

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name KACHELMAN #2 Test No. 1 Date 8/8/94  
Company KNIGHTON OIL Zone MARMATON  
Address 221 S BROADWAY #710 WICHITA KS 67202 Elevation 1970  
Co. Rep./Geo. DAVID MONTAGUE Cont. DUKE RIG #4 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 11 Twp. 24S Rge. 14W Co. STAFFORD State KS

Interval Tested 3954-3994 Drill Pipe Size 4.5" XH  
Anchor Length 40 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3949 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3954 Mud Wt. \_\_\_\_\_ 9.1 lb/Gal.  
Total Depth 3994 Viscosity 42 Filtrate 12.0

Tool Open @ 1:57 A.M. Initial Blow WEAK BLOW (1/2") DEAD IN 30 MIN  
0  
Final Blow NO BLOW

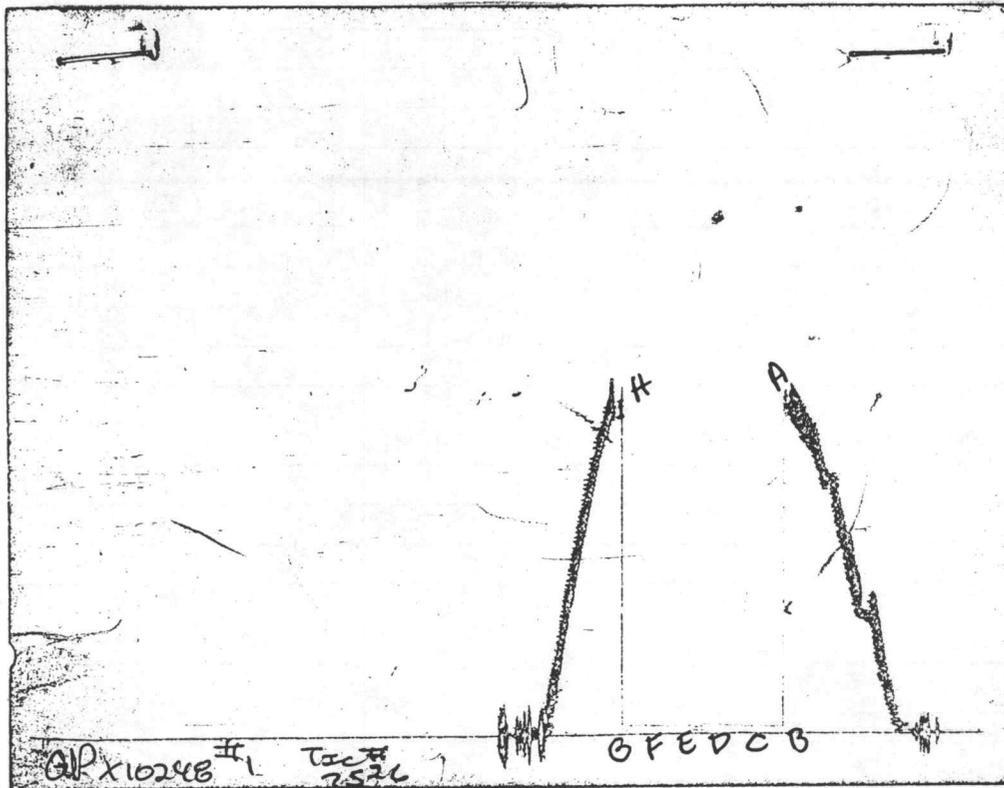
Recovery - Total Feet 20 Flush Tool? NO  
Rec. 20 Feet of DRILLING MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 109 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 6000 ppm Recovery Chlorides 5500 ppm System

(A) Initial Hydrostatic Mud 1979.3 PSI AK1 Recorder No. 13788 Range 4650  
(B) First Initial Flow Pressure 51.5 PSI @ (depth) 3991 w / Clock No. 22993  
(C) First Final Flow Pressure 52.7 PSI AK1 Recorder No. 10248 Range 4400  
(D) Initial Shut-in Pressure 65.2 PSI @ (depth) 3986 w / Clock No. 30410  
(E) Second Initial Flow Pressure 52.7 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 52.7 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 61.8 PSI Initial Opening 30 Final Flow 30  
(H) Final Hydrostatic Mud 1931.0 PSI Initial Shut-in 30 Final Shut-in 30

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1929	1979.3
(B) FIRST INITIAL FLOW PRESSURE	27	51.5
(C) FIRST FINAL FLOW PRESSURE	29	52.7
(D) INITIAL CLOSED-IN PRESSURE	46	65.2
(E) SECOND INITIAL FLOW PRESSURE	29	52.7
(F) SECOND FINAL FLOW PRESSURE	29	52.7
(G) FINAL CLOSED-IN PRESSURE	44	61.8
(H) FINAL HYDROSTATIC MUD	1920	1931

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## Drill-Stem Test Data

Well Name KACHELMAN #2 Test No. 2 Date 8/9/94  
Company KNIGHTON OIL Zone LANSING  
Address 221 S BROADWAY #710 WICHITA KS 67202 Elevation 1970  
Co. Rep./Geo. DAVID MONTAGUE Cont. DUKE RIG #4 Est. Ft. of Pay KS  
Location: Sec. 11 Twp. 24S Rge. 14W Co. STAFFORD State KS

Interval Tested 3920-3940 Drill Pipe Size 4.5" XH  
Anchor Length 20 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3915-3920 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3940 Mud Wt. 9.5 lb/Gal.  
Total Depth 4326 Viscosity 52 Filtrate 10.4

Tool Open @ 5:25 P.M. Initial Blow STRON BLOW-PACKERS FAILED-PICKED UP & RESET USING MORE WEIGHT. PACKERS FAILED

Final Blow NONE

Recovery - Total Feet 150 Flush Tool? NO

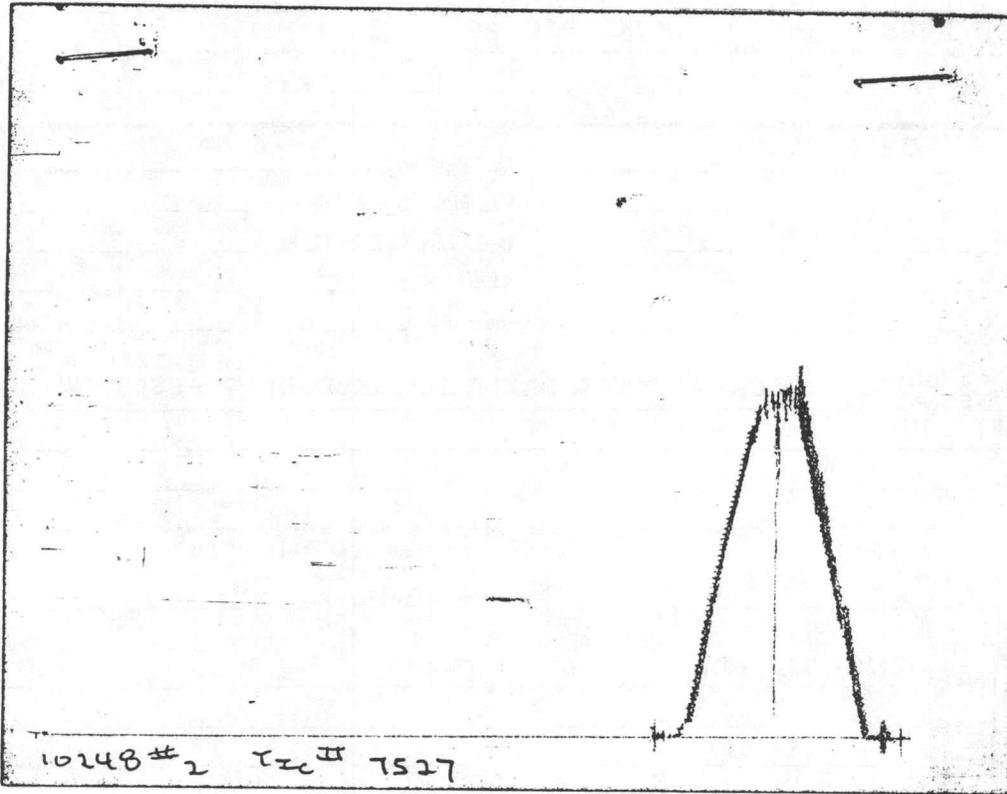
Rec. 150 Feet of DRILLING MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 113 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 8000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud \_\_\_\_\_ PSI AK1 Recorder No. 13224 Range 4350  
(B) First Initial Flow Pressure \_\_\_\_\_ PSI @ (depth) 3930 w / Clock No. 30401  
(C) First Final Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. 10248 Range 4400  
(D) Initial Shut-in Pressure \_\_\_\_\_ PSI @ (depth) 3935 w / Clock No. 30410  
(E) Second Initial Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. 13788 Range 4650  
(F) Second Final Flow Pressure \_\_\_\_\_ PSI @ (depth) 4323 w / Clock No. 22993  
(G) Final Shut-in Pressure \_\_\_\_\_ PSI Initial Opening \_\_\_\_\_ Final Flow \_\_\_\_\_  
(H) Final Hydrostatic Mud \_\_\_\_\_ PSI Initial Shut-in \_\_\_\_\_ Final Shut-in \_\_\_\_\_

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- (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

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## Drill-Stem Test Data

Well Name KACHELMAN #2 Test No. 3 Date 8/9/94  
Company KNIGHTON OIL Zone LANSING  
Address 221 S BROADWAY #710 WICHITA KS 67202 Elevation 1970  
Co. Rep./Geo. DAVID MONTAGUE Cont. DUKE RIG #4 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 11 Twp. 24S Rge. 14W Co. STAFFORD State KS

Interval Tested 3913-3940 Drill Pipe Size 4.5" XH  
Anchor Length 27 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 3908-3913 Drill Collar - 2.25 Ft. Run 30  
Bottom Packer Depth 3940 Mud Wt. 9.5 lb/Gal.  
Total Depth 4326 Viscosity 52 Filtrate 10.4

Tool Open @ 8:15 P.M. Initial Blow STRONG BLOW-PACKER FAILURE-PICKED UP & RESET USING MOR WEIGHT-PACKER FAILURE  
Final Blow NONE

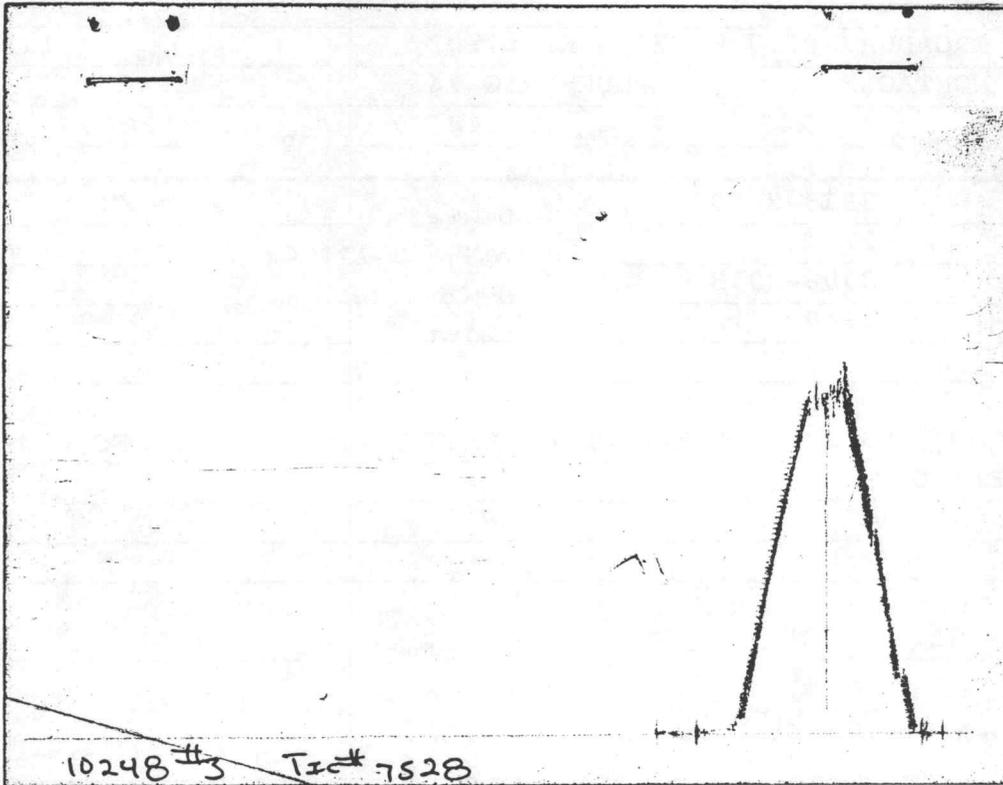
Recovery - Total Feet 150 Flush Tool? NO  
Rec. 150 Feet of DRILLING MUD  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 113 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 8000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud \_\_\_\_\_ PSI AK1 Recorder No. 13224 Range 4350  
(B) First Initial Flow Pressure \_\_\_\_\_ PSI @ (depth) 3930 w / Clock No. 30401  
(C) First Final Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. 10248 Range 4400  
(D) Initial Shut-in Pressure \_\_\_\_\_ PSI @ (depth) 3935 w / Clock No. 30410  
(E) Second Initial Flow Pressure \_\_\_\_\_ PSI AK1 Recorder No. 13788 Range 4650  
(F) Second Final Flow Pressure \_\_\_\_\_ PSI @ (depth) 4323 w / Clock No. 22993  
(G) Final Shut-in Pressure \_\_\_\_\_ PSI Initial Opening \_\_\_\_\_ Final Flow \_\_\_\_\_  
(H) Final Hydrostatic Mud \_\_\_\_\_ PSI Initial Shut-in \_\_\_\_\_ Final Shut-in \_\_\_\_\_

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- (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