TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name REIN #1-20 Test No. 1 Date 10/2/93

Company HALLIBURTON OIL PRODUCTION COMPANY Zone CHEROKEE

Address 525 CENTRAL PARK DR. #1-210 OKLAHOMA CITY OK 73105 Elevation 2283

Co. Rep./Geo. JERRY HONAS Cont. MALLARD J.V. INC Est. Ft. of Pay

Location: Sec. 20 Twp. 19S Rge. 21W Co. NESS State KS

Interval Tested 4365-4430 Drill Pipe Size 4.5" XH

Anchor Length 65 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 4360-4365 Drill Collar – 2.25 Ft. Run 240

Bottom Packer Depth 4430 Mud Wt. 9.3 lb/Gal.

Total Depth 4485 Viscosity 49 Filtrate 11.2

Tool Open @ 3:30 PM Initial Blow WEAK BLOW (1/2") - DEAD IN 15 MINUTES

Final Blow NO BLOW

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of DRILLING MUD WITH OIL SPOTS

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 120 °F Gravity °API @ °F Corrected Gravity °API

RW 2.01 @ 78 °F Chlorides 7000 ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2166.4 PSI AK1 Recorder No. 10248 Range 4400

(B) First Initial Flow Pressure 36.1 PSI @ (depth) 4420 w / Clock No. 30410

(C) First Final Flow Pressure 48.9 PSI AK1 Recorder No. 13224 Range 4350

(D) Initial Shut-in Pressure 85.4 PSI @ (depth) 4425 w / Clock No. 27785

(E) Second Initial Flow Pressure 41.2 PSI AK1 Recorder No. 13278 Range 4400

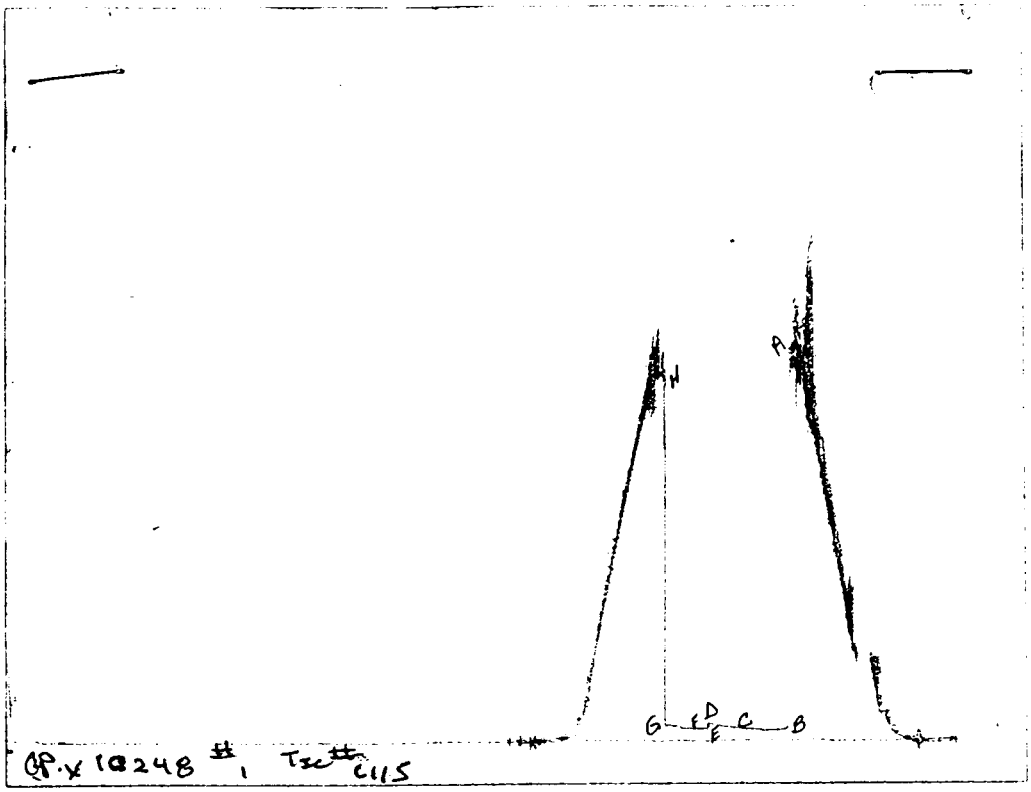
(F) Second Final Flow Pressure 43.4 PSI @ (depth) 4449 w / Clock No. 22993

(G) Final Shut-in Pressure 84.3 PSI Initial Opening 30 Final Flow 5

(H) Final Hydrostatic Mud 2088.7 PSI Initial Shut-in 30 Final Shut-in 25

Our Representative GARY PEVOTEAUX

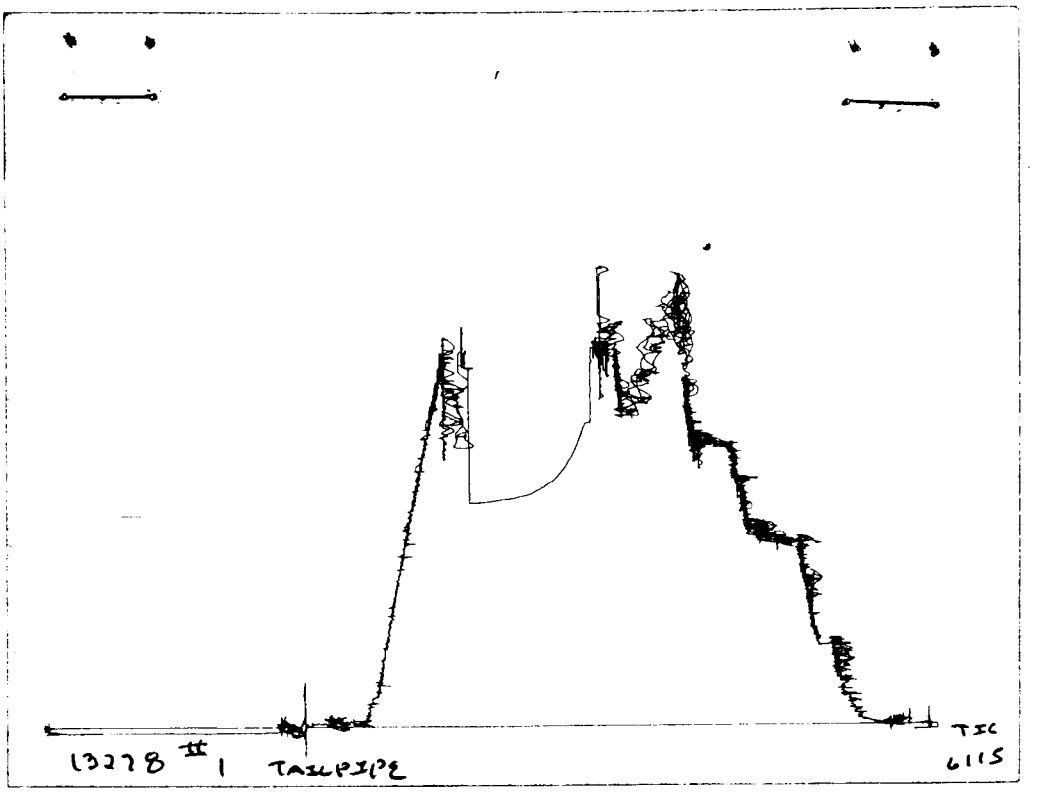
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2162	2166.4
(B) FIRST INITIAL FLOW PRESSURE	39	36.1
(C) FIRST FINAL FLOW PRESSURE	41	48.9
(D) INITIAL CLOSED-IN PRESSURE	80	85.4
(E) SECOND INITIAL FLOW PRESSURE	43	41.2
(F) SECOND FINAL FLOW PRESSURE	43	43.4
(G) FINAL CLOSED-IN PRESSURE	80	84.3
(H) FINAL HYDROSTATIC MUD	2085	2088.7

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING

(A) INITIAL HYDROSTATIC MUD

(B) FIRST INITIAL FLOW PRESSURE

(C) FIRST FINAL FLOW PRESSURE

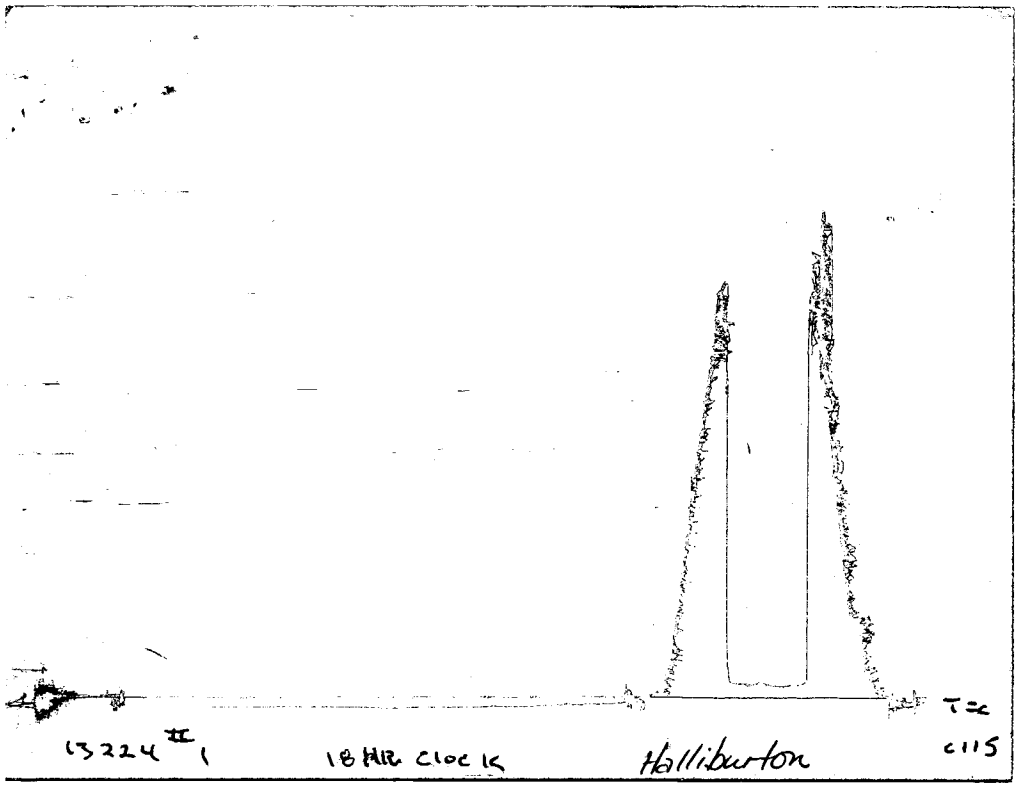
(D) INITIAL CLOSED-IN PRESSURE

(E) SECOND INITIAL FLOW PRESSURE

(F) SECOND FINAL FLOW PRESSURE

(G) FINAL CLOSED-IN PRESSURE

(H) FINAL HYDROSTATIC MUD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13224 II 1
18 HR CLOCK
Halliburton
C115