DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

Company Trans Pacific Oil Corporation — Lease & Well No. Maloney "A" No. 1

Elevation 1474 KB — Formation Mississippi — Effective Pay -- Ft. — Ticket No. 1391

Date 10-28-98 — Sec. 18 — Twp. 25S — Range 5W — County Reno — State Kansas

Test Approved By Alan D. Banta — Diamond Representative Roger D. Friedly

Formation Test No. 1 — Interval Tested from 3,413 ft. to 3,420 ft. — Total Depth 3,420 ft.

Packer Depth 3,408 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Packer Depth 3,413 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,401 ft. — Recorder Number Elec. — Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,417 ft. — Recorder Number 13556 — Cap. 5,475 psi

Below Straddle Recorder Depth ft. — Recorder Number — Cap. psi

Drilling Contractor Duke Drlg Co., Inc. - Rig 1 — Drill Collar Length -- ft. — I.D. -- in.

Mud Type Chemical — Viscosity 46 — Weight Pipe Length -- ft. — I.D. -- in.

Weight 9.5 — Water Loss 8.8 cc. — Drill Pipe Length 3,387 ft. — I.D. 3 1/2 in.

Chlorides 5,500 P.P.M. — Test Tool Length 26 ft. — Tool Size 3 1/2 - IF in.

Jars: Make Bowen — Serial Number Not Run — Anchor Length 7 ft. — Size 4 1/2 - FH in.

Did Well Flow? No — Reversed Out No — Surface Choke Size 1 in. — Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. — Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 1 min. No blow back during shut-in.
2nd Open: Strong blow. Off bottom of bucket immediately. No blow back during shut-in. Gas to surface in 20 mins. Gas burns nicely. (SEE GAS VOLUME REPORT)

Recovered 25 ft. of muddy water = .29725 bbls. (Grind out: 50%-mud; 50%-water)

Recovered 25 ft. of muddy water = .29725 bbls. (Grind out: 20%-mud; 80%-water)

Recovered 50 ft. of TOTAL FLUID = .5945 bbls.

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 3:03 A.M. P.M. — Time Started Off Bottom 6:33 A.M. P.M. — Maximum Temperature 111°

Initial Hydrostatic Pressure ..... (A) 1776 P.S.I.

Initial Flow Period ..... Minutes 45 (B) 79 P.S.I. to (C) 55 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 716 P.S.I.

Final Flow Period ..... Minutes 60 (E) 55 P.S.I. to (F) 49 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 724 P.S.I.

Final Hydrostatic Pressure ..... (H) 1735 P.S.I.

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P. O. Box 157
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(800) 542-7313

FLUID SAMPLE DATA

Company Trans Pacific Oil Corporation

Lease & Well No. Maloney "A" No. 1

Date 10-28-98 Sec. 18 Twp. 25 S Range 5 W

Formation Test No. 1 Interval Tested From 3,413 ft. to 3,420 ft. Total Depth 3,420 ft.

Formation Mississippi

	MUD PIT	RECOVERY	
Viscosity	46 CP	33 CP	
Weight	9.5	9.1	
Water Loss	8.8 CC	50+ CC	
PH Factor	11.0	6.5	Water 5.5

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.14	@ 75 °F.		46,000 ppm
Recovery Mud	.15	@ 72 °F.		45,000 ppm
Recovery Mud Filtrate	.17	@ 74 °F.		39,000 ppm
Mud Pit Sample	.76	@ 69 °F.		8,400 ppm
Mud Pit Sample Filtrate	.84	@ 72 °F.		8,000 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Alan D. Banta

Remarks Pit filtrate triton dish chlorides were 5,500 Ppm.
Recovery filtrate triton dish chlorides were 34,000 Ppm.
Recovery water dish chlorides were 47,500 Ppm.

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GAS VOLUME REPORT

Company Trans Pacific Oil Corporation Lease & Well No. Maloney "A" No. 1

Date 10-28-98 Sec. 18 Twp. 25 S Rge. 5 W Location C W/2 SE County Reno State KS

Drilling Contractor Duke Drlg Co., Inc. - Rig 1 Formation Mississippi DST No. 1

Remarks: 2nd Open: Gas to surface in 20 mins. Gas burns nicely.

INITIAL FLOW

Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW

Open Tool: 4:33 a.m.

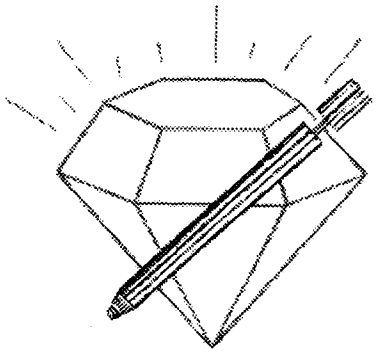
	Time O'Clock	Orifice Size	Gauge	CF/D
	4:58 a.m.	1/8 in.	¼ psi	690
	5:03 a.m.	1/8 in.	½ psi	1,380
	5:08 a.m.	1/8 in.	1 psi	2,760
	5:13 a.m.	1/8 in.	1½ psi	3,390
*	5:18 a.m.	1/8 in.	1½ psi	3,390
	5:23 a.m.	1/8 in.	1½ psi	3,390
	5:28 a.m.	1/8 in.	1½ psi	3,390
	5:33 a.m.	1/8 in.	1½ psi	3,390

* Sample taken.

TRANS PAC DRLG

MALONEY 1-1

DST #1

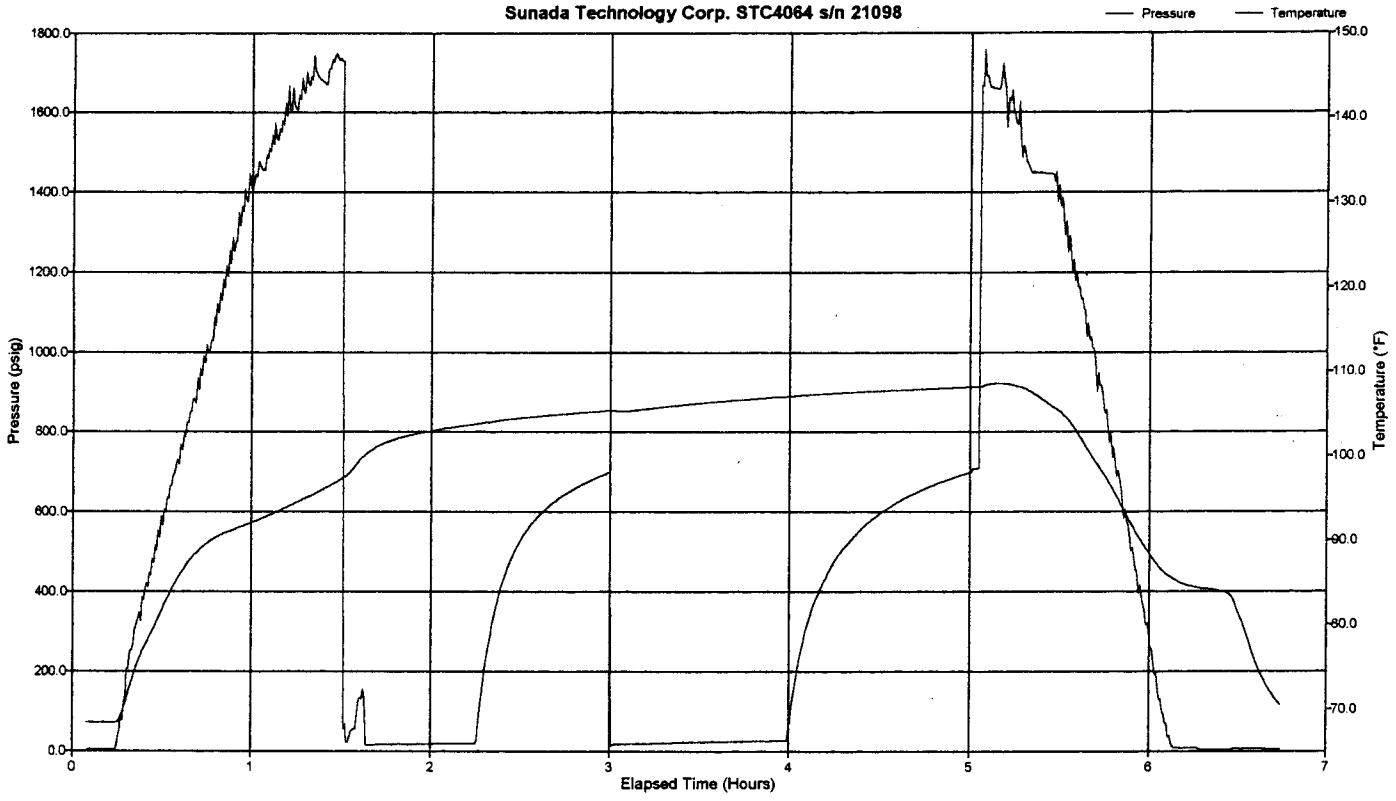


DIAMOND TESTING

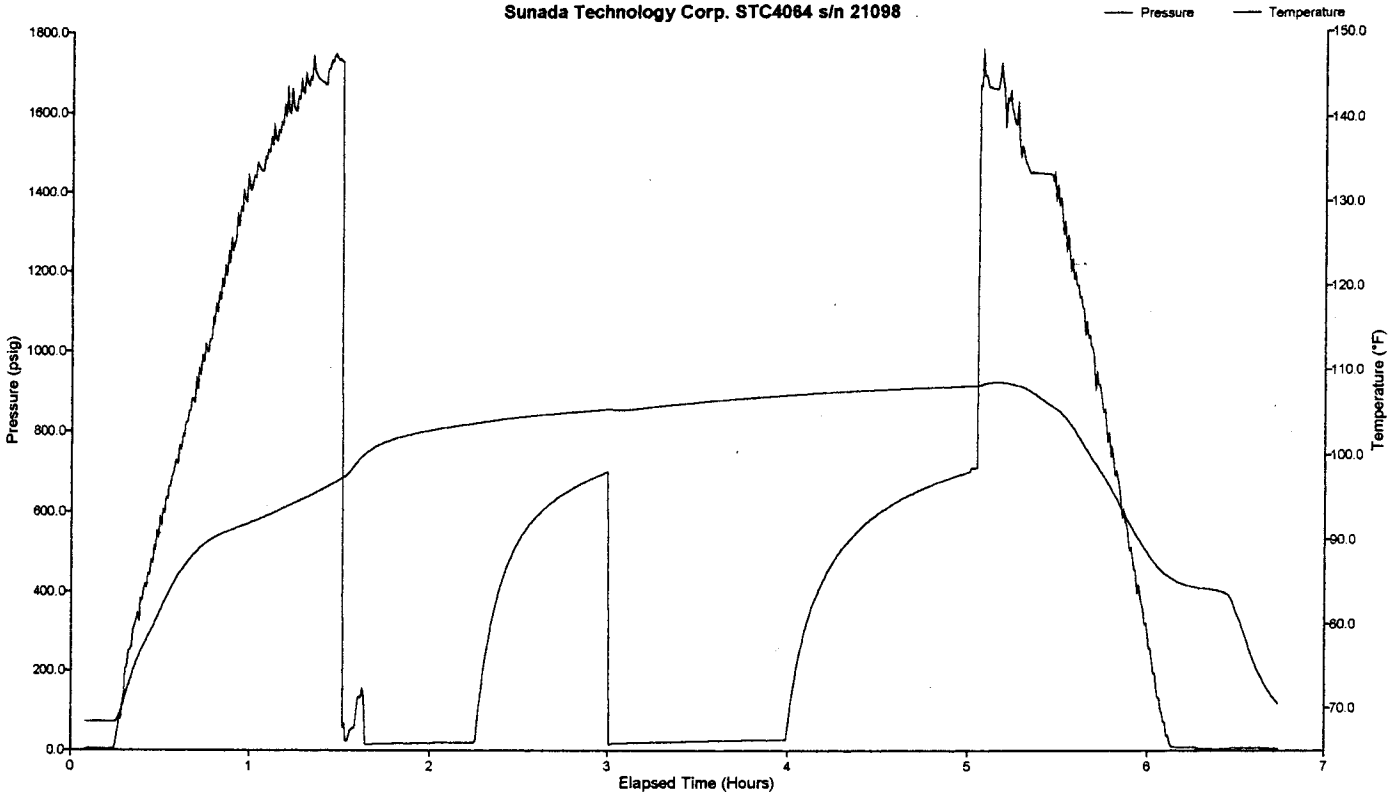
P.O. BOX 157

HOISINGTON, KANSAS 67544

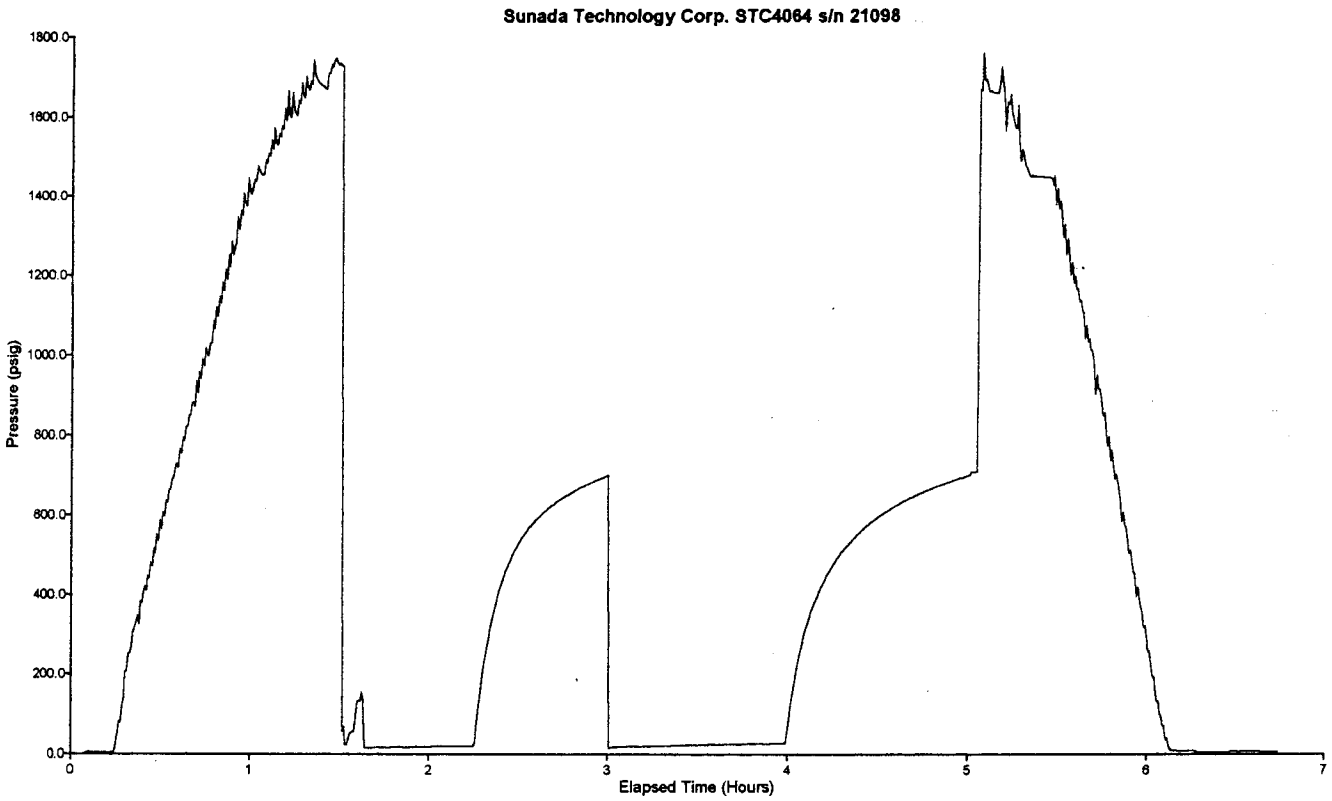
Well LSD: DST 1
Well Name: MALONEY 1-A
Company: TRANS PAC DRLG
Battery on: Oct 28, 1998 at 01:35:00
Notes:

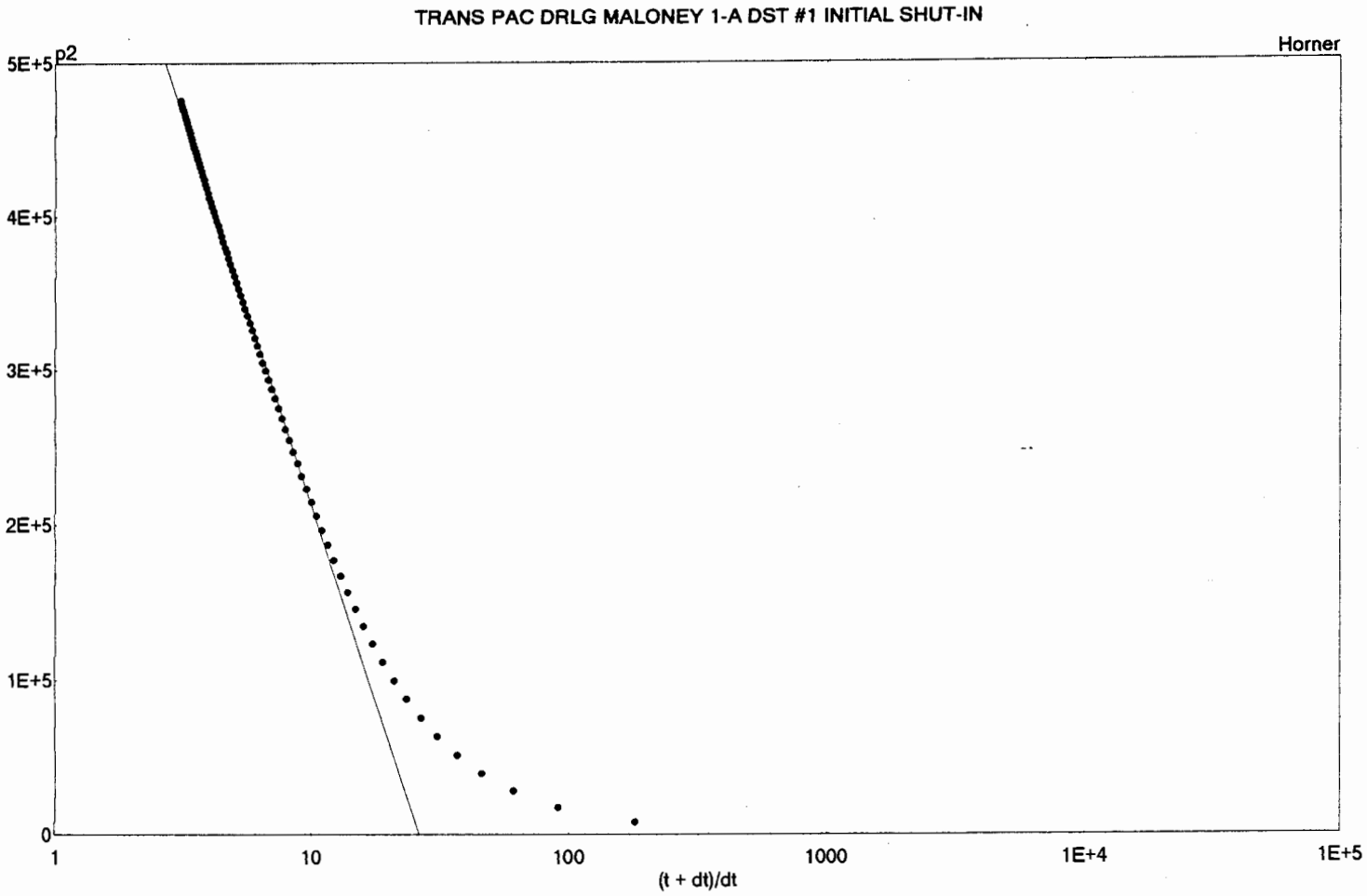


Well LSD: DST 1
Well Name: MALONEY 1-A
Company: TRANS PAC DRLG
Battery on: Oct 28, 1998 at 01:35:00
Notes:



Well LSD: DST 1
Well Name: MALONEY 1-A
Company: TRANS PAC DRLG
Battery on: Oct 28, 1998 at 01:35:00
Notes:





TRANS PAC DRLG MALONEY 1-A DST #1 INITIAL SHUT-IN

Analysis Results: Horner

Parameters:

Slope = -505463

m(1 hr) = 517058

Prd Time: = 1.5 hr

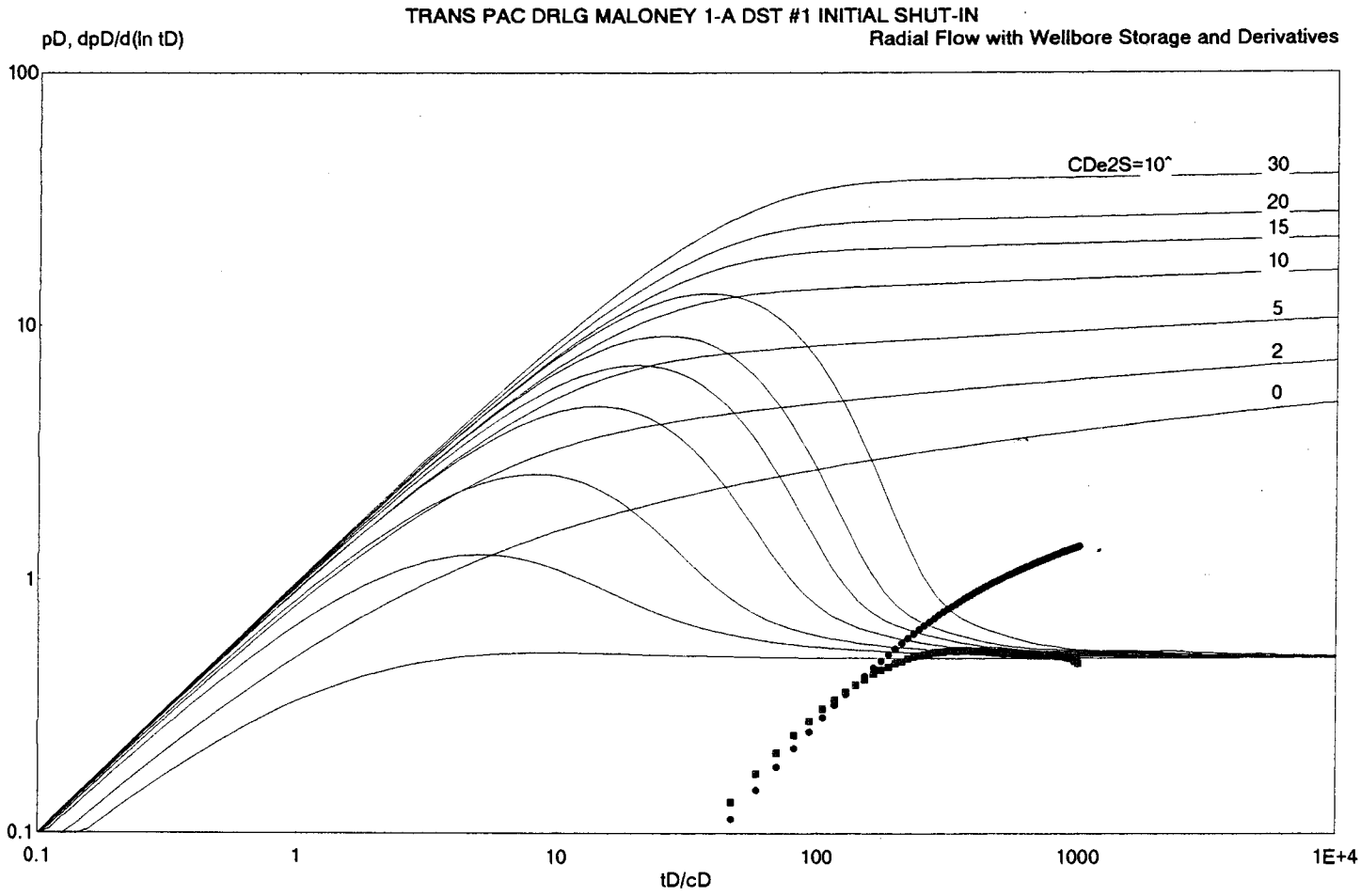
Calculated Values:

kh = 2.53698 md-ft

k = 0.42283 md

Skin = 1.08533

P* = 854.07 psi



TRANS PAC DRLG MALONEY 1-A DST #1 INITIAL SHUT-IN

Analysis Results: Radial Flow with Wellbore Storage and Derivatives

Dimensionless Parameters:

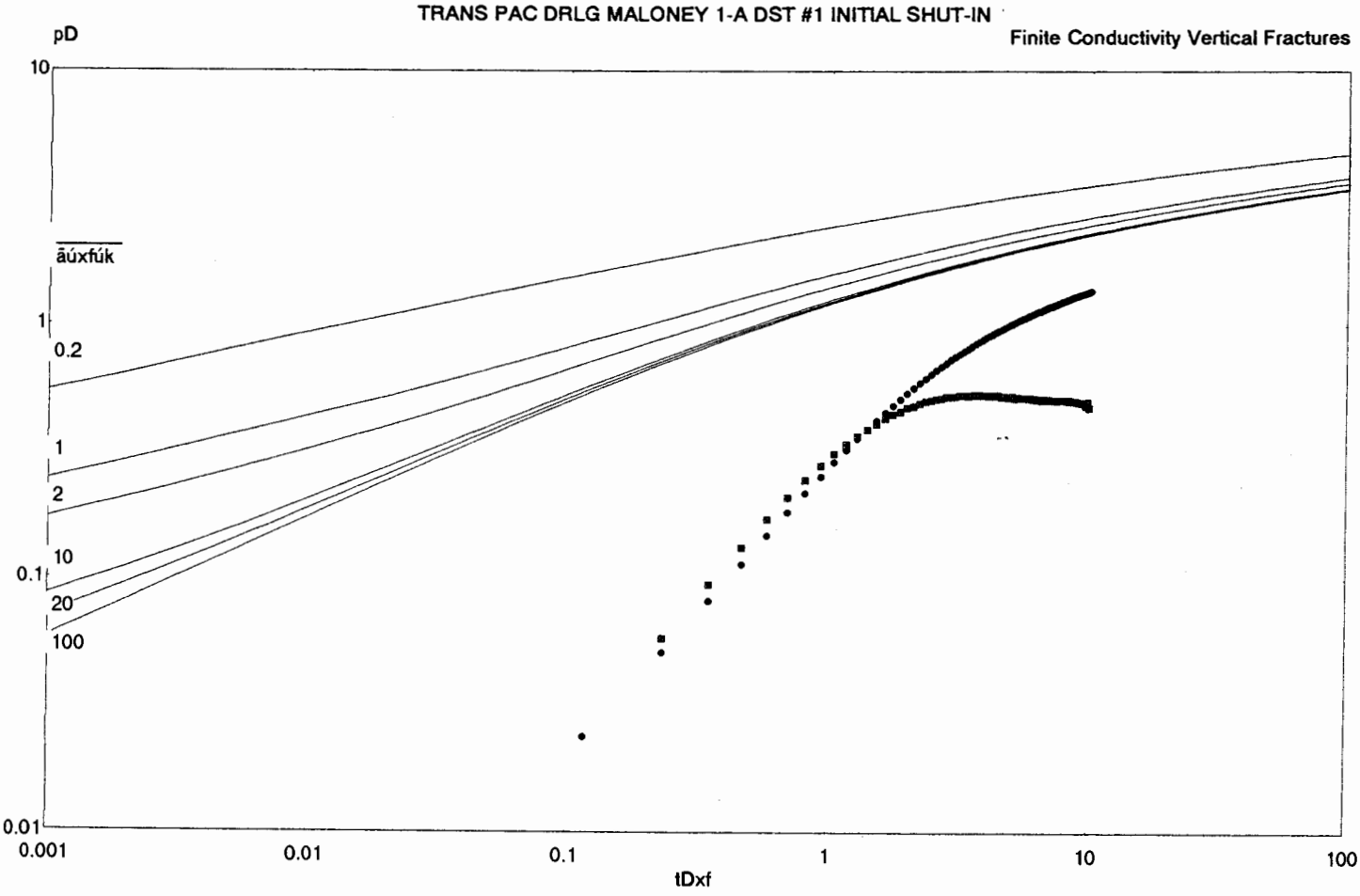
tD/CD 1hr: = 1395.34

pD 1 psi = 0.0000028788

Calculated Values:

k = 0.534 md

kh = 3.2065 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 INITIAL SHUT-IN

Analysis Results: Finite Conductivity Vertical Fractures

Dimensionless Parameters:

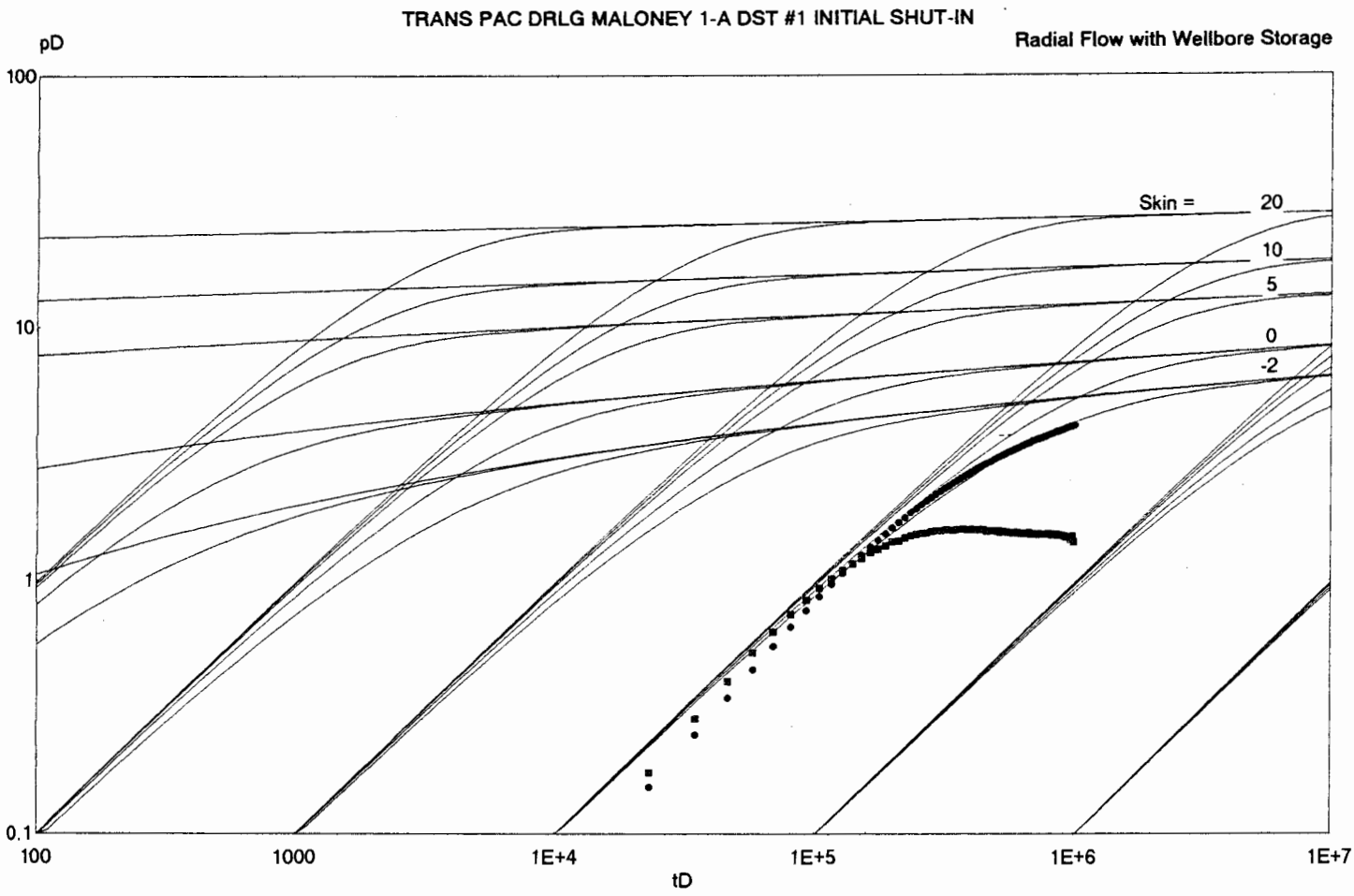
tD/CD 1hr: = 13.9534

pD 1 psi = 0.0000028788

Calculated Values:

k = 0.534 md

kh = 3.2065 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 INITIAL SHUT-IN

Analysis Results: Radial Flow with Wellbore Storage

Dimensionless Parameters:

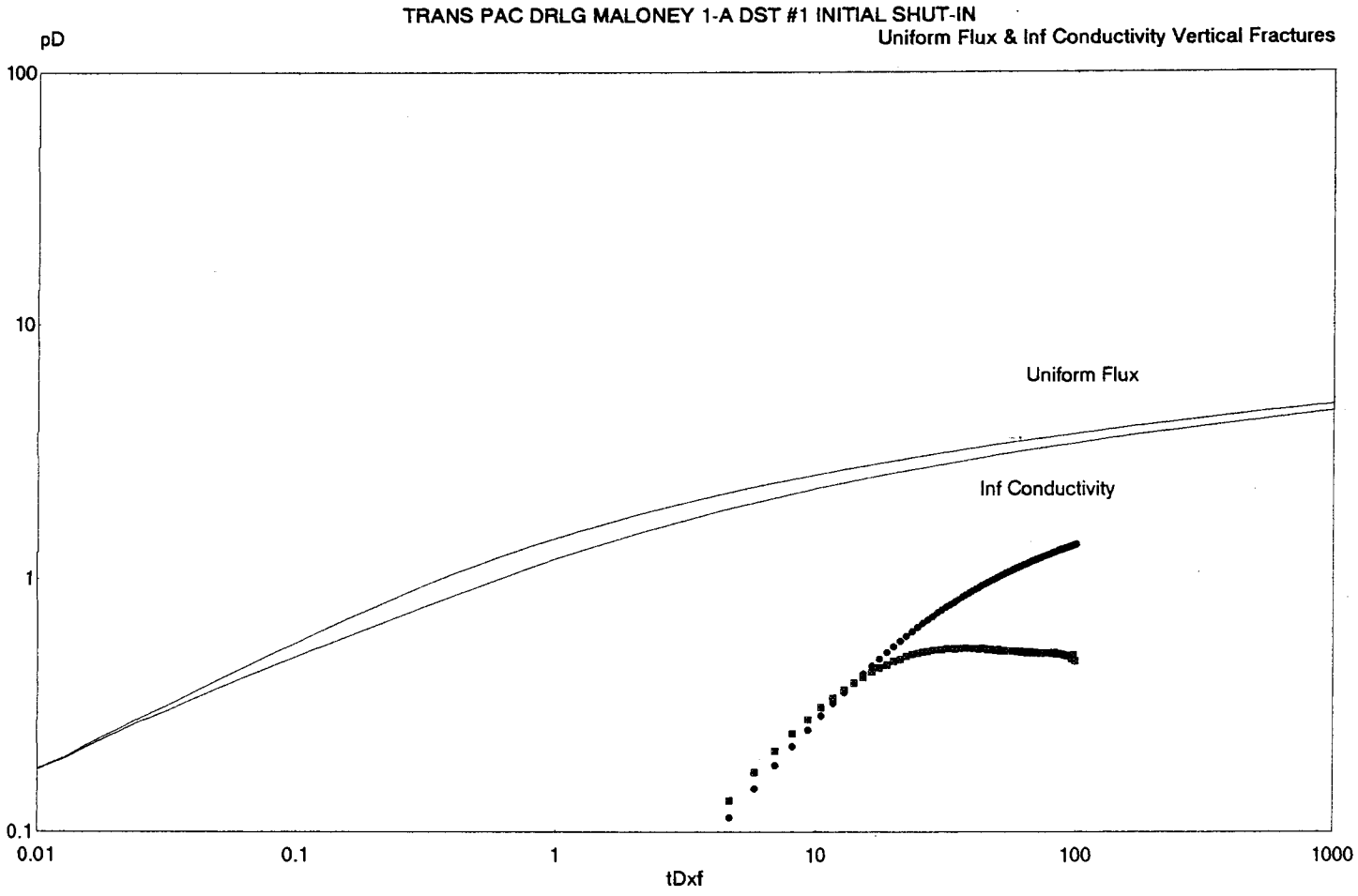
tD/CD 1hr: = 1.3953E+6

pD 1 psi = 0.0000086365

Calculated Values:

k = 1.603 md

kh = 9.6196 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 INITIAL SHUT-IN

Analysis Results: Uniform Flux & Inf Conductivity Vertical Fractures

Dimensionless Parameters:

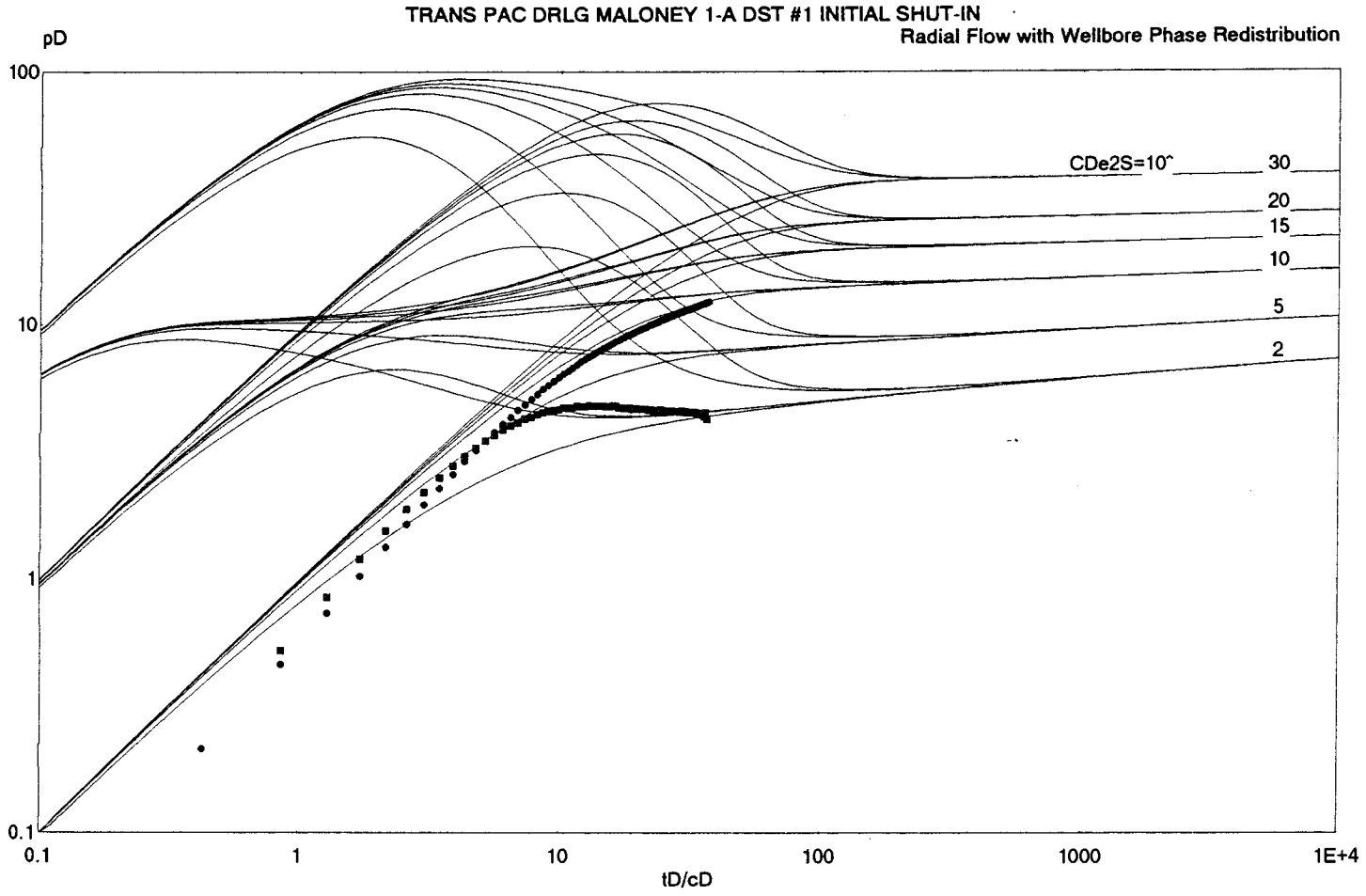
tD/CD 1hr: = 139.534

pD 1 psi = 0.0000028788

Calculated Values:

k = 0.534 md

kh = 3.2065 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 INITIAL SHUT-IN

Analysis Results: Radial Flow with Wellbore Phase Redistribution

Dimensionless Parameters:

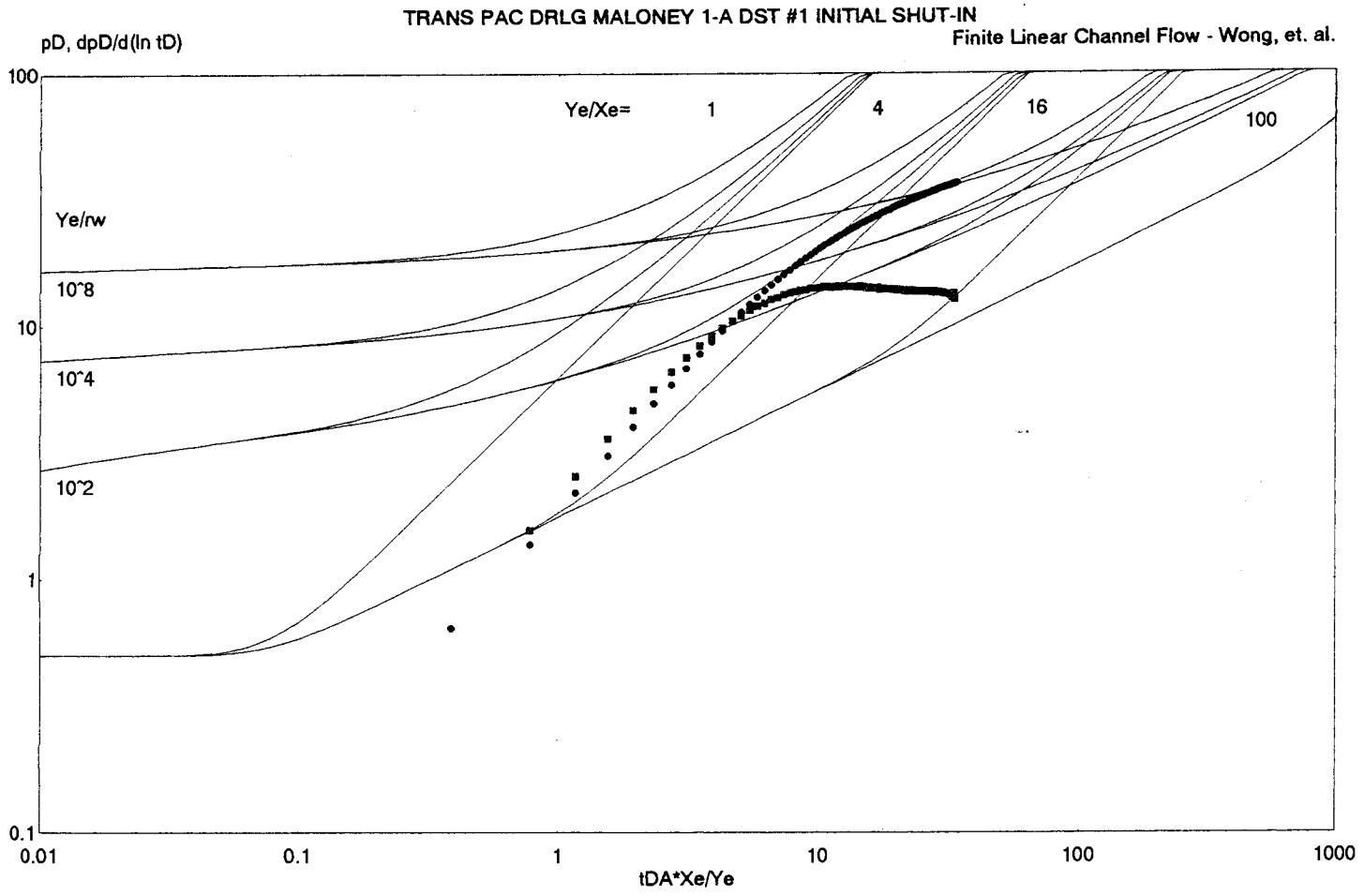
tD/CD 1hr: = 51.6793

pD 1 psi = 0.000025909

Calculated Values:

k = 4.810 md

kh = 28.859 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 INITIAL SHUT-IN

Analysis Results: Finite Linear Channel Flow - Wong, et. al.

Dimensionless Parameters:

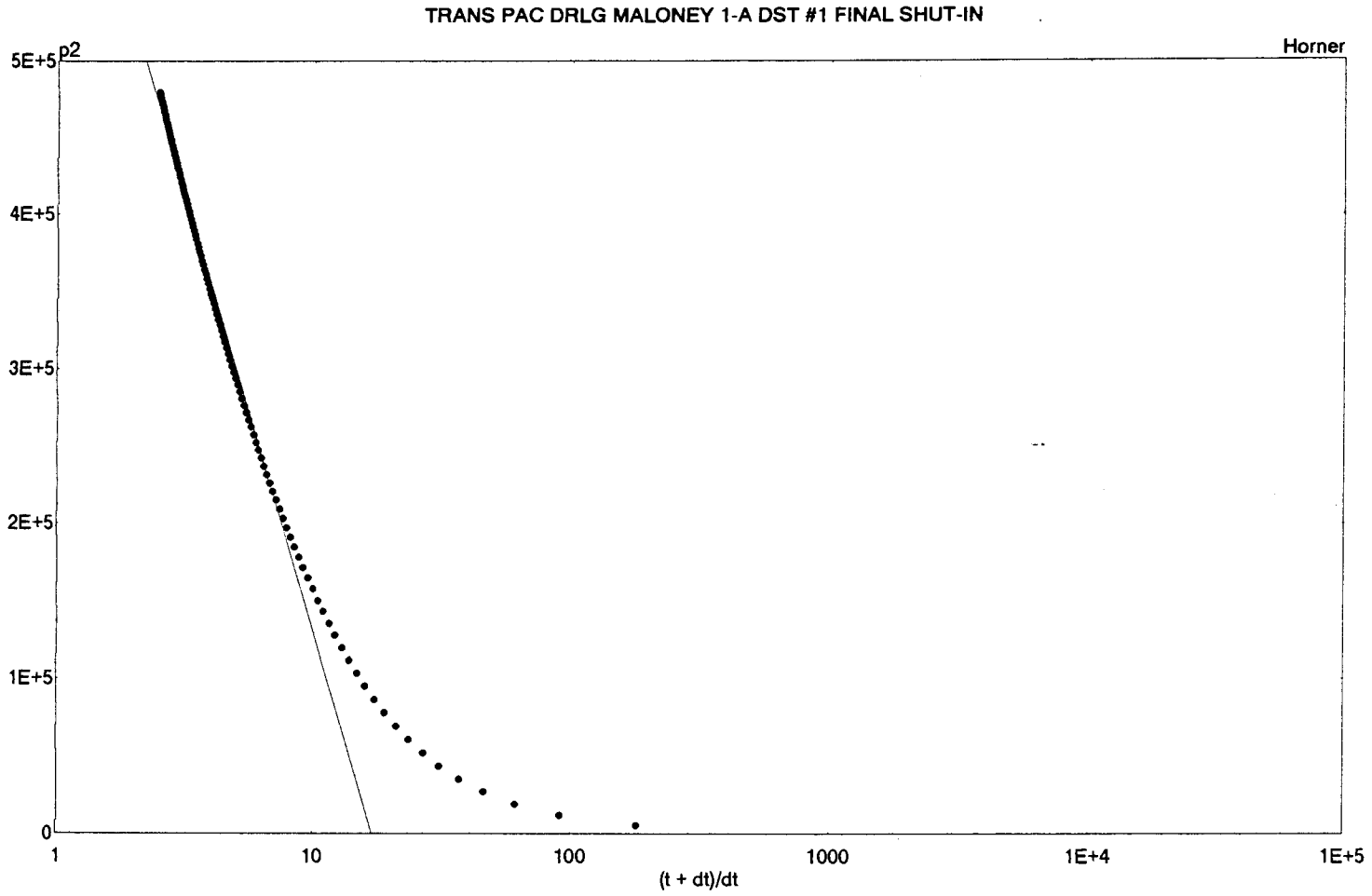
tD/CD 1hr: = 46.5114

pD 1 psi = 0.000077728

Calculated Values:

k = 14.43 md

kh = 86.577 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 FINAL SHUT-IN

Analysis Results: Horner

Parameters:

Slope = -564528

m(1 hr) = 470882

Prd Time: = 1.5 hr

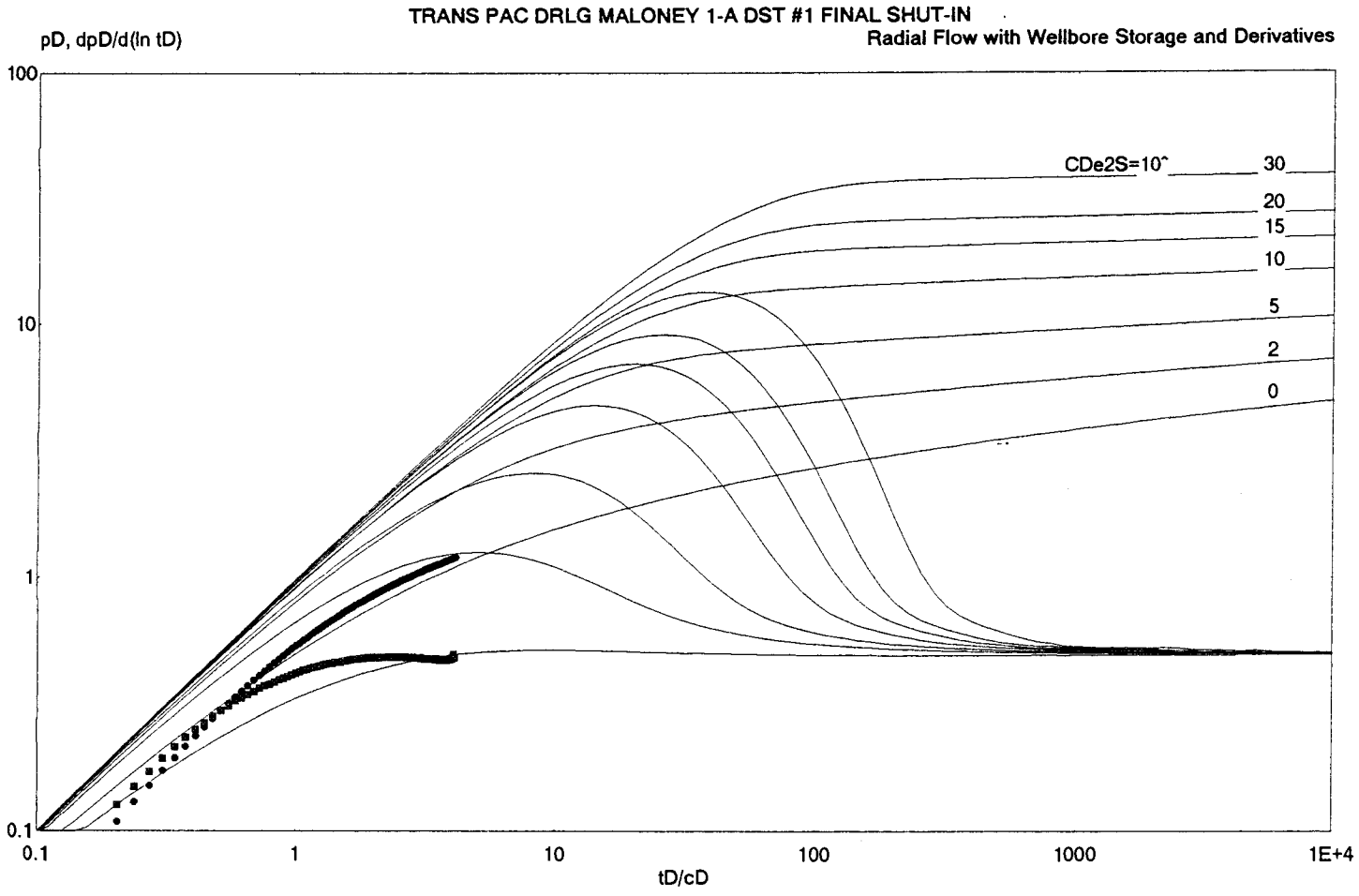
Calculated Values:

kh = 2.27155 md-ft

k = 0.37859 md

Skin = 1.0319

P* = 838.5 psi



TRANS PAC DRLG MALONEY 1-A DST #1 FINAL SHUT-IN

Analysis Results: Radial Flow with Wellbore Storage and Derivatives

Dimensionless Parameters:

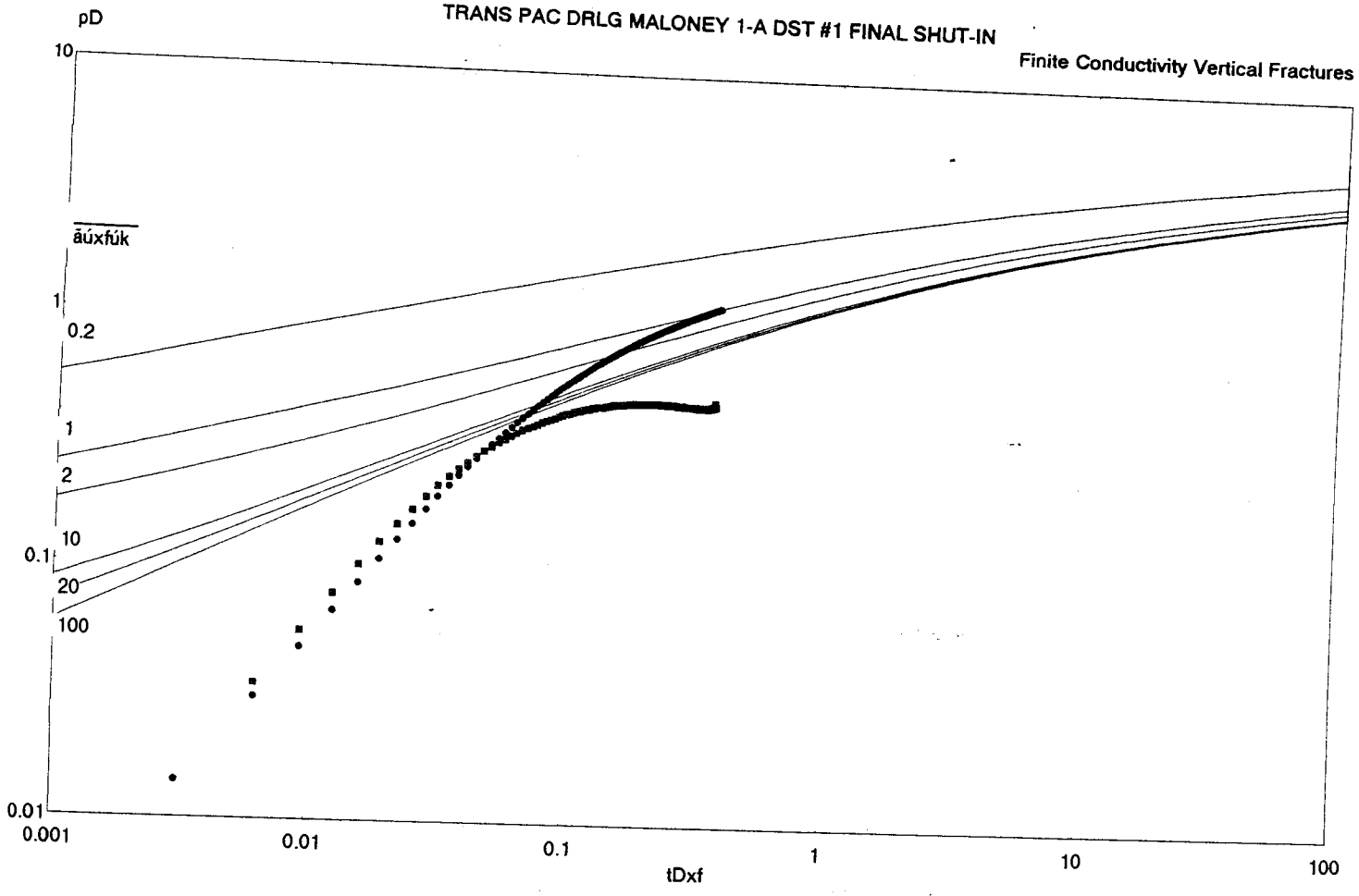
tD/CD 1hr: = 4.14979

pD 1 psi = 0.0000025065

Calculated Values:

k = 0.465 md

kh = 2.7919 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 FINAL SHUT-IN

Analysis Results: Finite Conductivity Vertical Fractures

Dimensionless Parameters:

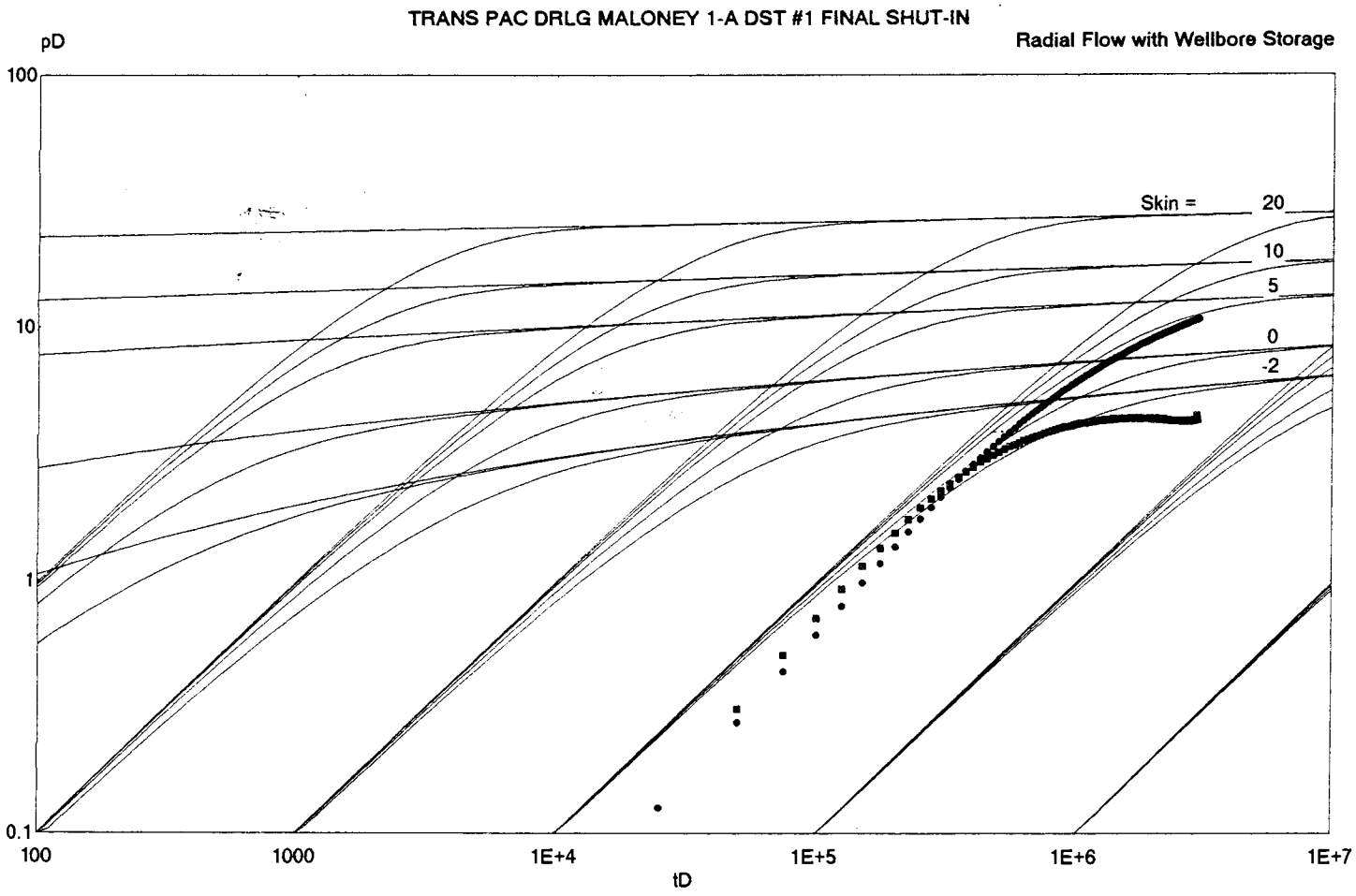
tD/CD 1hr: = 0.37348

pD 1 psi = 0.0000025065

Calculated Values:

k = 0.465 md

kh = 2.7919 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 FINAL SHUT-IN

Analysis Results: Radial Flow with Wellbore Storage

Dimensionless Parameters:

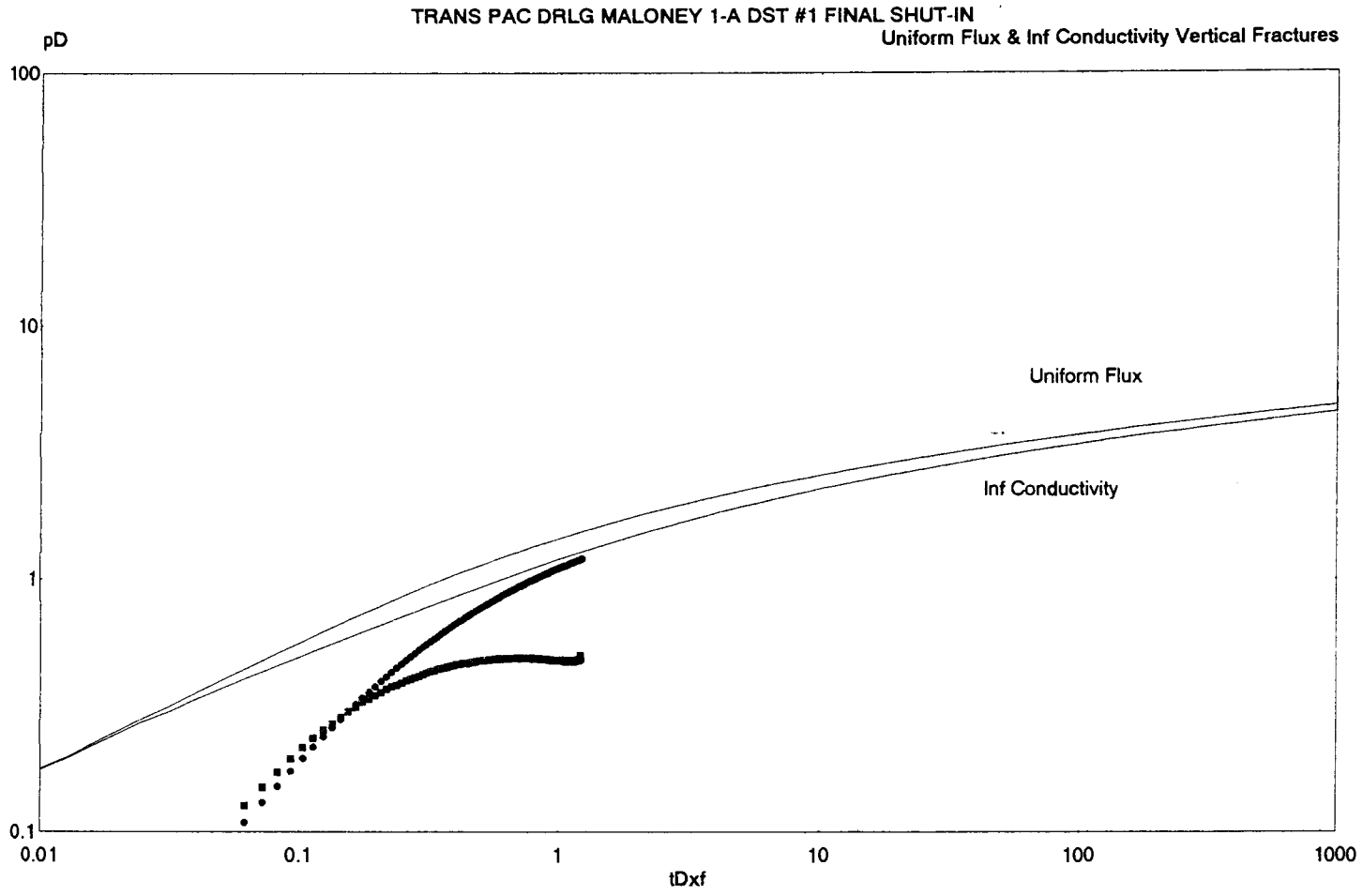
tD/CD 1hr: = 3.0252E+6

pD 1 psi = 0.000022559

Calculated Values:

k = 4.188 md

kh = 25.127 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 FINAL SHUT-IN

Analysis Results: Uniform Flux & Inf Conductivity Vertical Fractures

Dimensionless Parameters:

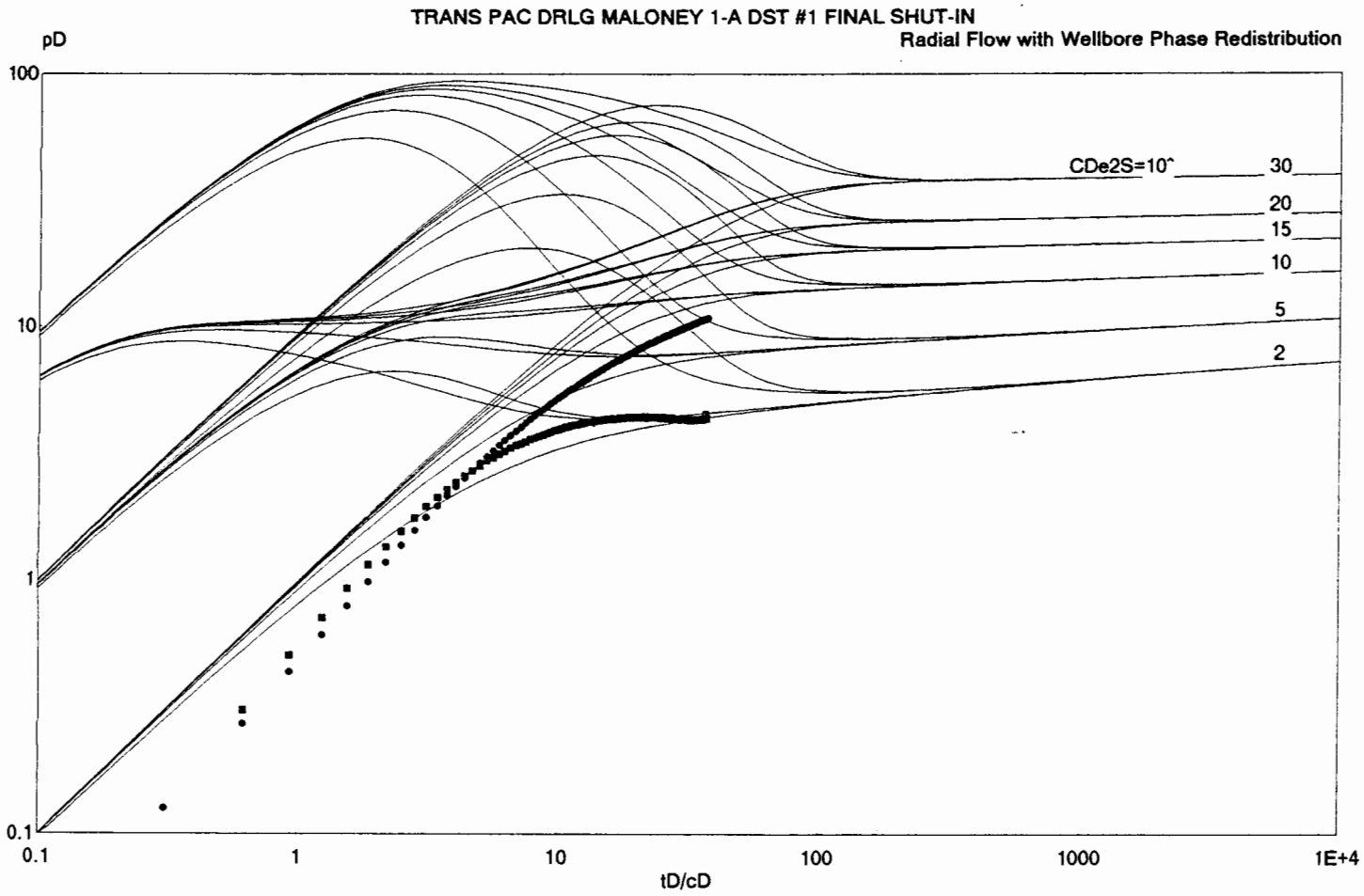
tD/CD 1hr: = 1.24494

pD 1 psi = 0.0000025065

Calculated Values:

k = 0.465 md

kh = 2.7919 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 FINAL SHUT-IN

Analysis Results: Radial Flow with Wellbore Phase Redistribution

Dimensionless Parameters:

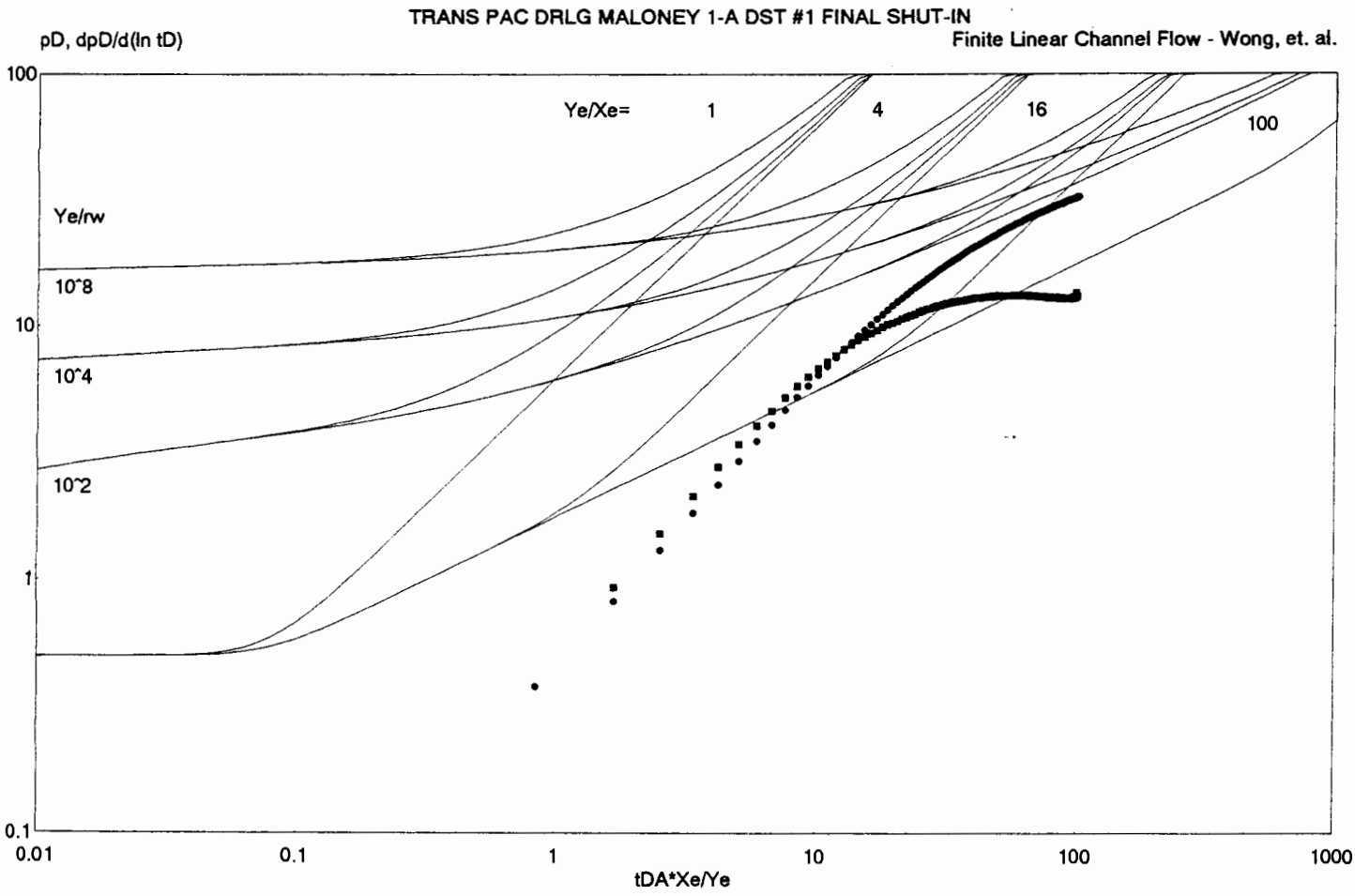
tD/CD 1hr: = 37.3481

pD 1 psi = 0.000022559

Calculated Values:

k = 4.188 md

kh = 25.127 md-ft



TRANS PAC DRLG MALONEY 1-A DST #1 FINAL SHUT-IN

Analysis Results: Finite Linear Channel Flow - Wong, et. al.

Dimensionless Parameters:

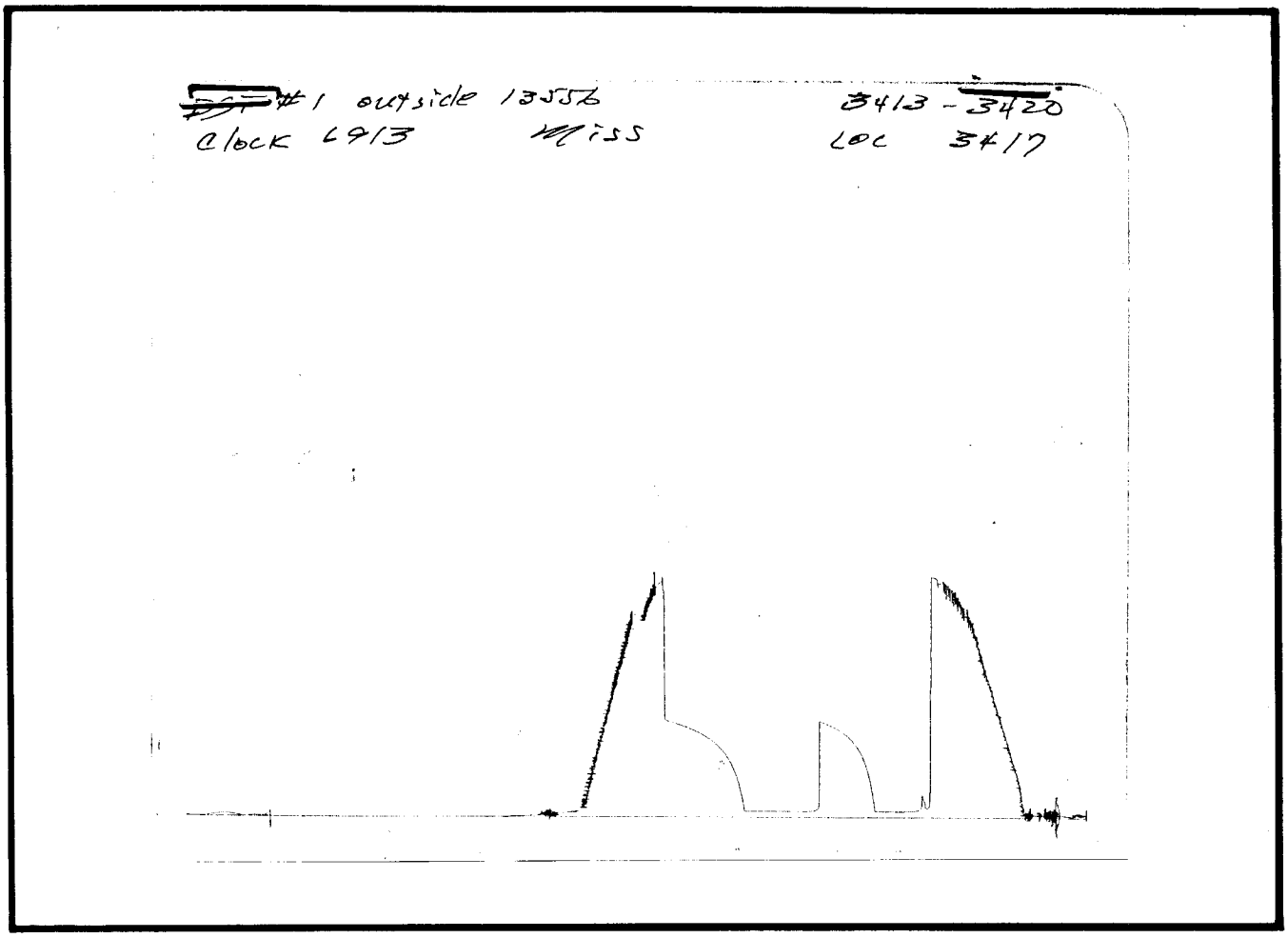
tD/CD 1hr: = 100.840

pD 1 psi = 0.000067677

Calculated Values:

k = 12.56 md

kh = 75.381 md-ft



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1776	1740	PSI
(B)	First Initial Flow Pressure	79	66	PSI
(C)	First Final Flow Pressure	55	39	PSI
(D)	Initial Closed-in Pressure	716	709	PSI
(E)	Second Initial Flow Pressure	55	23	PSI
(F)	Second Final Flow Pressure	49	36	PSI
(G)	Final Closed-in Pressure	724	719	PSI
(H)	Final Hydrostatic Mud	1735	1674	PSI

NOMENCLATURE

b	=	Approximate Radius of Investigation	Feet
b^1	=	Approximate Radius of Investigation (Net Pay Zone h^1)	Feet
D.R.	=	Damage Ratio	——
El	=	Elevation	Feet
GD	=	B.T. Gauge Depth (From Surface Reference)	Feet
h	=	Interval Tested	Feet
h^1	=	Net Pay Thickness	Feet
K	=	Permeability	md
K^1	=	Permeability (From Net Pay Zone h^1)	md
m	=	Slope Extrapolated Pressure Plot (Psi^2/cycle Gas)	psi/cycle
OF^1	=	Maximum Indicated Flow Rate	MCF/D
OF^2	=	Minimum Indicated Flow Rate	MCF/D
OF^3	=	Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF^4	=	Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P^S	=	Extrapolated Static Pressure	Psig.
P^F	=	Final Flow Pressure	Psig.
$P^{\circ T}$	=	Potentiometric Surface (Fresh Water*)	Feet
Q	=	Average Adjusted Production Rate During Test	bbls/day
Q^1	=	Theoretical Production w/Damage Removed	bbls/day
Q^g	=	Measured Gas Production Rate	MCF/D
R	=	Corrected Recovery	bbls
r^w	=	Radius of Well Bore	Feet
t	=	Flow Time	Minutes
t°	=	Total Flow Time	Minutes
T	=	Temperature Rankine	°R
Z	=	Compressibility Factor	——
u	=	Viscosity Gas or Liquid	CP
Log	=	Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.