TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 5677

Well Name & No. DICKMAN "A"-2 Test No. 1 Date 5-21-93

Company PINTAIL PETROLEUM LTD. Zone Tested MISS

Address 412 EAST DOUGLAS SUITE 600 WICHITA KS Elevation 2456 K.B

Co. Rep./Geo. WALTER INNES PHILLIPS Cont. MALLARD R162 Est. Ft. of Pay

Location: Sec. 17 Twp. 17S Rge. 24W Co. NESS State KS

No. of Copies Distribution Sheet Yes (No) Turnkey Yes (No) Evaluation

Interval Tested 4340 - 4426 Drill Pipe Size 4½ XH

Anchor Length 86 FT Top Choke — 1" Bottom Choke — ¾"

Top Packer Depth 4335 Hole Size — 7⅞" Rubber Size — 6¾"

Bottom Packer Depth 4340 Wt. Pipe I.D. — 2.7 Ft. Run 0

Total Depth 4426 Drill Collar — 2.25 Ft. Run 300

Mud Wt. 9.1 lb / gal. Viscosity 46 Filtrate 8

Tool Open @ 2:45 A.M. Initial Blow GOOD BLOW - SLOW GRADUAL BUILD TO 7"

Final Blow STRONG BLOW - SLOW BUILD THROUGHOUT TO 9" BY END

Recovery — Total Feet 420 Feet of Gas in Pipe 90 Flush Tool? NO

Rec. 120	Feet Of	CLEAN GASSY OIL	%gas	%oil	%water	%mud
Rec. 300	Feet Of	MUD CUT GASSY OIL	10%gas	55%oil	%water	35%mud
Rec.	Feet Of		%gas	%oil	%water	%mud
Rec.	Feet Of		%gas	%oil	%water	%mud
Rec.	Feet Of		%gas	%oil	%water	%mud

BHT 124 °F Gravity 36 °API @ 60 °F Corrected Gravity 36 °API

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

(A) Initial Hydrostatic Mud	2148 PSI	AK1 Recorder No.	7437	Range	4000
(B) First Initial Flow Pressure	50 PSI	@ (depth)	4344	w/Clock No.	27567
(C) First Final Flow Pressure	98 PSI	AK1 Recorder No.	13754 RDP	Range	4000
(D) Initial Shut-in Pressure	1250 PSI	@ (depth)	4423	w/Clock No.	8376
(E) Second Initial Flow Pressure	128 PSI	AK1 Recorder No.	—	Range	—
(F) Second Final Flow Pressure	197 PSI	@ (depth)	—	w/Clock No.	—
(G) Final Shut-in Pressure	1234 PSI	Initial Opening	30	Test	✓ 6000
(H) Final Hydrostatic Mud	2090 PSI	Initial Shut-in	45	Jars	
		Final Flow	90	Safety Joint	
		Final Shut-in	60	Straddle	
				Circ. Sub	
				Sampler	
				Extra Packer	
				Other	

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.

Approved By Walter Phillips

Our Representative John Rust

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

JUN. 1 1993

Drill-Stem Test Data

Well Name DICKMAN 'A' #2 C NE/4 NE/4 Test No. 1 Date 5/21/93

Company PINTAIL PETROLEUM LTD Zone MISSISSIPPI

Address 412 E DOUGLAS WICHITA KS 67202 Elevation 2456

Co. Rep./Geo. WALTER INNES PHILLIPS Cont. MALLARD #2 Est. Ft. of Pay

Location: Sec. 17 Twp. 17S Rge. 24W Co. NESS State KS

Interval Tested 4340-4426 Drill Pipe Size 4.5" FH

Anchor Length 86 Wt. Pipe I.D. - 2.7 Ft. Run

Top Packer Depth 4335 Drill Collar – 2.25 Ft. Run 300

Bottom Packer Depth 4340 Mud Wt. 9.1 lb/Gal.

Total Depth 4426 Viscosity 46 Filtrate 8

Tool Open @ 2:45 AM Initial Blow GOOD BLOW - SLOW GRADUAL BUILD TO 7"

Final Blow STRONG BLOW - SLOW BUILD THROUGHOUT TO 9" BY END

Recovery - Total Feet 420 Flush Tool? NO

Rec. 90 Feet of GAS IN PIPE

Rec. 120 Feet of CLEAN GASSY OIL

Rec. 300 Feet of MUD CUT GASSY OIL 10%GAS/55%OIL/35%MUD

Rec. Feet of

Rec. Feet of

BHT 124 °F Gravity 36 °API @ 60 °F Corrected Gravity 36 °API

RW @ °F Chlorides ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2156.3 PSI AK1 Recorder No. 7437 Range 4200

(B) First Initial Flow Pressure 59.2 PSI @ (depth) 4344 w / Clock No. 27567

(C) First Final Flow Pressure 105.2 PSI AK1 Recorder No. 13754 Range 4000

(D) Initial Shut-in Pressure 1258.7 PSI @ (depth) 4423 w / Clock No. 8376

(E) Second Initial Flow Pressure 135.9 PSI AK1 Recorder No. Range

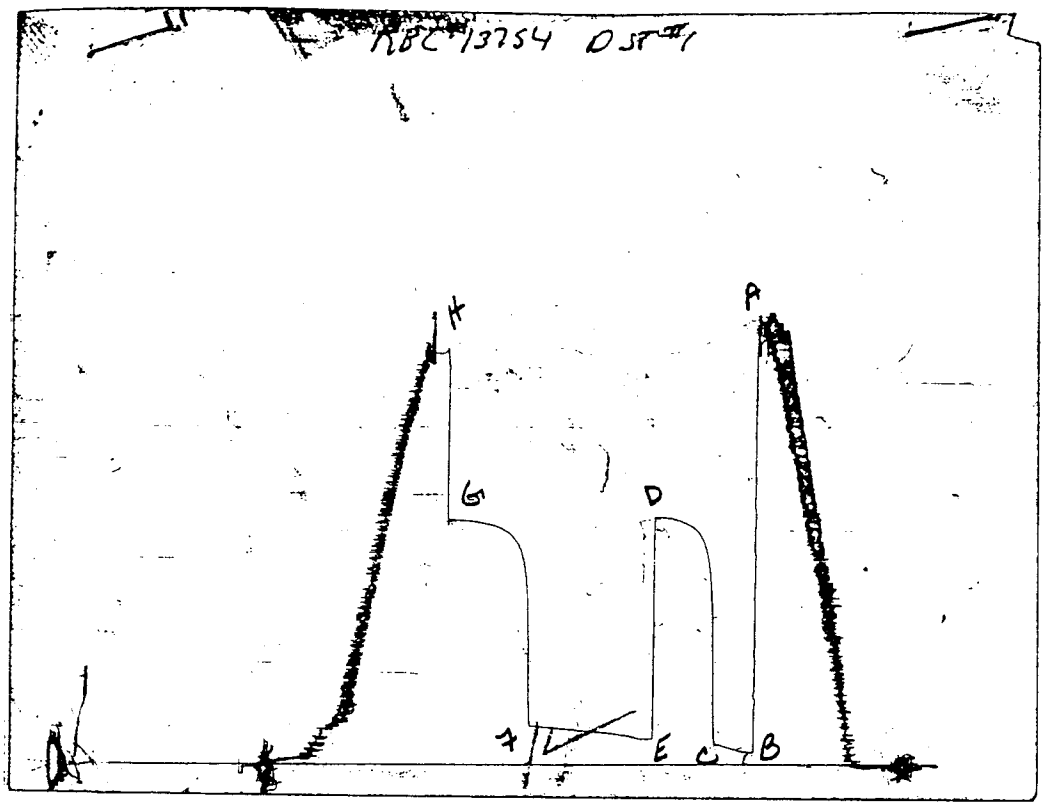
(F) Second Final Flow Pressure 204.8 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1239.6 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2094.7 PSI Initial Shut-in 45 Final Shut-in 60

Tester Representative JOHN RIEDL

CHART PAGE



Pintail Pt. 1
Dickman A-2
C NE NE
17-17s-24w
5-21-93

This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2148	2156.3
(B) FIRST INITIAL FLOW PRESSURE	50	59.2
(C) FIRST FINAL FLOW PRESSURE	98	105.2
(D) INITIAL CLOSED-IN PRESSURE	1250	1258.7
(E) SECOND INITIAL FLOW PRESSURE	128	135.9
(F) SECOND FINAL FLOW PRESSURE	197	204.8
(G) FINAL CLOSED-IN PRESSURE	1234	1239.6
(H) FINAL HYDROSTATIC MUD	2090	2094.7