

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name C.W. BAILEY #1 Test No. 1 Date 6/1/93
Company RITCHIE EXPLORATION, INC. Zone LKC C-D
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2643
Co. Rep./Geo. KITT NOAH Cont. MURFIN RIG # 8 Est. Ft. of Pay _____
Location: Sec. 1 Twp. 3S Rge. 27W Co. DECATUR State KS

Interval Tested	<u>3596-3634</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>38</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>3591</u>	Drill Collar - 2.25 Ft. Run	<u>30</u>
Bottom Packer Depth	<u>3596</u>	Mud Wt.	<u>9.1</u> lb/Gal.
Total Depth	<u>3634</u>	Viscosity	<u>43</u>
		Filtrate	<u>10</u>

Tool Open @ 6:05 AM Initial Blow WEAK TO FAIR BLOW (1-4 1/2" IN WATER)

Final Blow WEAK TO FAIR BLOW (1-4 1/2" IN WATER)

Recovery - Total Feet 122 Flush Tool? NO

Rec. <u>62</u>	Feet of	<u>WATERY MUD WITH OIL SPECKS 38%WATER/62%MUD</u>
Rec. <u>60</u>	Feet of	<u>MUDDY WATER 67%WATER/33%MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.2 @ 75 °F Chlorides 40000 ppm Recovery Chlorides 1400 ppm System

(A) Initial Hydrostatic Mud 1776.4 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 29.5 PSI @ (depth) 3631 w / Clock No. 22993

(C) First Final Flow Pressure 49.8 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1072.1 PSI @ (depth) 3626 w / Clock No. 30410

(E) Second Initial Flow Pressure 42.6 PSI AK1 Recorder No. _____ Range _____

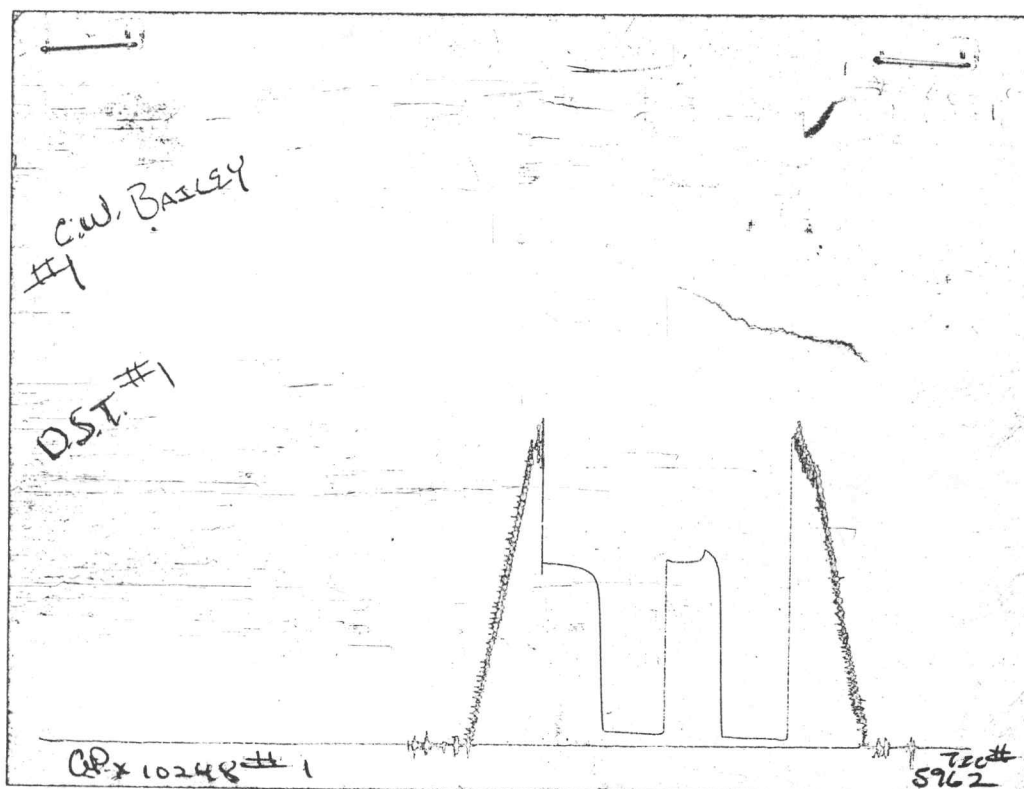
(F) Second Final Flow Pressure 94.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1046.1 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1734.5 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1780	1776.4
(B) FIRST INITIAL FLOW PRESSURE	32	29.5
(C) FIRST FINAL FLOW PRESSURE	41	49.8
(D) INITIAL CLOSED-IN PRESSURE	1080	1072.1
(E) SECOND INITIAL FLOW PRESSURE	50	42.6
(F) SECOND FINAL FLOW PRESSURE	80	94.5
(G) FINAL CLOSED-IN PRESSURE	1056	1046.1
(H) FINAL HYDROSTATIC MUD	1723	1734.5

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name C.W. BAILEY #1 Test No. 2 Date 6/2/93
Company RITCHIE EXPLORATION, INC. Zone LKC "H"
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2643
Co. Rep./Geo. KITT NOAH Cont. MURFIN RIG # 8 Est. Ft. of Pay _____
Location: Sec. 1 Twp. 3S Rge. 27W Co. DECATUR State KS

Interval Tested	<u>3675-3705</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>30</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>3670</u>	Drill Collar - 2.25 Ft. Run	<u>30</u>
Bottom Packer Depth	<u>3675</u>	Mud Wt.	<u>9.4</u> lb/Gal.
Total Depth	<u>3705</u>	Viscosity	<u>44</u>
		Filtrate	<u>8.2</u>

Tool Open @ 1:05 AM Initial Blow VERY WEAK BLOW (1/4-1/2") DEAD IN 20 MINUTES

Final Blow NO BLOW FLUSHED TOOL 5-6 MINUTES INTO SECOND OPEN
(NO HELP)

Recovery - Total Feet 10 Flush Tool? YES

Rec. <u>10</u>	Feet of <u>DRILLING MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides 1000 ppm Recovery Chlorides 1600 ppm System

(A) Initial Hydrostatic Mud 1825.1 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 39.5 PSI @ (depth) 3702 w / Clock No. 22993

(C) First Final Flow Pressure 34.5 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 46.5 PSI @ (depth) 3697 w / Clock No. 30410

(E) Second Initial Flow Pressure 21.6 PSI AK1 Recorder No. _____ Range _____

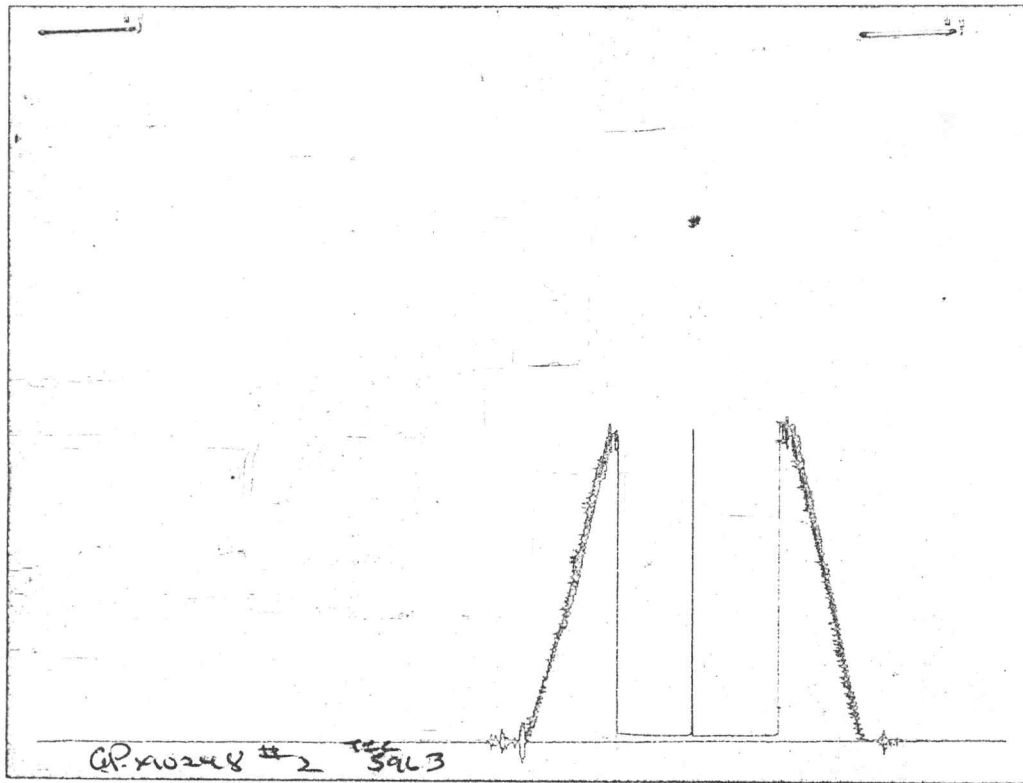
(F) Second Final Flow Pressure 26.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 49.5 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1795.1 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1832	1825.1
(B) FIRST INITIAL FLOW PRESSURE	27	39.5
(C) FIRST FINAL FLOW PRESSURE	27	34.5
(D) INITIAL CLOSED-IN PRESSURE	30	46.5
(E) SECOND INITIAL FLOW PRESSURE	27	21.6
(F) SECOND FINAL FLOW PRESSURE	30	26.1
(G) FINAL CLOSED-IN PRESSURE	35	49.5
(H) FINAL HYDROSTATIC MUD	1788	1795.1

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name C.W. BAILEY #1 Test No. 3 Date 6/2/93
Company RITCHIE EXPLORATION, INC. Zone LANS J-L
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2643
Co. Rep./Geo. KITT NOAH Cont. MURFIN RIG # 8 Est. Ft. of Pay _____
Location: Sec. 1 Twp. 3S Rge. 27W Co. DECATUR State KS

Interval Tested	<u>3704-3800</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>96</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>30</u>
Top Packer Depth	<u>3699</u>	Drill Collar - 2.25 Ft. Run	<u>9.4</u>
Bottom Packer Depth	<u>3704</u>	Mud Wt.	<u>42</u> lb/Gal.
Total Depth	<u>3800</u>	Viscosity	<u>8.2</u> Filtrate

Tool Open @ 5:51 PM Initial Blow FAIR TO STRONG BLOW (BOTTOM OF BUCKET IN 33 MINUTES)

Final Blow FAIR TO STRONG BLOW (BOTTOM OF BUCKET IN 33 MINUTES)

Recovery - Total Feet 450 Flush Tool? NO

Rec. <u>75</u>	Feet of	<u>HEAVY MUD</u>
Rec. <u>60</u>	Feet of	<u>WATERY MUD 27%WATER/73%MUD</u>
Rec. <u>315</u>	Feet of	<u>MUDDY WATER 90%WATER/10%MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 113 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.19 @ 67 °F Chlorides 58000 ppm Recovery Chlorides 1450 ppm System

(A) Initial Hydrostatic Mud 1854.6 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 79.4 PSI @ (depth) 3797 w / Clock No. 22993

(C) First Final Flow Pressure 154.2 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1112.4 PSI @ (depth) 3792 w / Clock No. 30410

(E) Second Initial Flow Pressure 164.2 PSI AK1 Recorder No. _____ Range _____

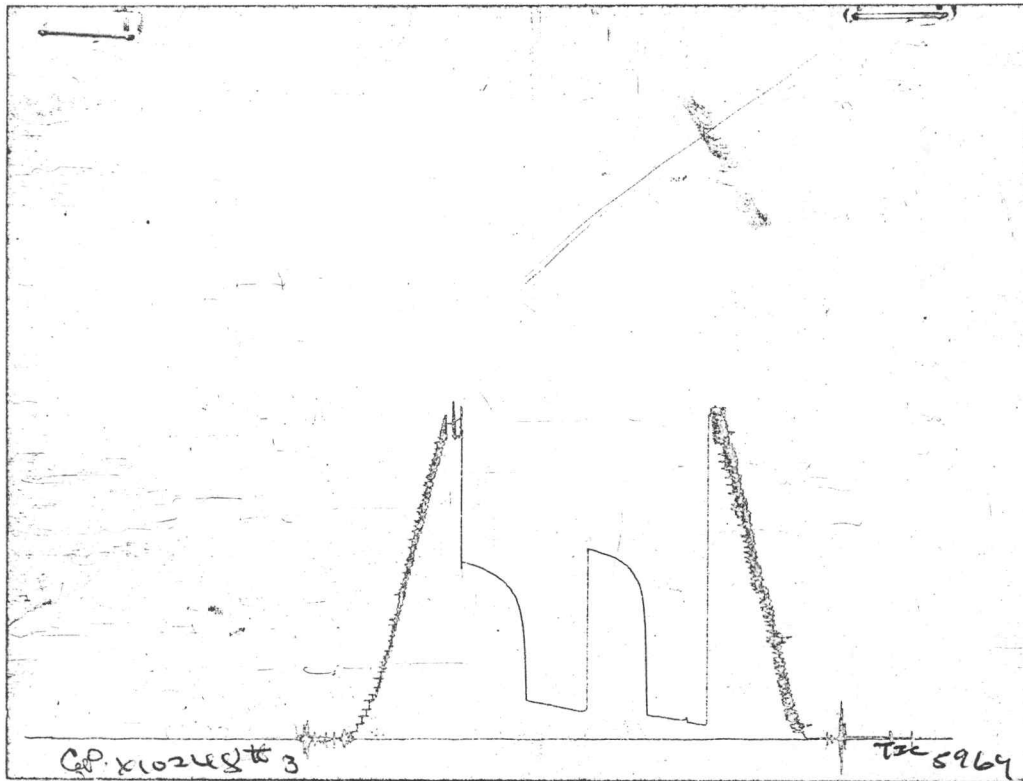
(F) Second Final Flow Pressure 225.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1024.5 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1845.1 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1867	1854.6
(B) FIRST INITIAL FLOW PRESSURE	68	79.4
(C) FIRST FINAL FLOW PRESSURE	141	154.2
(D) INITIAL CLOSED-IN PRESSURE	1102	1112.4
(E) SECOND INITIAL FLOW PRESSURE	150	164.2
(F) SECOND FINAL FLOW PRESSURE	216	225.1
(G) FINAL CLOSED-IN PRESSURE	1030	1024.5
(H) FINAL HYDROSTATIC MUD	1830	1845.1