3816 w / Clock No. 17640

(C) First Final Flow Pressure 16.5 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 320.8 PSI @ (depth) 3831 w / Clock No. 19960

(E) Second Initial Flow Pressure 16.4 PSI AK1 Recorder No. Range

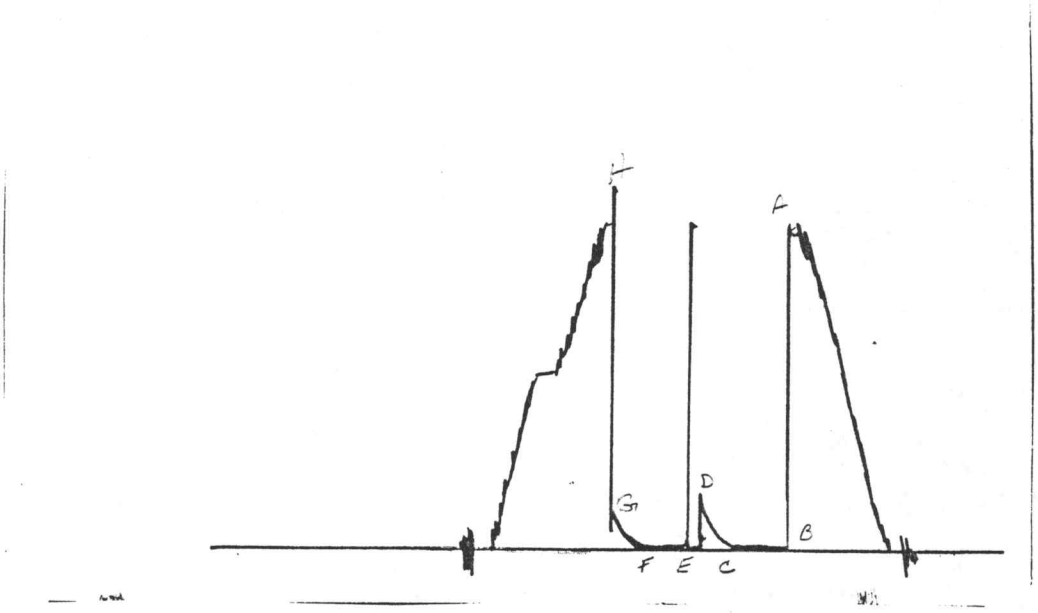
(F) Second Final Flow Pressure 23.9 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 227.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1886.4 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative HARRY SCHMIDT

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1891	1894.8
(B) FIRST INITIAL FLOW PRESSURE	10	16.5
(C) FIRST FINAL FLOW PRESSURE	10	16.5
(D) INITIAL CLOSED-IN PRESSURE	316	320.8
(E) SECOND INITIAL FLOW PRESSURE	10	16.4
(F) SECOND FINAL FLOW PRESSURE	20	23.9
(G) FINAL CLOSED-IN PRESSURE	222	227.4
(H) FINAL HYDROSTATIC MUD	1880	1886.4

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Test Ticket

№ 4904

Well Name & No. HOBBS #1 Test No. ONE Date 5-16-92

Company ABERCROMBIE DRLG. CO. Zone Tested LKC-B

Address 150 N. MAIN SUITE 801 WICHITA KS 67202 Elevation 2442 KB

Co. Rep./Geo. KEN DEAN Cont. CO TOOLS Est. Ft. of Pay

Location: Sec. 31 Twp. 10S Rge. 24W Co. GRAHAM State KS

No. of Copies 5 Distribution Sheet Yes (NO) Turnkey Yes (NO) Evaluation

Interval Tested 3812 TO 3831 Drill Pipe Size 4½" XH

Anchor Length 19' Top Choke — 1" Bottom Choke — ¾"

Top Packer Depth 3807 Hole Size — 7⅞" Rubber Size — 6¾"

Bottom Packer Depth 3812 Wt. Pipe I.D. — 2.7 Ft. Run 600

Total Depth 3831 Drill Collar — 2.25 Ft. Run

Mud Wt. 8.8 lb/gal. Viscosity 43 Filtrate 10.0

Tool Open @ 8:10 P Initial Blow NO BLOW

Final Blow NO BLOW

Recovery — Total Feet 2 Feet of Gas in Pipe Flush Tool? YES

Rec. 2 Feet Of MUD	%gas	%oil	%water	%mud
Rec. Feet Of	%gas	%oil	%water	%mud
Rec. Feet Of	%gas	%oil	%water	%mud
Rec. Feet Of	%gas	%oil	%water	%mud
Rec. Feet Of	%gas	%oil	%water	%mud

BHT 101 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud 1891 PSI	AK1 Recorder No. 22150	Range 3925
(B) First Initial Flow Pressure 10 PSI	@ (depth) 3816	w/Clock No. 17640
(C) First Final Flow Pressure 10 PSI	AK1 Recorder No. 10248	Range 4400
(D) Initial Shut-In Pressure 316 PSI	@ (depth) 3831	w/Clock No. 19960
(E) Second Initial Flow Pressure 10 PSI	AK1 Recorder No.	Range
(F) Second Final Flow Pressure 20 PSI	@ (depth)	w/Clock No.
(G) Final Shut-In Pressure 222 PSI	Initial Opening 30	Test 550 OV
(H) Final Hydrostatic Mud 1880 PSI	Initial Shut-In 30	Jars
	Final Flow 30	Safety Joint
	Final Shut-In 30	Straddle
		Circ. Sub
		Sampler
		Extra Packer
		Other

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 Kenneth Dean

Our Representative Thomas Schmidt

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name HOBBS #1 Test No. 2 Date 5/17/92

Company ABERCROMBIE DRILLING COMPANY Zone LKC "C"

Address 150 N. MAIN #801 WICHITA KS 67202 Elevation 2442

Co. Rep./Geo. KEN DEAN Cont. CO TOOLS Est. Ft. of Pay

Location: Sec. 31 Twp. 10S Rge. 24W Co. GRAHAM State KS

Interval Tested 3831-3858 Drill Pipe Size 4.5 XH

Anchor Length 27 Wt. Pipe I.D. - 2.7 Ft. Run 600

Top Packer Depth 3826 Drill Collar – 2.25 Ft. Run

Bottom Packer Depth 3831 Mud Wt. 8.8 lb/Gal.

Total Depth 3858 Viscosity 43 Filtrate 10

Tool Open @ 8:20 AM Initial Blow NO BLOW

Final Blow NO BLOW

Recovery - Total Feet 2 Flush Tool? YES

Rec. 2 Feet of MUD

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 101 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 1910.2 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 16.8 PSI @ (depth) 3840 w / Clock No. 17640

(C) First Final Flow Pressure 16.8 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 45.1 PSI @ (depth) 3858 w / Clock No. 19960

(E) Second Initial Flow Pressure 16.7 PSI AK1 Recorder No. Range

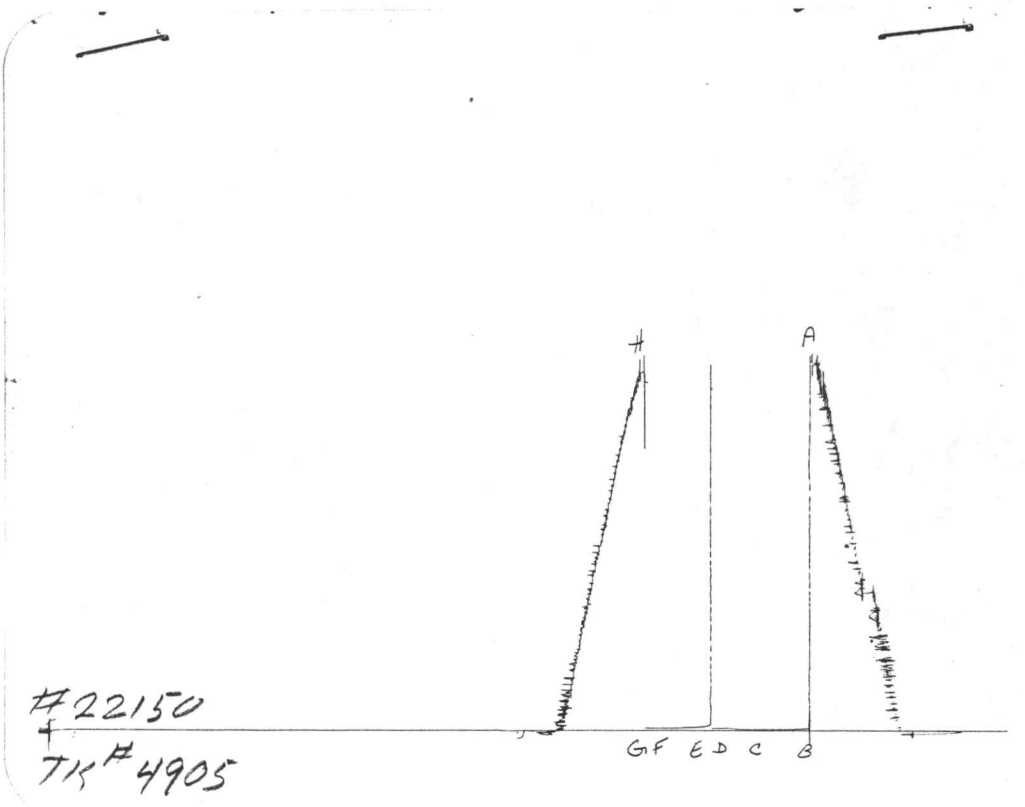
(F) Second Final Flow Pressure 28.4 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 36.5 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1897.4 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative HARRY SCHMIDT

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1900	1910.2
(B) FIRST INITIAL FLOW PRESSURE	10	16.8
(C) FIRST FINAL FLOW PRESSURE	10	16.8
(D) INITIAL CLOSED-IN PRESSURE	40	45.1
(E) SECOND INITIAL FLOW PRESSURE	10	16.7
(F) SECOND FINAL FLOW PRESSURE	20	28.4
(G) FINAL CLOSED-IN PRESSURE	30	36.5
(H) FINAL HYDROSTATIC MUD	1890	1897.4

TRILOBITE TESTING L.L.C.

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Test Ticket

№ 4905

Well Name & No. HOBBS #1 Test No. TWO Date 5-17-92

Company ABERCROMBIE DRLG. CO. Zone Tested L/KC - C

Address 150 N. MAIN SUITE 801 WICHITA KS. 67202 Elevation 2442 KB

Co. Rep./Geo. KLEN DEAN Cont. CO. TOOL'S Est. Ft. of Pay

Location: Sec. 31 Twp. 10S Rge. 24W Co. GRAHAM State KS

No. of Copies 5 Distribution Sheet ____ Yes ____ (No) Turnkey ____ Yes ____ (No) ____ Evaluation

Interval Tested 3831 TO 3858 Drill Pipe Size 4 1/2" XH

Anchor Length 27' Top Choke — 1" ____ Bottom Choke — ¾" ____

Top Packer Depth 3826 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Bottom Packer Depth 3831 Wt. Pipe I.D. — 2.7 Ft. Run 600

Total Depth 3858 Drill Collar — 2.25 Ft. Run —

Mud Wt. 8.8 lb / gal. Viscosity 43 Filtrate 10.0

Tool Open @ 8:20 AM Initial Blow NO BLOW

Final Blow NO BLOW

Recovery — Total Feet 2 Feet of Gas in Pipe ____ Flush Tool? YES

Rec. 2	Feet Of MUD	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud

BHT 101 °F Gravity ____ °API @ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 1,500 ppm System

(A) Initial Hydrostatic Mud	1900 PSI	AK1 Recorder No.	22150	Range	3925
(B) First Initial Flow Pressure	10 PSI	@ (depth)	3840	w/Clock No.	____
(C) First Final Flow Pressure	10 PSI	AK1 Recorder No.	10248	Range	4400
(D) Initial Shut-In Pressure	40 PSI	@ (depth)	3858	w/Clock No.	____
(E) Second Initial Flow Pressure	10 PSI	AK1 Recorder No.	____	Range	____
(F) Second Final Flow Pressure	20 PSI	@ (depth)	____	w/Clock No.	____
(G) Final Shut-In Pressure	30 PSI	Initial Opening	30	Test	550.00
(H) Final Hydrostatic Mud	1890 PSI	Initial Shut-In	30	Jars	____
		Final Flow	30	Safety Joint	____
		Final Shut-In	30	Straddle	____
				Circ. Sub	____
				Sampler	____
				Extra Packer	____
				Other	____

Approved By Kenneth Dean

Our Representative