

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name #1 HIX FARMS Test No. 1 Date 6/11/93  
Company RITCHIE EXPLORATION, INC. Zone TOP-IKC  
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2608  
Co. Rep./Geo. KEVIN KESSLER Cont. MURFIN RIG # 8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 3S Rge. 26W Co. DECATUR State KS

Interval Tested 3485-3549 Drill Pipe Size 4.5" XH  
Anchor Length 64 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3480 Drill Collar - 2.25 Ft. Run 29  
Bottom Packer Depth 3485 Mud Wt. 9 lb/Gal.  
Total Depth 3549 Viscosity 42 Filtrate 12

Tool Open @ 8:55 AM Initial Blow WEAK BUILDING TO 3/4"

Final Blow WEAK STEADY SURFACE BLOW

Recovery - Total Feet 80 Flush Tool? NO

Rec. 80 Feet of MUD WITH SHOW OF OIL ON TOP  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 108 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud 1759.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 52.9 PSI @ (depth) 3489 w / Clock No. 27501

(C) First Final Flow Pressure 63.7 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1067.6 PSI @ (depth) 3545 w / Clock No. 27567

(E) Second Initial Flow Pressure 78.8 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

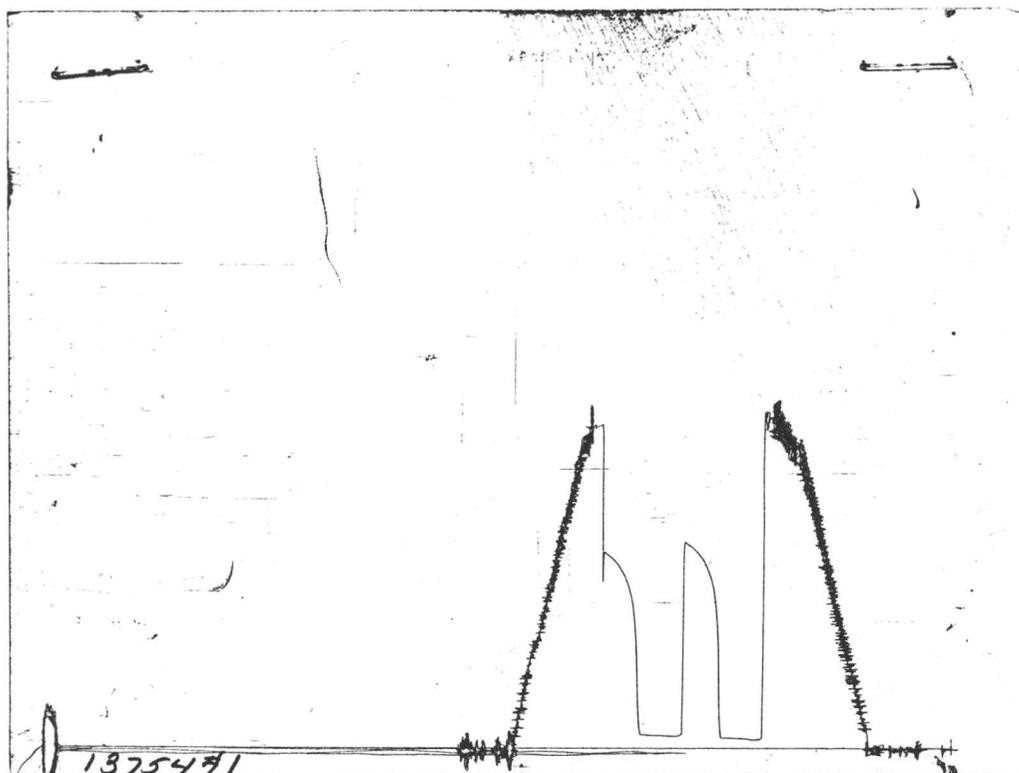
(F) Second Final Flow Pressure 84.6 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1012.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1698.6 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1746	1759.6
(B) FIRST INITIAL FLOW PRESSURE	49	52.9
(C) FIRST FINAL FLOW PRESSURE	59	63.7
(D) INITIAL CLOSED-IN PRESSURE	1066	1067.6
(E) SECOND INITIAL FLOW PRESSURE	68	78.8
(F) SECOND FINAL FLOW PRESSURE	78	84.6
(G) FINAL CLOSED-IN PRESSURE	1006	1012.6
(H) FINAL HYDROSTATIC MUD	1686	1698.6

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## Drill-Stem Test Data

Well Name #1 HIX FARMS Test No. 2 Date 6/11/93  
Company RITCHIE EXPLORATION, INC. Zone LKC  
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2608  
Co. Rep./Geo. KEVIN KESSLER Cont. MURFIN RIG # 8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 3S Rge. 26W Co. DECATUR State KS

Interval Tested 3548-3585 Drill Pipe Size 4.5" XH  
Anchor Length 37 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3543 Drill Collar - 2.25 Ft. Run 29  
Bottom Packer Depth 3548 Mud Wt. 9.2 lb/Gal.  
Total Depth 3585 Viscosity 47 Filtrate 10

Tool Open @ 10:10 PM Initial Blow WEAK-BUILDING TO 7" FAIR BLOW

Final Blow WEAK-BUILDING TO 1"

Recovery - Total Feet 200 Flush Tool? NO

Rec. 200 Feet of WATER  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 110 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.103 @ 80.1 °F Chlorides 80000 ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 1798.5 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 56.4 PSI @ (depth) 3552 w / Clock No. 27501

(C) First Final Flow Pressure 78.9 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1002.3 PSI @ (depth) 3581 w / Clock No. 27567

(E) Second Initial Flow Pressure 87.4 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

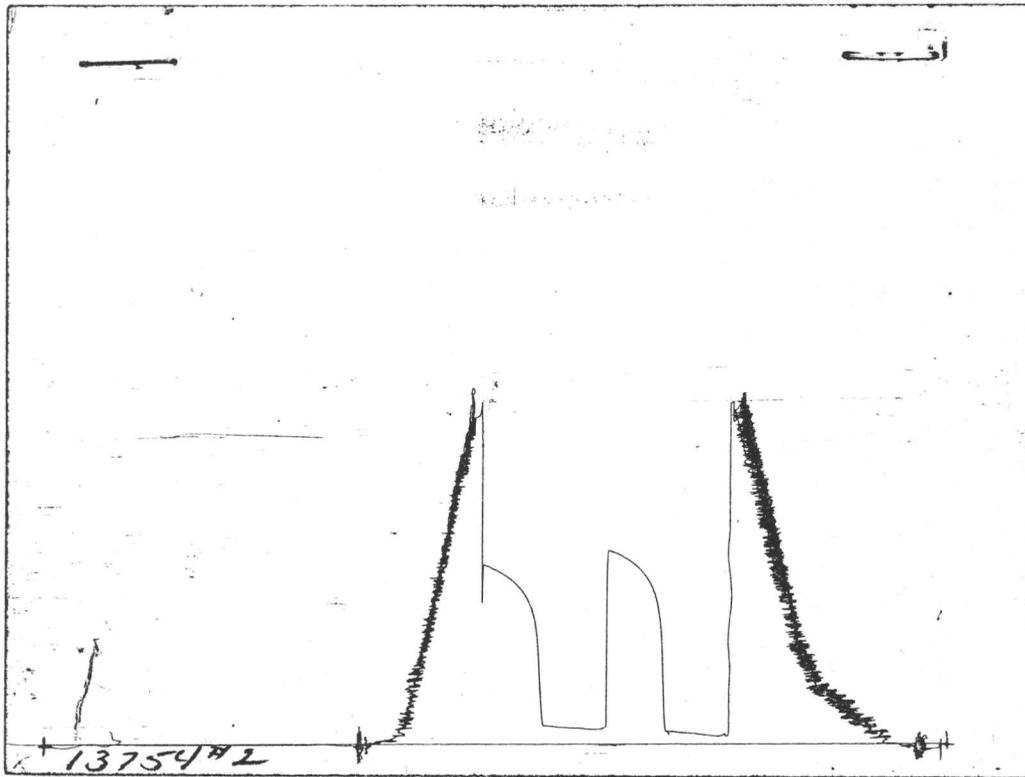
(F) Second Final Flow Pressure 102.3 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 945.6 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1746.5 PSI Initial Shut-in 45 Final Shut-in 45

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# CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1786	1798.5
(B) FIRST INITIAL FLOW PRESSURE	49	56.4
(C) FIRST FINAL FLOW PRESSURE	68	78.9
(D) INITIAL CLOSED-IN PRESSURE	996	1002.3
(E) SECOND INITIAL FLOW PRESSURE	78	87.4
(F) SECOND FINAL FLOW PRESSURE	98	102.3
(G) FINAL CLOSED-IN PRESSURE	936	945.6
(H) FINAL HYDROSTATIC MUD	1736	1746.5

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## Drill-Stem Test Data

Well Name #1 HIX FARMS Test No. 3 Date 6/13/93  
Company RITCHIE EXPLORATION, INC. Zone LKC  
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2608  
Co. Rep./Geo. KEVIN KESSLER Cont. MURFIN RIG # 8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 3S Rge. 26W Co. DECATUR State KS

Interval Tested 3655-3750 Drill Pipe Size 4.5" XH  
Anchor Length 95 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3650 Drill Collar - 2.25 Ft. Run 29  
Bottom Packer Depth 3655 Mud Wt. 9.3 lb/Gal.  
Total Depth 3750 Viscosity 43 Filtrate 10.5

Tool Open @ 1:11 Initial Blow WEAK-BUILDING TO 1"

Final Blow WEAK STEADY SURFACE BLOW

Recovery - Total Feet 60 Flush Tool? NO

Rec. 60 Feet of DRILLING MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 111 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 1954.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 78.5 PSI @ (depth) 3659 w / Clock No. 27501

(C) First Final Flow Pressure 78.5 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 987.5 PSI @ (depth) 3746 w / Clock No. 27567

(E) Second Initial Flow Pressure 98.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

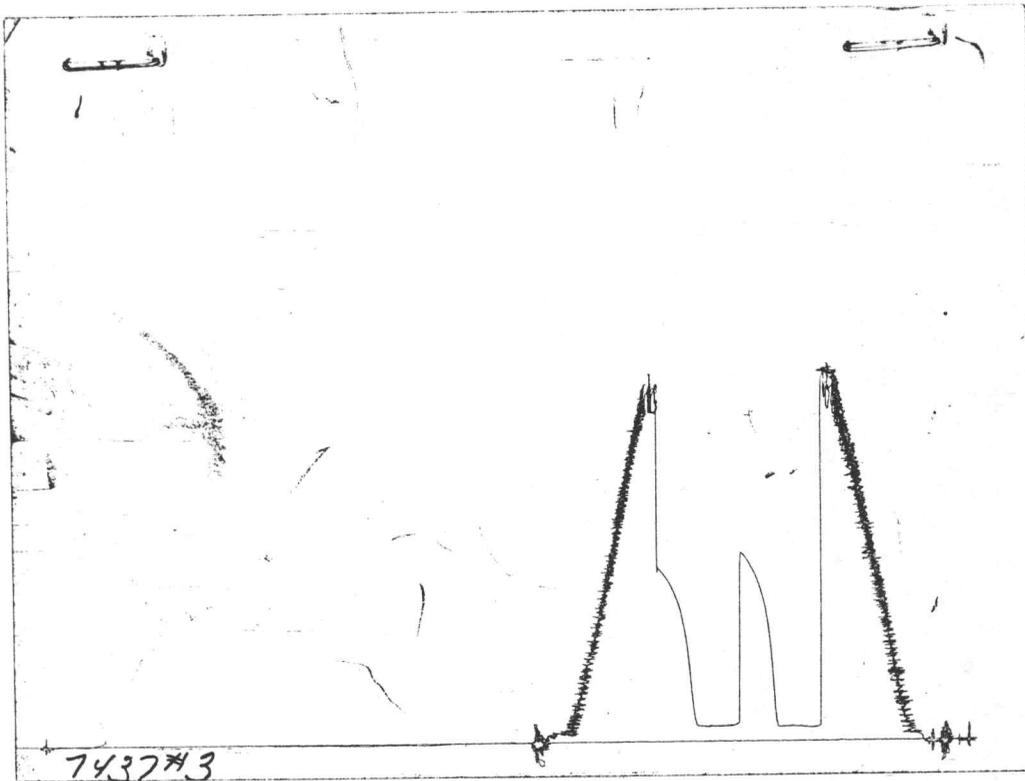
(F) Second Final Flow Pressure 98.5 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 915.2 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1845.6 PSI Initial Shut-in 30 Final Shut-in 30

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# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1946	1954.6
(B) FIRST INITIAL FLOW PRESSURE	68	78.5
(C) FIRST FINAL FLOW PRESSURE	68	78.5
(D) INITIAL CLOSED-IN PRESSURE	976	987.5
(E) SECOND INITIAL FLOW PRESSURE	88	98.5
(F) SECOND FINAL FLOW PRESSURE	88	98.5
(G) FINAL CLOSED-IN PRESSURE	907	915.2
(H) FINAL HYDROSTATIC MUD	1836	1845.6

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## Drill-Stem Test Data

Well Name #1 HIX FARMS Test No. 4 Date 6/13/93  
Company RITCHIE EXPLORATION, INC. Zone LKC  
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2608  
Co. Rep./Geo. KEVIN KESSLER Cont. MURFIN RIG # 8 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 5 Twp. 3S Rge. 26W Co. DECATUR State KS

Interval Tested 3584-3650 Drill Pipe Size 4.5" XH  
Anchor Length 66 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3584 Drill Collar - 2.25 Ft. Run 29  
Bottom Packer Depth 3650 Mud Wt. 9.3 lb/Gal.  
Total Depth 3750 Viscosity 43 Filtrate 10.2

Tool Open @ 9:50 Initial Blow WEAK-BUILDING TO STRONG -- BOTTOM OF BUCKET IN 35  
MINUTES  
Final Blow WEAK-BUILDING TO 2 1/2"

Recovery - Total Feet 253 Flush Tool? NO

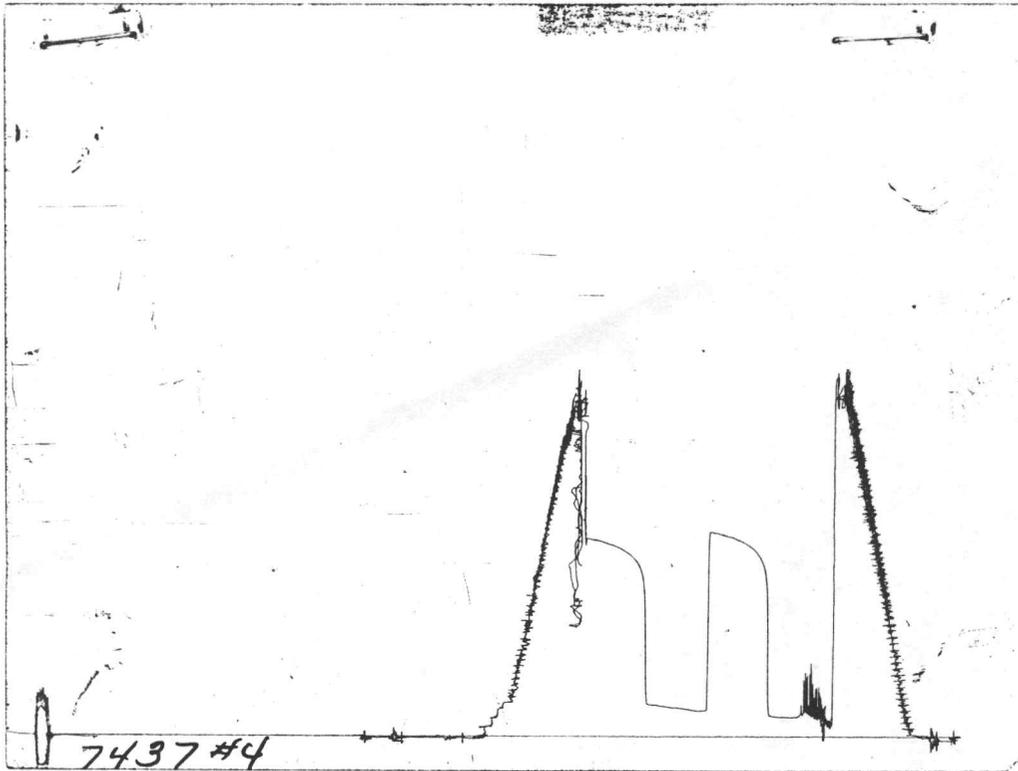
Rec. 129 Feet of SLIGHTLY OIL AND GAS CUT MUD 5%GAS/5%OIL/90%MUD  
Rec. 124 Feet of SLIGHTLY OIL CUT WATERY MUD 2%OIL/90%WATER/8%MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 111 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.11 @ 83 °F Chlorides 76000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 1798.5 PSI AK1 Recorder No. 13754 Range 4000  
(B) First Initial Flow Pressure 46.5 PSI @ (depth) 3588 w / Clock No. 27501  
(C) First Final Flow Pressure 103.9 PSI AK1 Recorder No. 7437 Range 4200  
(D) Initial Shut-in Pressure 982.7 PSI @ (depth) 3646 w / Clock No. 27567  
(E) Second Initial Flow Pressure 126.4 PSI AK1 Recorder No. 13849 Range 4375  
(F) Second Final Flow Pressure 159.4 PSI @ (depth) 3746 w / Clock No. 8376  
(G) Final Shut-in Pressure 952.6 PSI Initial Opening 45 Final Flow 45  
(H) Final Hydrostatic Mud 1697.4 PSI Initial Shut-in 45 Final Shut-in 45

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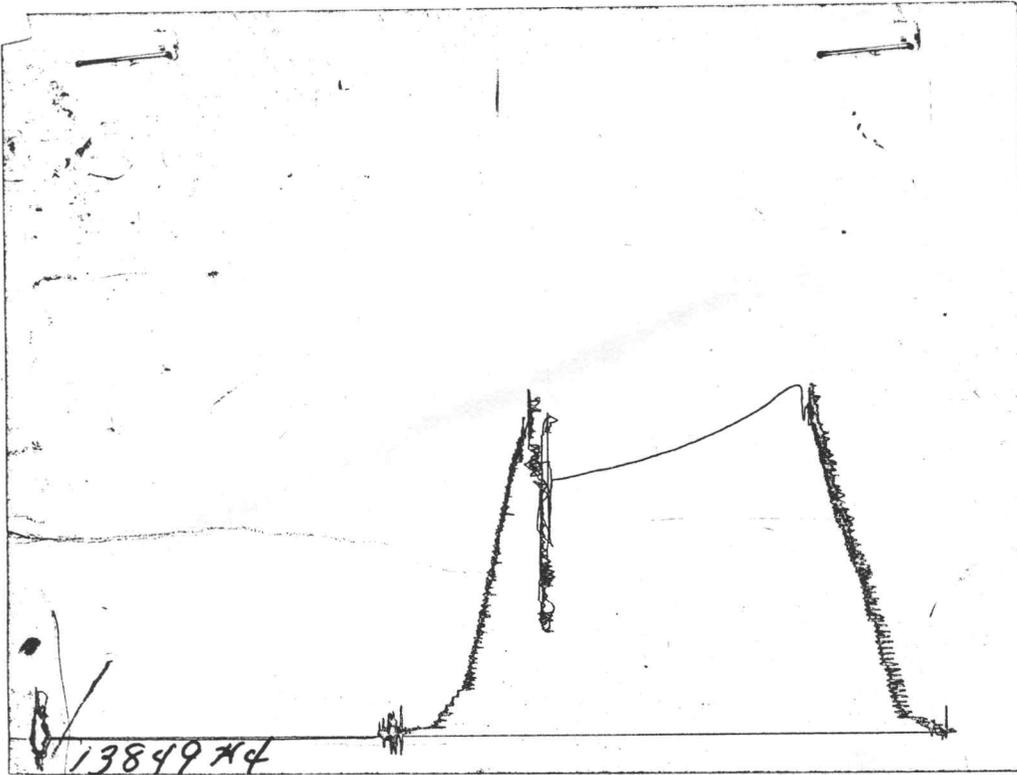
# CHART PAGE



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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1786	1798.5
(B) FIRST INITIAL FLOW PRESSURE	39	46.5
(C) FIRST FINAL FLOW PRESSURE	98	103.9
(D) INITIAL CLOSED-IN PRESSURE	976	982.7
(E) SECOND INITIAL FLOW PRESSURE	118	126.4
(F) SECOND FINAL FLOW PRESSURE	147	159.4
(G) FINAL CLOSED-IN PRESSURE	966	952.6
(H) FINAL HYDROSTATIC MUD	1686	1697.4

CHART PAGE



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FIELD  
READING

OFFICE  
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD