

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name FRANK #1 Test No. 1 Date 10/17/93
Company CHARTER PRODUCTION COMPANY Zone PAWNEE SD
Address 224 EAST DOUGLAS #400 WICHITA KS 67202 Elevation 2147
Co. Rep./Geo. ERNIE MORRISON Cont. DUKE DRLG RIG #1 Est. Ft. of Pay _____
Location: Sec. 33 Twp. 18S Rge. 20W Co. RUSH State KS

Interval Tested 4151-4163 Drill Pipe Size 4.5" XH
Anchor Length 12 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4146 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4151 Mud Wt. 9.5 lb/Gal.
Total Depth 4163 Viscosity 49 Filtrate 9.6

Tool Open @ 10:25 PM Initial Blow WEAK-DIED IN 20 MINUTES

Final Blow NO BLOW

Recovery - Total Feet 2 Flush Tool? NO

Rec. 2 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 6000 ppm System

(A) Initial Hydrostatic Mud 2177.7 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 56.6 PSI @ (depth) 4155 w / Clock No. 27501

(C) First Final Flow Pressure 56.6 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 79.9 PSI @ (depth) 4159 w / Clock No. 27567

(E) Second Initial Flow Pressure 56.6 PSI AK1 Recorder No. _____ Range _____

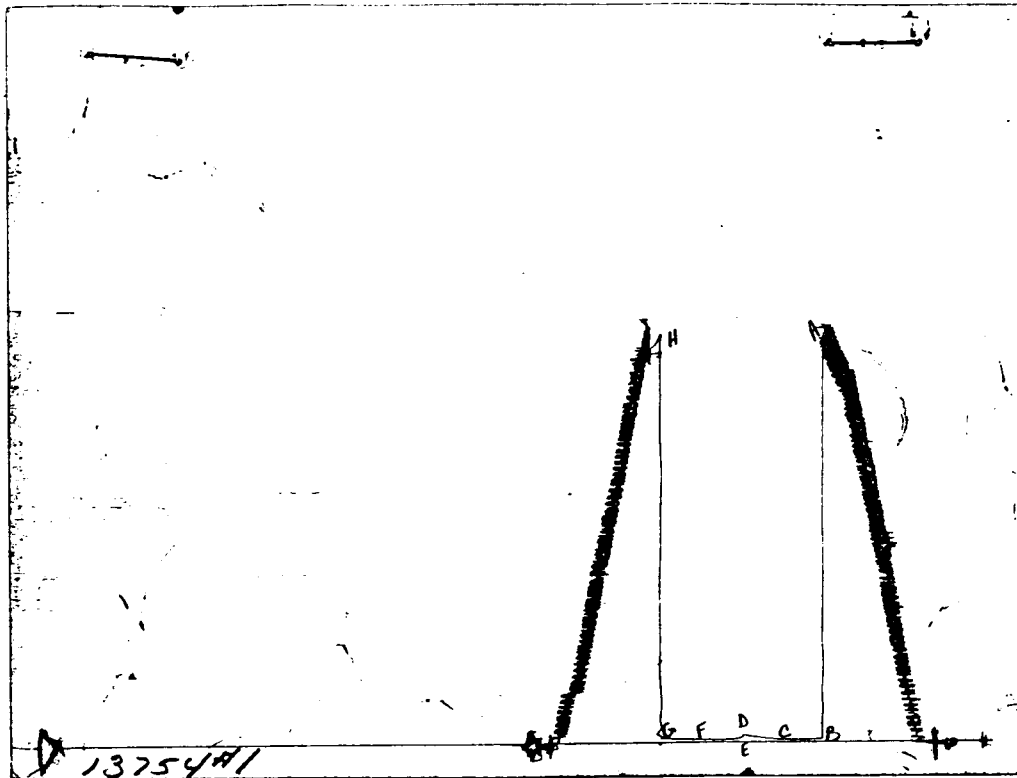
(F) Second Final Flow Pressure 56.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 56.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2133.3 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	2178	2177.7
(B) FIRST INITIAL FLOW PRESSURE	55	56.6
(C) FIRST FINAL FLOW PRESSURE	55	56.6
(D) INITIAL CLOSED-IN PRESSURE	77	79.9
(E) SECOND INITIAL FLOW PRESSURE	55	56.6
(F) SECOND FINAL FLOW PRESSURE	55	56.6
(G) FINAL CLOSED-IN PRESSURE	55	56.6
(H) FINAL HYDROSTATIC MUD	2125	2133.3

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Test Ticket

No 6247

Well Name & No.	Frank #1	Test No.	1	Date	10-17-93
Company	Charter Prod. Co.	Zone Tested	Pawnee Sd		
Address	224 E. Douglas, Wichita, Ks. 67202	Elevation	2147 K.B.		
Co. Rep./Geo.	Ernie Morrison	Cont.	Duke #1	Est. Ft. of Pay	
Location: Sec.	33	Twp.	18	Rge.	20
				Co.	Rush
				State	Ks.
No. of Copies	10	Distribution Sheet		Yes	No
				Turnkey	Yes
				No	Evaluation

Interval Tested	4151 - 4163	Drill Pipe Size	4.5 XH			
Anchor Length	12	Top Choke — 1"	Bottom Choke — 3/4"			
Top Packer Depth	4146	Hole Size — 7 7/8"	Rubber Size — 6 3/4"			
Bottom Packer Depth	4151	Wt. Pipe I.D. — 2.7 Ft. Run				
Total Depth	4163	Drill Collar — 2.25 Ft. Run				
Mud Wt.	9.5	lb/gal.	Viscosity	49	Filtrate	9.6
Tool Open @	10:25 p.m.	Initial Blow	Weak - Died in 20 min.			

Final Blow No blow

Recovery — Total Feet	2	Feet of Gas In Pipe		Flush Tool?				
Rec.	2	Feet Of	D.M.	%gas	%oil	%water	100	%mud
Rec.		Feet Of		%gas	%oil	%water		%mud
Rec.		Feet Of		%gas	%oil	%water		%mud
Rec.		Feet Of		%gas	%oil	%water		%mud
Rec.		Feet Of		%gas	%oil	%water		%mud

BHT 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud	2128	PSI	AK1 Recorder No.	13754	Range	4000
(B) First Initial Flow Pressure	55	PSI	@ (depth)	4155	w/Clock No.	27501
(C) First Final Flow Pressure	55	PSI	AK1 Recorder No.	7437	Range	4200
(D) Initial Shut-In Pressure	77	PSI	@ (depth)	4159	w/Clock No.	27567
(E) Second Initial Flow Pressure	55	PSI	AK1 Recorder No.		Range	
(F) Second Final Flow Pressure	55	PSI	@ (depth)		w/Clock No.	
(G) Final Shut-In Pressure	55	PSI	Initial Opening	30	Test	600
(H) Final Hydrostatic Mud	2125	PSI	Initial Shut-In	30	Jars	X 200

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 30 Safety Joint X 50
Final Shut-In 30 Straddle _____

Approved By Ernie Morrison

Our Representative Dan Banoff

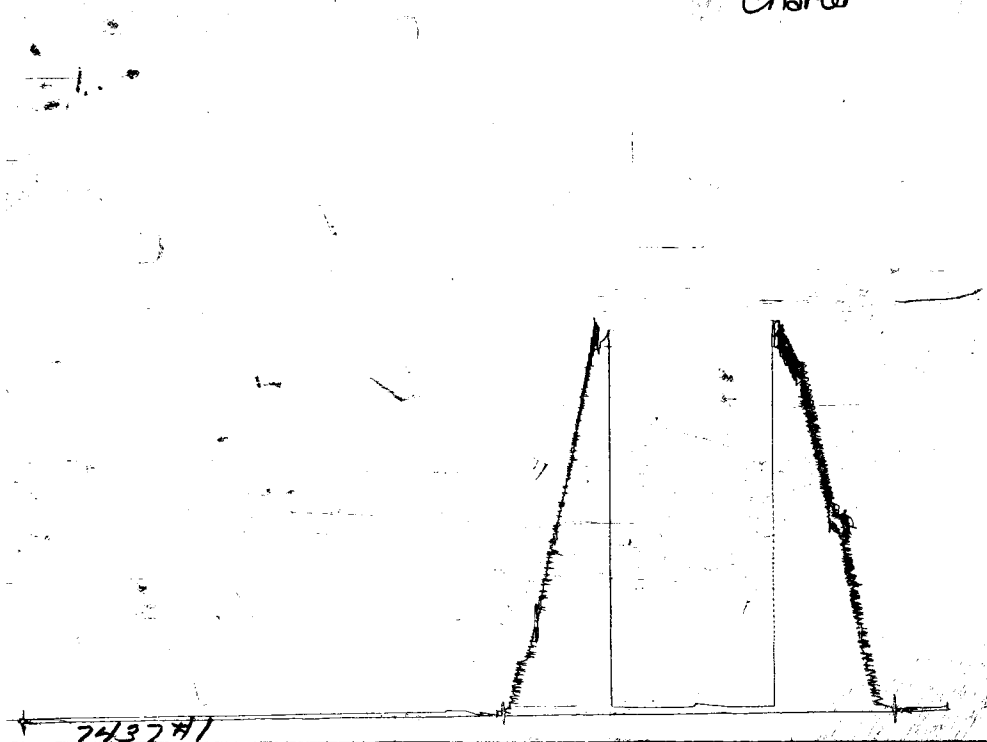
Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ 850.00

Order



2437#1