

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name R E HINEMAN #1 Test No. 1 Date 4/17/93
Company RITCHIE EXPLORATION, INC. Zone FT SCOTT
Address 125 N MARKET SUITE 1000 WICHITA KS 67202 Elevation 2755
Co. Rep./Geo. KITT NOAH Cont. WHITE & ELLIS RIG #9 Est. Ft. of Pay _____
Location: Sec. 33 Twp. 18S Rge. 28W Co. LANE State KS

Interval Tested	<u>4516-4606</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>90</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>160</u>
Top Packer Depth	<u>4511</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>4516</u>	Mud Wt.	<u>9.3</u> lb/Gal.
Total Depth	<u>4606</u>	Viscosity	<u>45</u> Filtrate <u>10</u>

Tool Open @ 2:10 AM Initial Blow WEAK BLOW - 1/2" BUILDING TO 1 1/2"

Final Blow WEAK BLOW THROUGHOUT 1/2"

Recovery - Total Feet 90 Flush Tool? NO

Rec.	<u>30</u>	Feet of	<u>GAS IN PIPE</u>
Rec.	<u>20</u>	Feet of	<u>FREE OIL</u>
Rec.	<u>70</u>	Feet of	<u>OIL CUT MUD 20%OIL/80%MUD</u>
Rec.	_____	Feet of	_____
Rec.	_____	Feet of	_____

BHT 118 °F Gravity 36 °API @ 60 °F Corrected Gravity 36 °API
RW 2.2 @ 60 °F Chlorides 2800 ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud 2230.9 PSI AK1 Recorder No. 13337 Range 3975

(B) First Initial Flow Pressure 40.5 PSI @ (depth) 4583 w / Clock No. 25828

(C) First Final Flow Pressure 52.4 PSI AK1 Recorder No. 10332 Range 4025

(D) Initial Shut-in Pressure 1046.9 PSI @ (depth) 4603 w / Clock No. 27566

(E) Second Initial Flow Pressure 87.0 PSI AK1 Recorder No. _____ Range _____

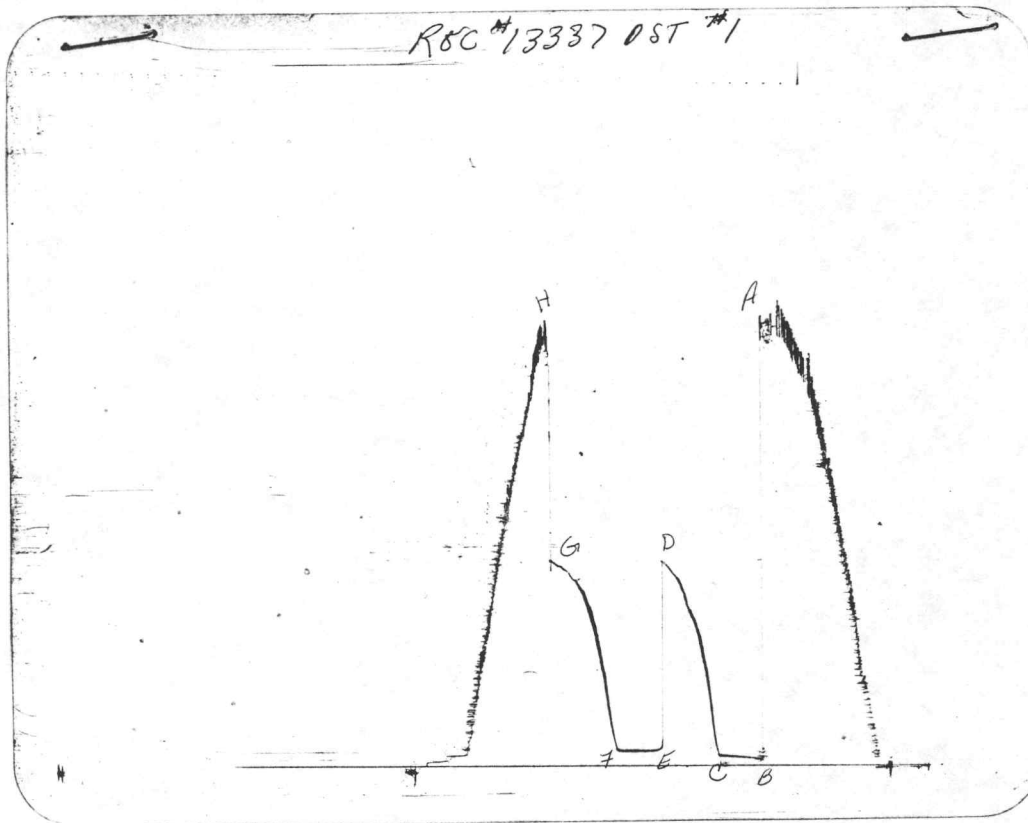
(F) Second Final Flow Pressure 92.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1061.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2197.8 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative JOHN RIEDL

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2209	2230.9
(B) FIRST INITIAL FLOW PRESSURE	24	40.5
(C) FIRST FINAL FLOW PRESSURE	38	52.4
(D) INITIAL CLOSED-IN PRESSURE	1048	1046.9
(E) SECOND INITIAL FLOW PRESSURE	60	87
(F) SECOND FINAL FLOW PRESSURE	70	92.9
(G) FINAL CLOSED-IN PRESSURE	1045	1061.9
(H) FINAL HYDROSTATIC MUD	2186	2197.8