TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name KENNEDY #1 Test No. 1 Date 11/3/92

Company N-B COMPANY Zone TORONTO

Address 4 SOUTH KANSAS RUSSELL KS 67665 Elevation 2757

Co. Rep./Geo. MARK TORR Cont. EMPHASIS RIG #8 Est. Ft. of Pay

Location: Sec. 20 Twp. 9S Rge. 27W Co. SHERIDAN State KS

Interval Tested 3866-3900 Drill Pipe Size 4.5" XH

Anchor Length 34 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 3861 Drill Collar – 2.25 Ft. Run

Bottom Packer Depth 3866 Mud Wt. 9 lb/Gal.

Total Depth 3900 Viscosity 50 Filtrate 5.6

Tool Open @ 1:26 PM Initial Blow WEAK BLOW @1/4" STEADY THROUGHOUT

Final Blow SURFACE BLOW DIED IN 8 MINUTES

Recovery - Total Feet 20 Flush Tool? NO

Rec. 20 Feet of DRILLING MUD WITH SPOTS OIL IN TOOL

Rec. Feet of

Rec. Feet of

Rec. Feet of

Rec. Feet of

BHT 110 °F Gravity °API @ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 1937.6 PSI AK1 Recorder No. 13309 Range 4700

(B) First Initial Flow Pressure 32.5 PSI @ (depth) 3890 w / Clock No. 25810

(C) First Final Flow Pressure 32.5 PSI AK1 Recorder No. 13339 Range 4025

(D) Initial Shut-in Pressure 1029.9 PSI @ (depth) 3895 w / Clock No. 27566

(E) Second Initial Flow Pressure 53.1 PSI AK1 Recorder No. Range

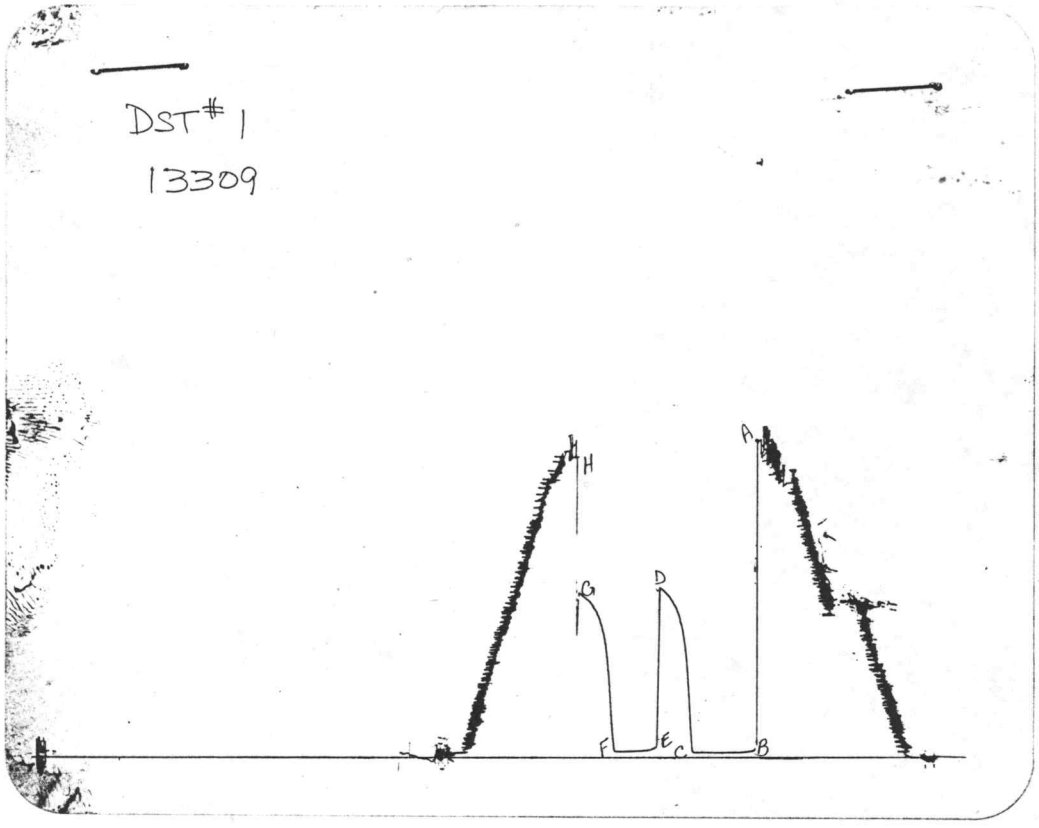
(F) Second Final Flow Pressure 53.1 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1002.6 PSI Initial Opening 45 Final Flow 30

(H) Final Hydrostatic Mud 1870.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1932	1937.6
(B) FIRST INITIAL FLOW PRESSURE	31	32.5
(C) FIRST FINAL FLOW PRESSURE	31	32.5
(D) INITIAL CLOSED-IN PRESSURE	1030	1029.9
(E) SECOND INITIAL FLOW PRESSURE	52	53.1
(F) SECOND FINAL FLOW PRESSURE	52	53.1
(G) FINAL CLOSED-IN PRESSURE	1000	1002.6
(H) FINAL HYDROSTATIC MUD	1872	1870.9

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FAX: (913) 483-3285

Test Ticket

No. 5631

Well Name & No. Kennedy #1 Test No. 1 Date 11-3-92

Company N-B Company Zone Tested Toronto

Address 4 South Kansas Russell, KS. 67665 Elevation 2757 (KB)

Co. Rep./Geo. Mark Torr Cont. Emphasis #8 Est. Ft. of Pay

Location: Sec. 20 Twp. 9 S Rge. 27 W Co. Sheridan State KS.

No. of Copies Normal Distribution Sheet ____ Yes X No Turnkey ____ Yes X No ____ Evaluation

Interval Tested 3866 - 3900 Drill Pipe Size 4½" XH

Anchor Length 34' Top Choke — 1" ____ Bottom Choke — ¾" ____

Top Packer Depth 3861 Hole Size — 7⅞" ____ Rubber Size — 6¾" ____

Bottom Packer Depth 3866 Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 3900 Drill Collar — 2.25 Ft. Run —

Mud Wt. 9.0 lb/gal. Viscosity 50 Filtrate 5.6

Tool Open @ 1:26 pm. Initial Blow Weak blow @ ¼" steady throughout.

Final Blow Surface blow died in 8 mins.

Recovery — Total Feet 20' Feet of Gas in Pipe ____ Flush Tool? No

Rec. ____ Feet Of ____	%gas	%oil	%water	%mud
Rec. 20' Feet Of Drlg. Mud	%gas	%oil	%water	%mud
Rec. ____ Feet Of w/ spots oil in tool	%gas	%oil	%water	%mud
Rec. ____ Feet Of ____	%gas	%oil	%water	%mud
Rec. ____ Feet Of ____	%gas	%oil	%water	%mud

BHT 110° °F Gravity ____ °API @ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud	1932 PSI	AK1 Recorder No.	13309	Range	4700
(B) First Initial Flow Pressure	31 PSI	@ (depth)	3890	w/Clock No.	25810
(C) First Final Flow Pressure	31 PSI	AK1 Recorder No.	13339	Range	4025
(D) Initial Shut-In Pressure	1030 PSI	@ (depth)	3895	w/Clock No.	27566
(E) Second Initial Flow Pressure	52 PSI	AK1 Recorder No.	—	Range	—
(F) Second Final Flow Pressure	52 PSI	@ (depth)	—	w/Clock No.	—
(G) Final Shut-In Pressure	1000 PSI	Initial Opening	45	Test	
(H) Final Hydrostatic Mud	1872 PSI	Initial Shut-In	30	Jars	
		Final Flow	30	Safety Joint	
		Final Shut-In	30	Straddle	
				Circ. Sub	X N/C
				Sampler	
				Extra Packer	
				Other	
				TOTAL PRICE $	

Approved By Mark Torr

Our Representative Rod Steinbrink

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