RIG
TESTERS, INC.

COMPANY	: PATTERSON PETROLEUM LP.	TEST DATE	: 01/29/07
LEASE	: PADDY "19" STATE	D.S.T. NO.	: 1
WELL NO.	: # 1	TEST TKT. NO.	: 23951
FIELD	: MALJAMAR (E PADDOCK)	INVOICE NO.	: 22077
COUNTY/STATE	: LEA / NEW MEXICO	ORDER NO.	:

FORMATION	: PADDOCK	HOLE SIZE (in)	: 7.875	ANCHOR LENGTH (ft)	: 33
INTERVAL (ft)	: 5805 TO 5838	DRILL PIPE ID (in)	: 3.82	TOOL LENGTH (ft)	: 101
TOTAL DEPTH (ft)	: 5866	DRILL COLLAR ID(in)	: 2.25	TOOL O.D. (in)	: 5
ELEVATION (ft)	: 4093	DRILL COLLAR feet	: 850	PACKER SIZE (in)	: 7.00

RECORDER DATA
AK-1KUSTER / ZIPROBE

TOP RECORDER: IN		BOTTOM RECORDER: OUT	
RECORDER NO.	: 9634	RECORDER NO.	: 9635
CAPACITY (psi)	: 10000	CAPACITY (psi)	: 10000
DEPTH (ft)	: 5817	DEPTH (ft)	: 5818
CLOCK NO.	: 9634	CLOCK NO.	: 9635
DURATION (hrs)	: 99	DURATION (hrs)	: 99

MUD PROPERTIES

MUD TYPE	: CHEM / GEL	WATER LOSS (cc)	: 9.50	CHLORIDE PPM	: 4000
MUD WT. (#/gal)	: 8.60	FILTER CAKE (in)	: 1/32	RESISTIVITY(ohm-m)	: .750
		VISCOSITY (sec)	: 34		

EQUIPMENT DATA

CONVENTIONAL	: NO	ROTARY JARS	: YES	MULTIFLOW	: NO
STRADDLE	: YES	NO. OF PACKERS	: 3	MILEAGE	: NO
SELECTIVE ZONE	: NO	SAFETY JOINT	: YES	OPERATOR TIME	: NO
SAMPLE CHAMBER	: YES	CIRCULATING SUB	: YES	OTHER	: YES
GAS ANALYSIS	: YES	REVERSED OUT	: YES	ZI ELECTRONICS (2)	
SUCCESSFUL	: YES	PACKER FAILURE	: NO	TOOL PLUG	: NO

DECIDED NOT TO TEST : NO

FAIL TO REACH BOTTOM : NO

TIME INTERVAL DATA (min)

TOOL OPENED	: 12:05 PM	TOTAL TEST TIME:	285
INITIAL FLOW	: 30	INITIAL SHUT-IN:	61
SECOND FLOW	: 55	SECOND SHUT-IN	: 139
THIRD FLOW	:	THIRD SHUT IN	:

TEST TOOL OPERATOR: DON TERHUNE

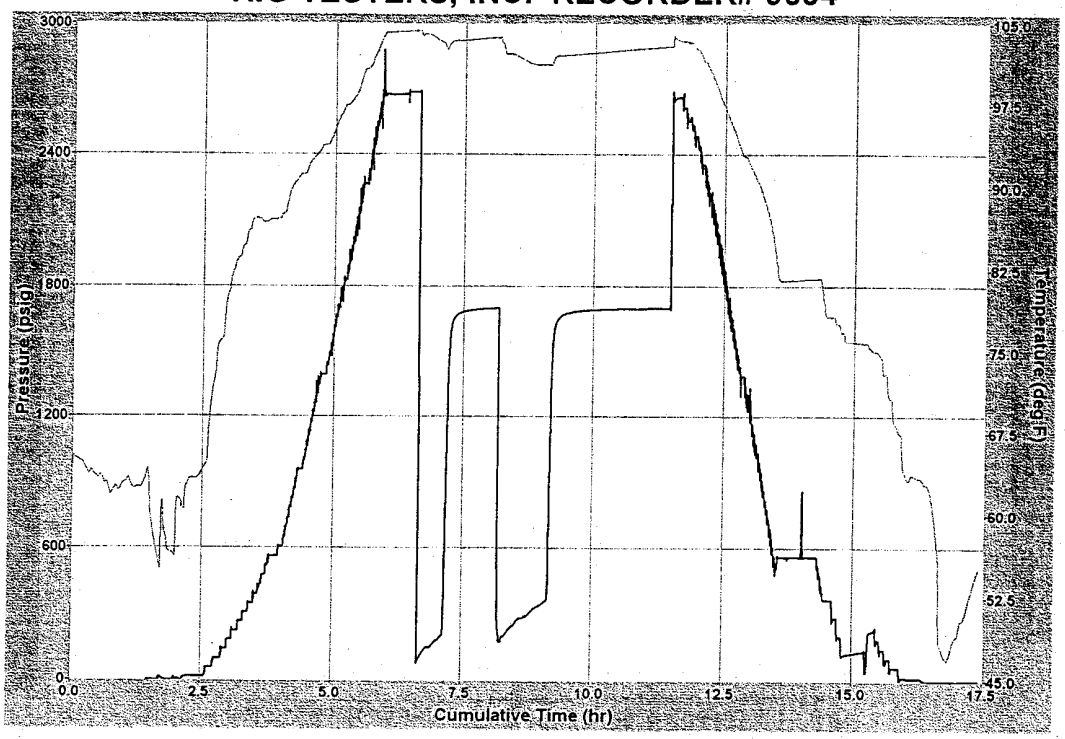
RIG
TESTERS, INC.

PATTERSON PETROLEUM LP.

PADDY "19" STATE # 1
D.S.T. NO. :1

		CORRECTED READING	FIELD READING
A	INITIAL HYDROSTATIC:	2697 PSI	2697 PSI
B-1	INITIAL FIRST FLOW :	93 PSI	93 PSI
B-2	FINAL FIRST FLOW :	221 PSI	221 PSI
C	FIRST SHUT-IN :	1713 PSI	1713 PSI
D-1	INITIAL SECOND FLOW:	191 PSI	191 PSI
D-2	FINAL SECOND FLOW :	380 PSI	380 PSI
E	SECOND SHUT-IN :	1714 PSI	1714 PSI
H	FINAL HYDROSTATIC :	2674 PSI	2672 PSI

RIG TESTERS, INC. RECORDER# 9634



RECOVERY DATA

B.H. TEMP. (deg F) : 104

PIPE RECOVERY

GAS TO SURFACE 24 MIN. INTO FIRST FLOW PERIOD
PULLED TO FLUID @ 1175 FT. & REVERSED IN PIT AN EST;
1000 FT. OF FREE OIL (36 GRAVITY @ 60 DEGREES)
175 FT. OIL CUT DRLG. FLUID (40% OIL)-BELOW CIRC SUB

SAMPLE CHAMBER

350 LBS. OF PRESSURE
1.02 CU. FT. OF GAS
400 CC'S OF FREE OIL
36 GRAVITY @ 60 DEGREES
600 CC'S OF DRLG. FLUID
5,000 MG/L CHLORIDES
.60 OHMS @ 85 DEGREES

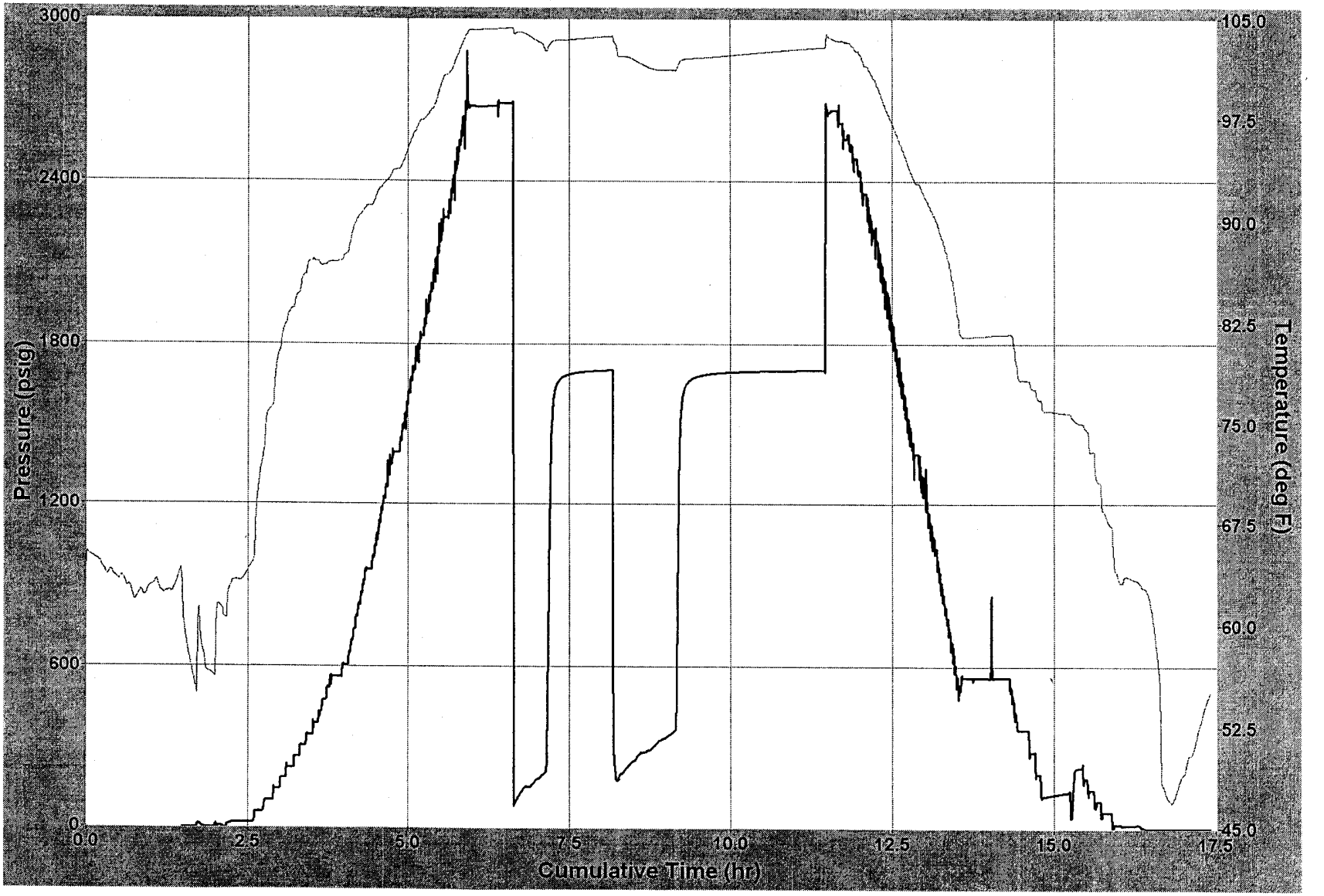
TEST REMARKS

TOOL OPENED WITH FAIR BLOW ON 1/4" CHOKE, 10 LBS. IN 10 MIN., 21 LBS. IN 20 MIN. & HAD GAS TO SURFACE IN 24 MIN. WITH 27 LBS.(61 MCFPD) ON 1/4" AT END OF 30 MIN. FIRST FLOW. REOPENED TOOL ON 1/4" CHOKE WITH 14 LBS.(42 MCFPD) IN 10 MIN., 20 LBS.(51 MCFPD) IN 20 MIN., 24.5 LBS.(57 MCFPD) IN 30 MIN., 29 LBS.(64 MCFPD) IN 40 MIN., 30 LBS.(65 MCFPD) IN 50 MIN. & 27 LBS. (61 MCFPD) AT END OF THE 60 MIN. FINAL FLOW PERIOD.

Company Name	PATTERSON PETROLEUM LP.
Well Name	PADDY "19" STATE #1
Type of Test	DST #1 (5805-5838 FT.; PADDOCK)
Date(s) of Test	1-29-07

zed.i solutions

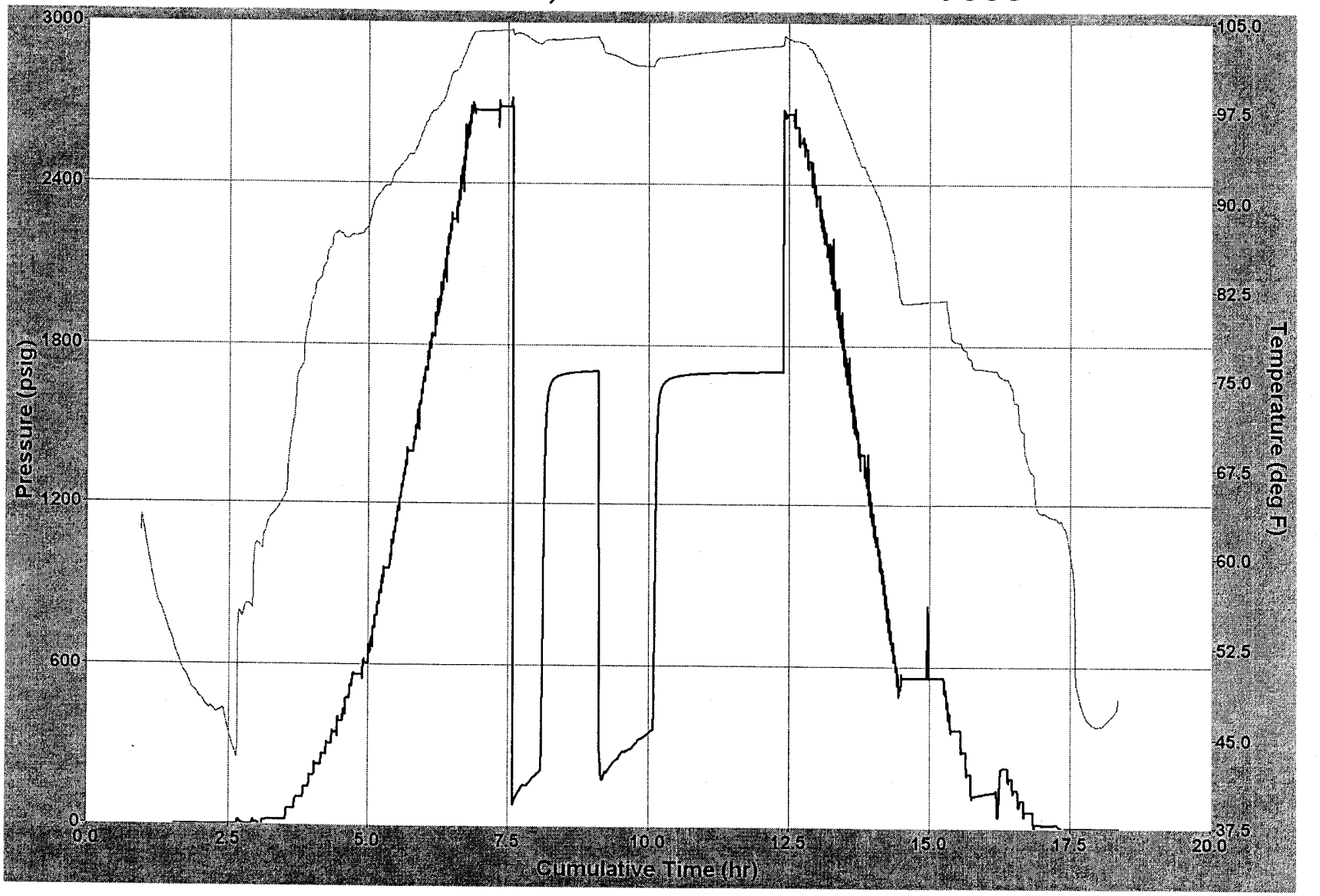
RIG TESTERS, INC. RECORDER# 9634



Company Name	PATTERSON PETROLEUM LP.
Well Name	PADDY "19" STATE #1
Type of Test	DST #1 (5805-5838 FT.; PADDOCK)
Date(s) of Test	1-29-07

zed.i solutions

RIG TESTERS, INC. RECORDER# 9635



CAPROCK LABORATORIES, INC.
3312 BANKHEAD HIGHWAY
MIDLAND, TEXAS 79701

CHROMATOGRAPHIC ANALYSIS

COMPANY:	RIG TESTERS	JOB #:	0701104
SAMPLE ID:	PADDY 19 STATE #1	SAMPLE #:	1D2301MOU3
SAMPLE TYPE:	SPOT	DATE ON:	20070129
STATION:	PATTERSON PETROLEUM	DATE OFF:	20070129
BASE PRESSURE,PSIA:	14.650	TIME ON:	1230
RANAREX GRAVITY:		TIME OFF:	1230
SAMPLE PRESS.,psig:	20.0	SAMPLED BY:	CLIENT
GAS TEMP. F:		CYLINDER #:	000001
ANALYSIS DATE:	20070131	SAMPLE USE * :	A

ANALYSIS COMMENTS: DST #1 5805-5838, PADDOCK ZONE, LEA CO., N. MEX.

COMPONENT	MOLE %	GPM
HYDROGEN SULFIDE	0.0000	
NITROGEN	1.5129	
OXYGEN	0.0000	
METHANE	54.0461	
CARBON DIOXIDE	0.9202	
ETHANE	20.4756	5.4462
PROPANE	13.6468	3.7396
ISO-BUTANE	1.6104	0.5239
N-BUTANE	4.1651	1.3060
ISO-PENTANE	1.0358	0.3769
N-PENTANE	1.0512	0.3786
HEXANES	0.7431	0.3039
HEPTANES +	0.7928	0.3637
TOTAL	100.0000	12.4390

HEATING VALUE

BTU DRY	1597.2
BTU SATURATED	1569.4
COMPRESSIBILITY, Z	0.9932
RELATIVE DENSITY	0.9658
AVE. MOLE WEIGHT	27.9717
H2S, TUTWEILER, GR./100 CUBIC FEET	0.0
28 # GASOLINE	6.8767

BASE CONDITIONS, 14.65 PSIA @ 60 DEGREES FAHRENHEIT

* A = ACCOUNTABLE, O = OPERATIONAL

PATTERSON PETROLEUM LP.

RIG TESTERS, INC.

PADDY "19" STATE # 1
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634 RECORDER CAPACITY : 10000 psi RECORDER DEPTH : 5817 ft

ELAPSED TIME	TOTAL FLOW TIME, T	INCREMENTAL SHUT-IN TIME,DT	(T+DT)/DT (HORNER)	PRESSURE	DELTA P
---MIN----	---MIN----	---MIN----	----------	---PSIG---	---PSIG---
			FIRST FLOW		
.0	.0			93.40	.00
2.0	2.0			113.37	19.97
4.0	4.0			128.27	34.87
6.0	6.0			139.90	46.50
8.0	8.0			152.03	58.63
10.0	10.0			163.31	69.91
12.0	12.0			165.00	71.60
14.0	14.0			165.12	71.72
16.0	16.0			170.38	76.98
18.0	18.0			179.10	85.70
20.0	20.0			189.71	96.31
22.0	22.0			196.70	103.30
24.0	24.0			201.20	107.80
26.0	26.0			209.67	116.27
28.0	28.0			215.85	122.45
29.8	29.8			221.70	128.30
			FIRST SHUT-IN		
29.8	29.8	.00	.000	221.70	.00
30.3	29.8	.50	60.520	346.66	124.96
30.8	29.8	1.00	30.760	495.42	273.72
31.3	29.8	1.50	20.840	631.00	409.30
31.8	29.8	2.00	15.880	783.95	562.25
32.3	29.8	2.50	12.904	923.56	701.86
32.8	29.8	3.00	10.920	1085.60	863.90
33.3	29.8	3.50	9.503	1236.02	1014.32
33.8	29.8	4.00	8.440	1351.63	1129.93
34.3	29.8	4.50	7.613	1431.00	1209.30
34.8	29.8	5.00	6.952	1495.12	1273.42
35.8	29.8	6.00	5.960	1570.10	1348.40
36.8	29.8	7.00	5.251	1612.87	1391.17
37.8	29.8	8.00	4.720	1636.77	1415.07
38.8	29.8	9.00	4.307	1651.90	1430.20
39.8	29.8	10.00	3.976	1662.58	1440.88
41.8	29.8	12.00	3.480	1675.50	1453.80
43.8	29.8	14.00	3.126	1683.48	1461.78
45.8	29.8	16.00	2.860	1688.98	1467.28
47.8	29.8	18.00	2.653	1692.90	1471.20
49.8	29.8	20.00	2.488	1696.03	1474.33
52.8	29.8	23.00	2.294	1699.53	1477.83
55.8	29.8	26.00	2.145	1702.21	1480.51
58.8	29.8	29.00	2.026	1704.32	1482.62
61.8	29.8	32.00	1.930	1706.01	1484.31
64.8	29.8	35.00	1.850	1707.50	1485.80
67.8	29.8	38.00	1.783	1708.70	1487.00

PATTERSON PETROLEUM LP.

RIG TESTERS, INC.

PADDY "19" STATE # 1
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634 RECORDER CAPACITY : 10000 psi RECORDER DEPTH : 5817 ft

ELAPSED TIME	TOTAL FLOW TIME, T	INCREMENTAL SHUT-IN TIME,DT	(T+DT)/DT (HORNER)	PRESSURE	DELTA P
---MIN----	---MIN----	---MIN----	----------	---PSIG---	---PSIG---
		FIRST SHUT-IN			
70.8	29.8	41.00	1.726	1709.70	1488.00
73.8	29.8	44.00	1.676	1710.50	1488.80
76.8	29.8	47.00	1.633	1711.30	1489.60
79.8	29.8	50.00	1.595	1712.00	1490.30
82.8	29.8	53.00	1.562	1712.51	1490.81
85.8	29.8	56.00	1.531	1713.10	1491.40
88.8	29.8	59.00	1.504	1713.50	1491.80
91.3	29.8	61.50	1.484	1713.90	1492.20
		SECOND FLOW			
94.5	33.0			191.50	.00
97.5	36.0			208.60	17.10
100.5	39.0			217.90	26.40
103.5	42.0			235.50	44.00
106.5	45.0			249.60	58.10
109.5	48.0			262.30	70.80
112.5	51.0			269.40	77.90
115.5	54.0			289.50	98.00
118.5	57.0			296.10	104.60
121.5	60.0			297.70	106.20
124.5	63.0			305.40	113.90
127.5	66.0			311.80	120.30
130.5	69.0			324.70	133.20
133.5	72.0			338.10	146.60
136.5	75.0			345.50	154.00
139.5	78.0			351.00	159.50
142.5	81.0			358.90	167.40
145.5	84.0			368.50	177.00
148.5	87.0			377.00	185.50
149.8	88.3			380.70	189.20
		SECOND SHUT-IN			
149.8	88.3	.00	.000	380.70	.00
150.8	88.3	1.00	89.260	665.72	285.02
151.8	88.3	2.00	45.130	1013.92	633.22
152.8	88.3	3.00	30.420	1316.90	936.20
153.8	88.3	4.00	23.065	1481.65	1100.95
154.8	88.3	5.00	18.652	1559.09	1178.39
155.8	88.3	6.00	15.710	1600.50	1219.80
156.8	88.3	7.00	13.609	1626.01	1245.31

PATTERSON PETROLEUM LP.

RIG TESTERS, INC.

PADDY "19" STATE # 1
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634 RECORDER CAPACITY : 10000 psi RECORDER DEPTH : 5817 ft

ELAPSED TIME	TOTAL FLOW TIME, T	INCREMENTAL SHUT-IN TIME,DT	(T+DT)/DT (HORNER)	PRESSURE	DELTA P
---MIN----	---MIN----	---MIN----	----------	---PSIG---	---PSIG---
		SECOND SHUT-IN			
157.8	88.3	8.00	12.033	1641.46	1260.76
158.8	88.3	9.00	10.807	1652.20	1271.50
159.8	88.3	10.00	9.826	1660.21	1279.51
161.8	88.3	12.00	8.355	1670.50	1289.80
163.8	88.3	14.00	7.304	1677.56	1296.86
165.8	88.3	16.00	6.516	1682.45	1301.75
167.8	88.3	18.00	5.903	1686.10	1305.40
169.8	88.3	20.00	5.413	1689.03	1308.33
172.8	88.3	23.00	4.837	1692.53	1311.83
175.8	88.3	26.00	4.395	1695.23	1314.53
178.8	88.3	29.00	4.043	1697.60	1316.90
181.8	88.3	32.00	3.758	1699.22	1318.52
184.8	88.3	35.00	3.522	1700.81	1320.11
187.8	88.3	38.00	3.323	1702.11	1321.41
194.8	88.3	45.00	2.961	1704.50	1323.80
199.8	88.3	50.00	2.765	1705.81	1325.11
204.8	88.3	55.00	2.605	1706.91	1326.21
209.8	88.3	60.00	2.471	1707.90	1327.20
214.8	88.3	65.00	2.358	1708.70	1328.00
219.8	88.3	70.00	2.261	1709.40	1328.70
224.8	88.3	75.00	2.177	1710.00	1329.30
229.8	88.3	80.00	2.103	1710.60	1329.90
234.8	88.3	85.00	2.038	1711.01	1330.31
239.8	88.3	90.00	1.981	1711.50	1330.80
244.8	88.3	95.00	1.929	1712.00	1331.30
249.8	88.3	100.00	1.883	1712.30	1331.60
254.8	88.3	105.00	1.841	1712.60	1331.90
259.8	88.3	110.00	1.802	1713.00	1332.30
264.8	88.3	115.00	1.767	1713.30	1332.60
269.8	88.3	120.00	1.736	1713.60	1332.90
274.8	88.3	125.00	1.706	1713.80	1333.10
279.8	88.3	130.00	1.679	1714.00	1333.30
284.8	88.3	135.00	1.654	1714.30	1333.60
288.7	88.3	138.96	1.635	1714.40	1333.70

REMARKS

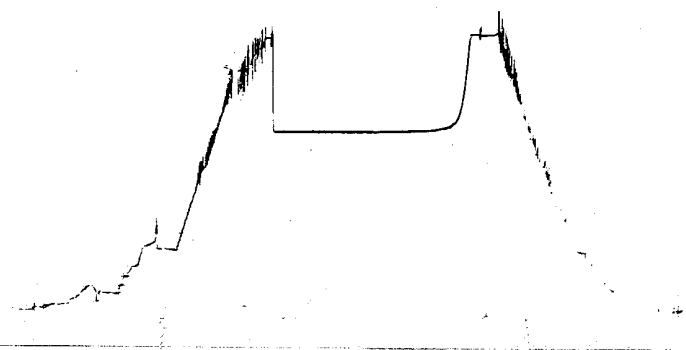
THE INCREMENTAL DATA, CHART AND ANALYSIS ARE FROM THE ELECTRONIC RECORDER
PLEASE REFER TO DERIVATIVE DIAGNOSTICS ANALYSIS FOR FURTHER INFORMATION
(PRESSURE ASCII FILE IS AVAILABLE ON DISKETTE UPON REQUEST)

RIG
TESTERS, INC.

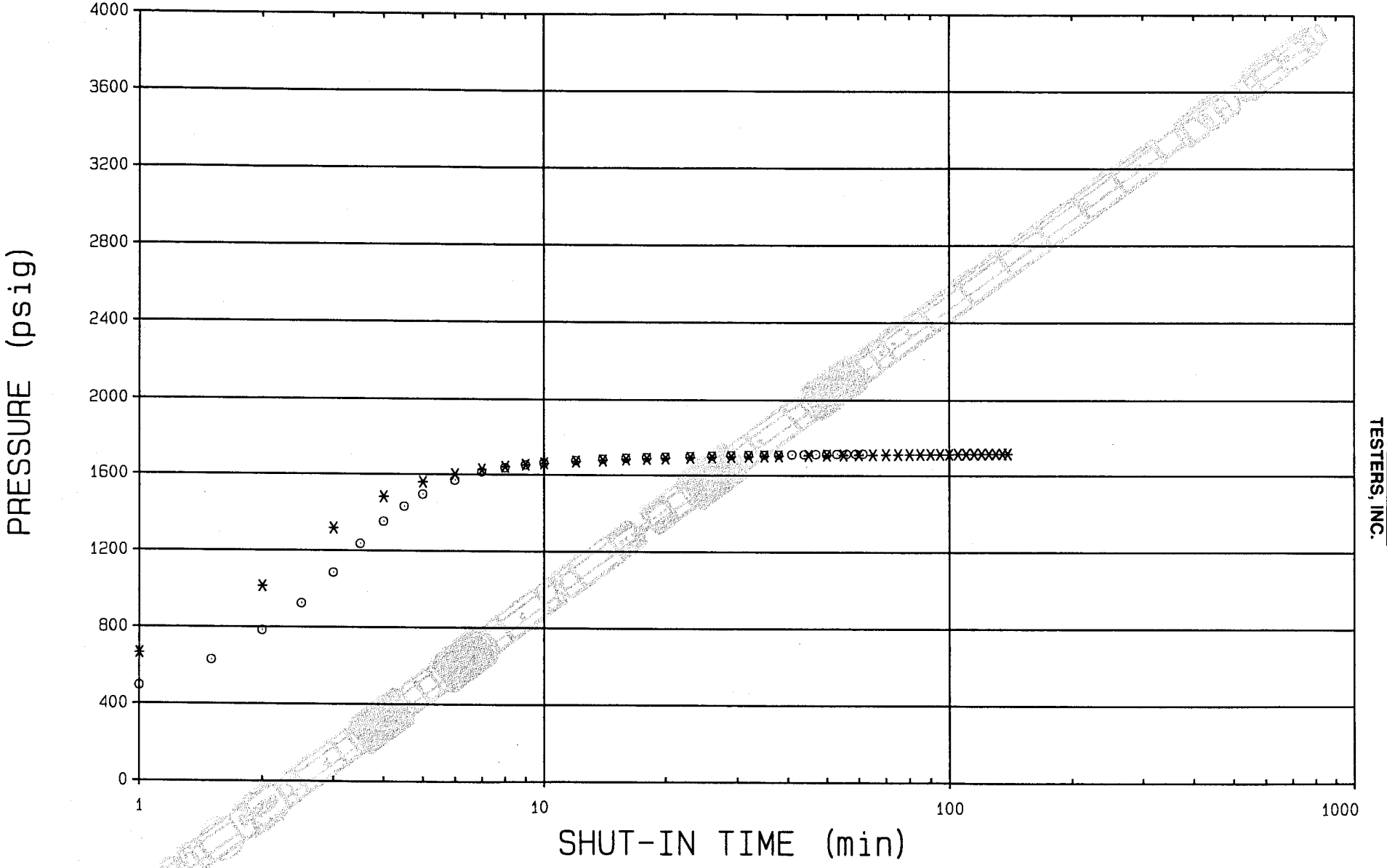
TKT - 23951 REC - 13709 WT - 7350

AK-1 KUSTER 24 HR. CLOCK

STRADDLE TEST : BLANK-OFF CHART



PRESSURE TIME



RIG TESTERS, INC.

PATTERSON PETROLEUM LP.

PADDY "19" STATE # 1

⊙ FIRST SHUT-IN

* SECOND SHUT-IN

RIG
TESTERS, INC.

Well Test Report

RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM

PATTERSON PETROLEUM LP. PADDY "19" STATE #1

1

Well identification

Well ID	PADDY "19" ST.#1	Well location	S. MALJAMAR
County/District	LEA	State, Country	NEW MEXICO
Company	PATTERSON PETR.	Division	SNYDER

Fluid properties

Prod/Inj fluid	OIL	GOR	400:1
Water cut	0%	Condensate yield	UNKNOWN
API gravity	36.0	Gas spec. grav.	0.7
Viscosity	1.5512 cp	Pseudo-critical T	382.97 deg R
Pseudo-critical P	664.37 psia	H2S mole fraction	UNKNOWN
CO2 mole fraction	UNKNOWN	N2 mole fraction	UNKNOWN
Compressibility(t)	16.142 e-6/psi	Formation vol factor	1.2118 RB/STB

Reservoir properties

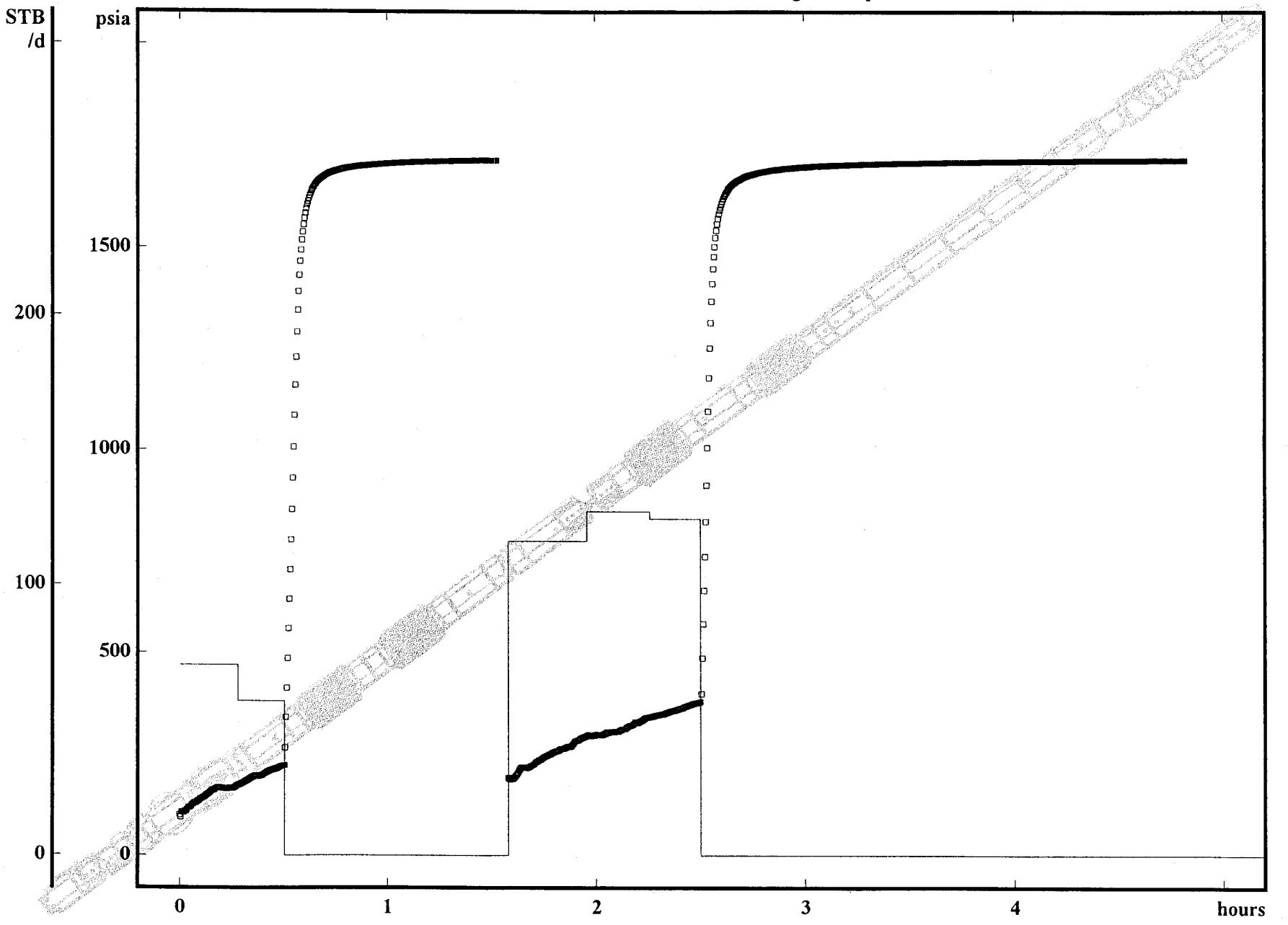
Porosity	0.12 frac	Formation thickness	25 ft
Wellbore radius	0.32813 ft	Prod-observer distance	N/A
Water-Oil Contact	UNKNOWN	Gas-Oil Contact	N/A
Gas-Water Contact	N/A	Rock compressibility	
Reservoir temperature	104 deg F	Pressure for properties	1722 psia

Comments

THE DERIVATIVES INDICATE A RESERVOIR WITH GOOD PERMEABILITY AND HIGH SKIN. THE INITIAL SHUT-IN PERIOD WAS IN TRANSITION TOWARDS BUT HAD NOT QUITE REACHED RADIAL FLOW WHICH MAY MAKES ITS CALCULATIONS (EXTRAPOLATION, PERMEABILITY AND SKIN) SUBJECT TO QUESTION. HOWEVER, THE FINAL SHUT-IN HAD ACHIEVED TRUE RADIAL FLOW REGIME AS INDICATED BY THE FLATTENING ON THE DERIVATIVE CURVE. THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 25 FT. OF NET PAY AND AN AVERAGE (TIME WEIGHTED) PRODUCTION OF 122 BBLS. OF OIL FOR THE FINAL FLOW. THE RATES WERE BASED ON DENSITY OF FLUID RECOVERED VS. FLOWING PRESSURES. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO APPROX. 150 FT. FROM WELLBORE.

PATTERSON PETROLEUM LP. PADDY "19" STATE #1

Pressure and flow rate vs time during test sequence

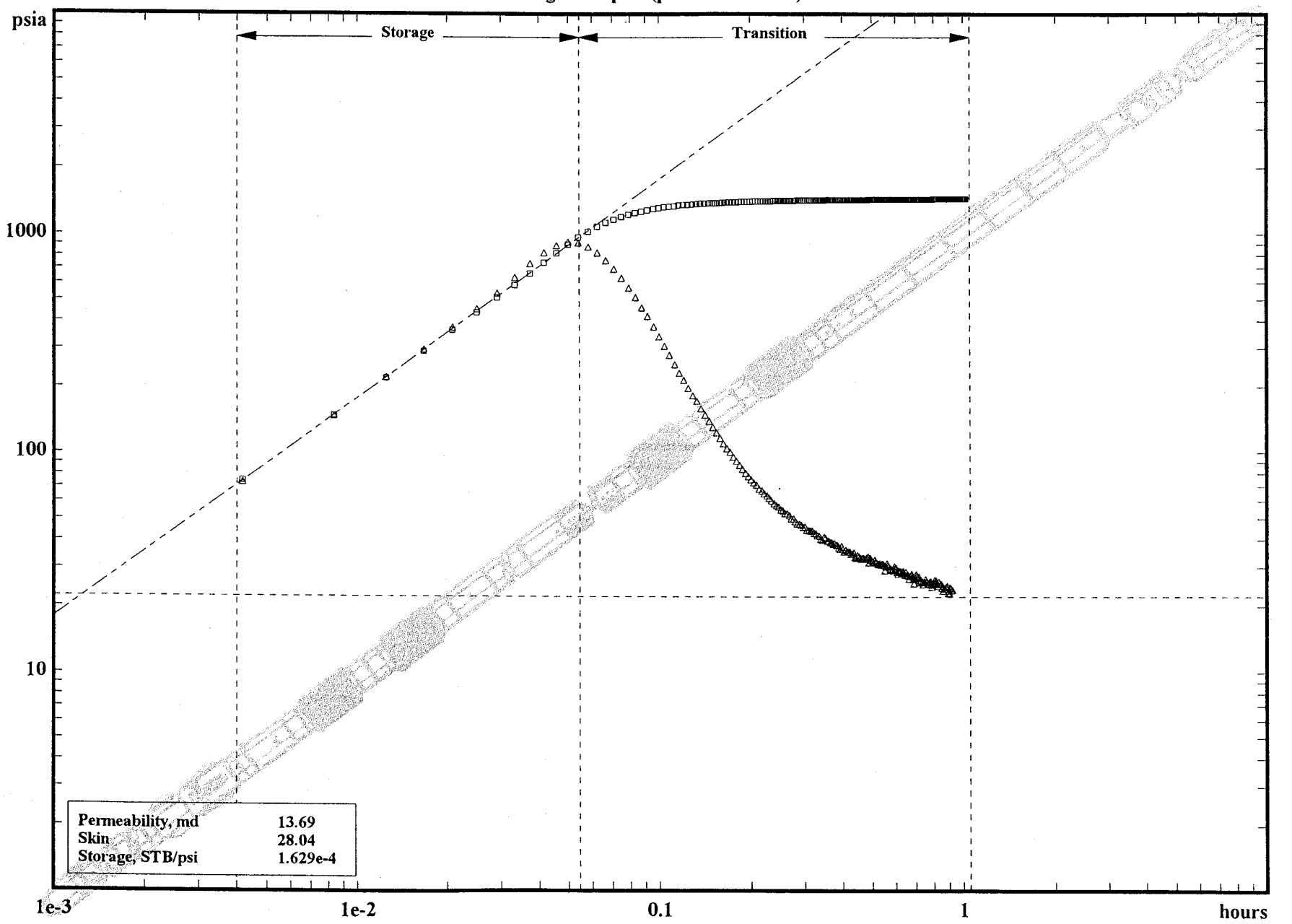


DST #1 5805 - 5838 FT.; PADDOCK

RIG TESTERS, INC.

PATTERSON PETROLEUM LP. PADDY "19" STATE #1

Diagnostic plot (pressure & time)

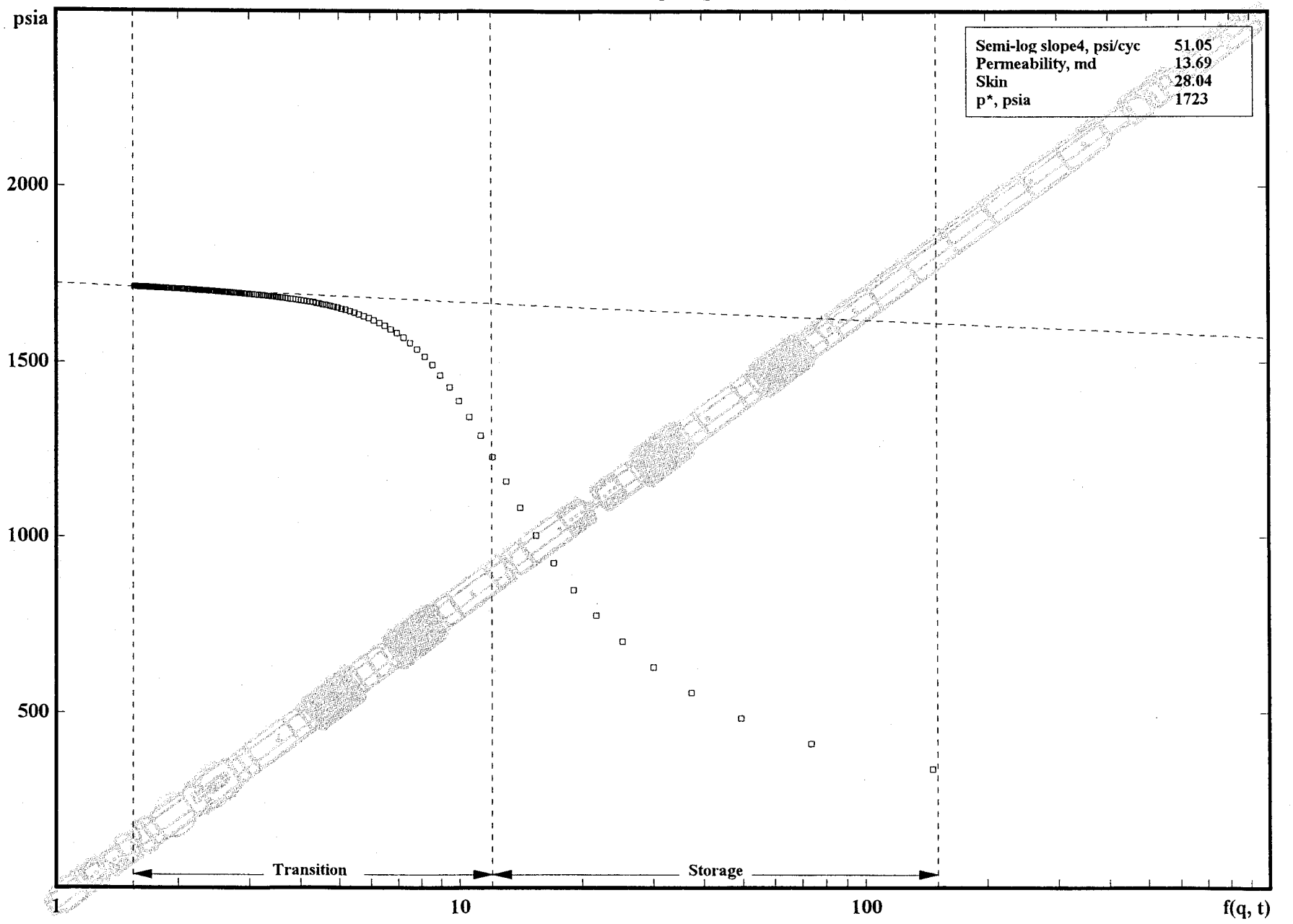


INITIAL SHUT-IN PERIOD DST#1

RIG TESTERS, INC.

PATTERSON PETROLEUM LP. PADDY "19" STATE #1

Variable rate Horner plot (pressure & time)

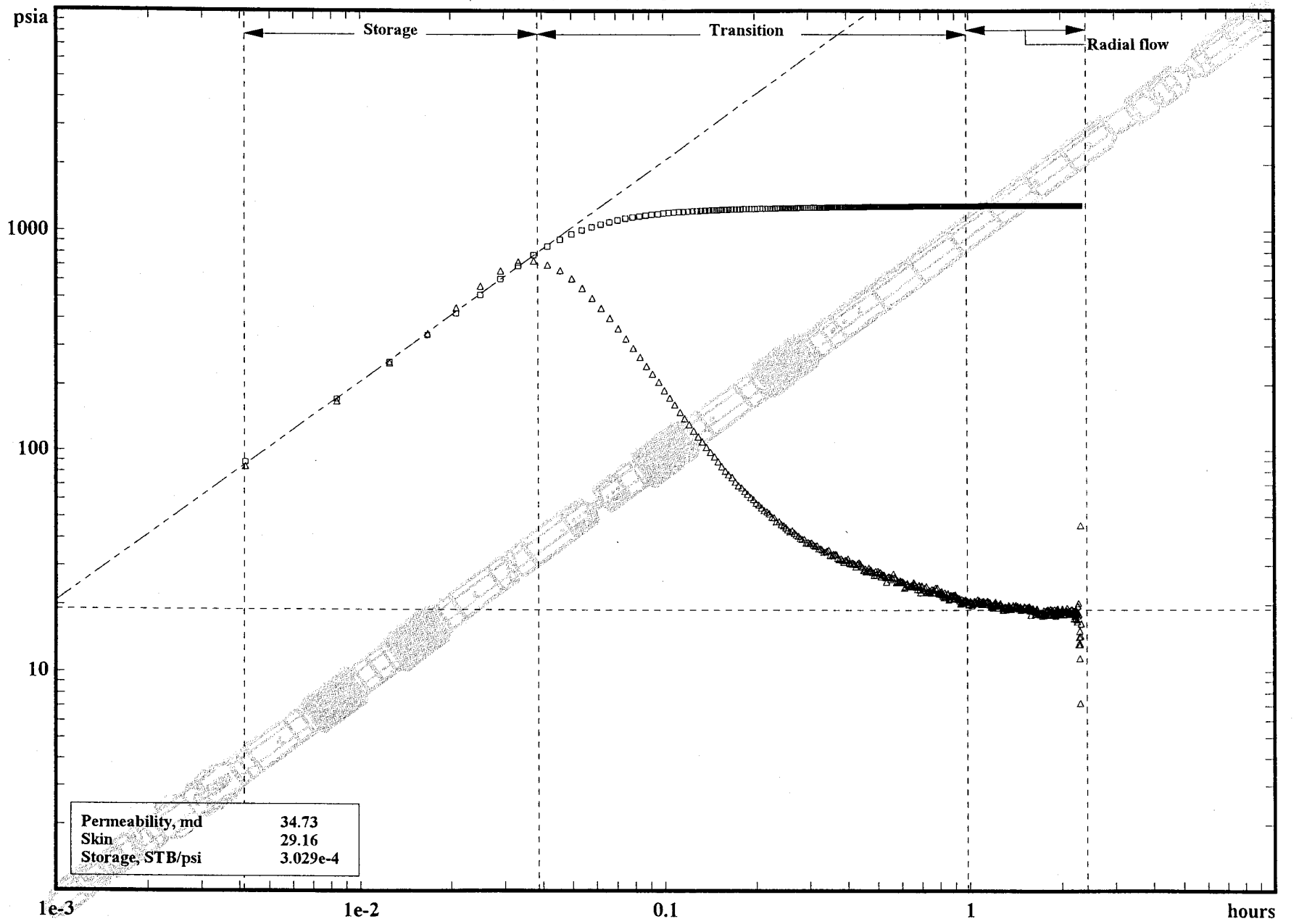


INITIAL SHUT-IN PERIOD DST#1

RIG TESTERS, INC.

PATTERSON PETROLEUM LP. PADDY "19" STATE #1

Diagnostic plot (pressure & time)

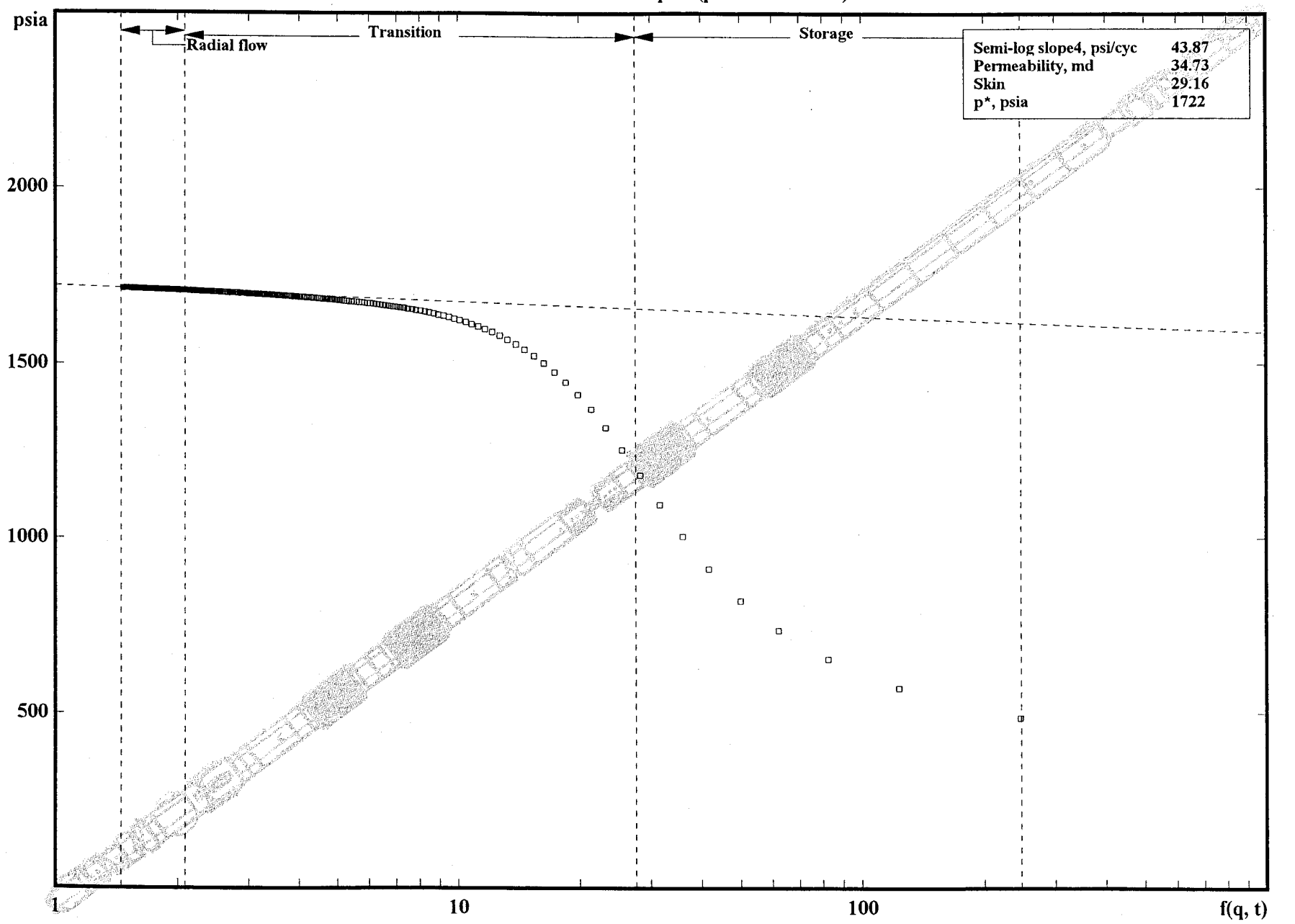


RIG TESTERS, INC.

FINAL SHUT-IN PERIOD DST#1

PATTERSON PETROLEUM LP. PADDY "19" STATE #1

Variable rate Horner plot (pressure & time)

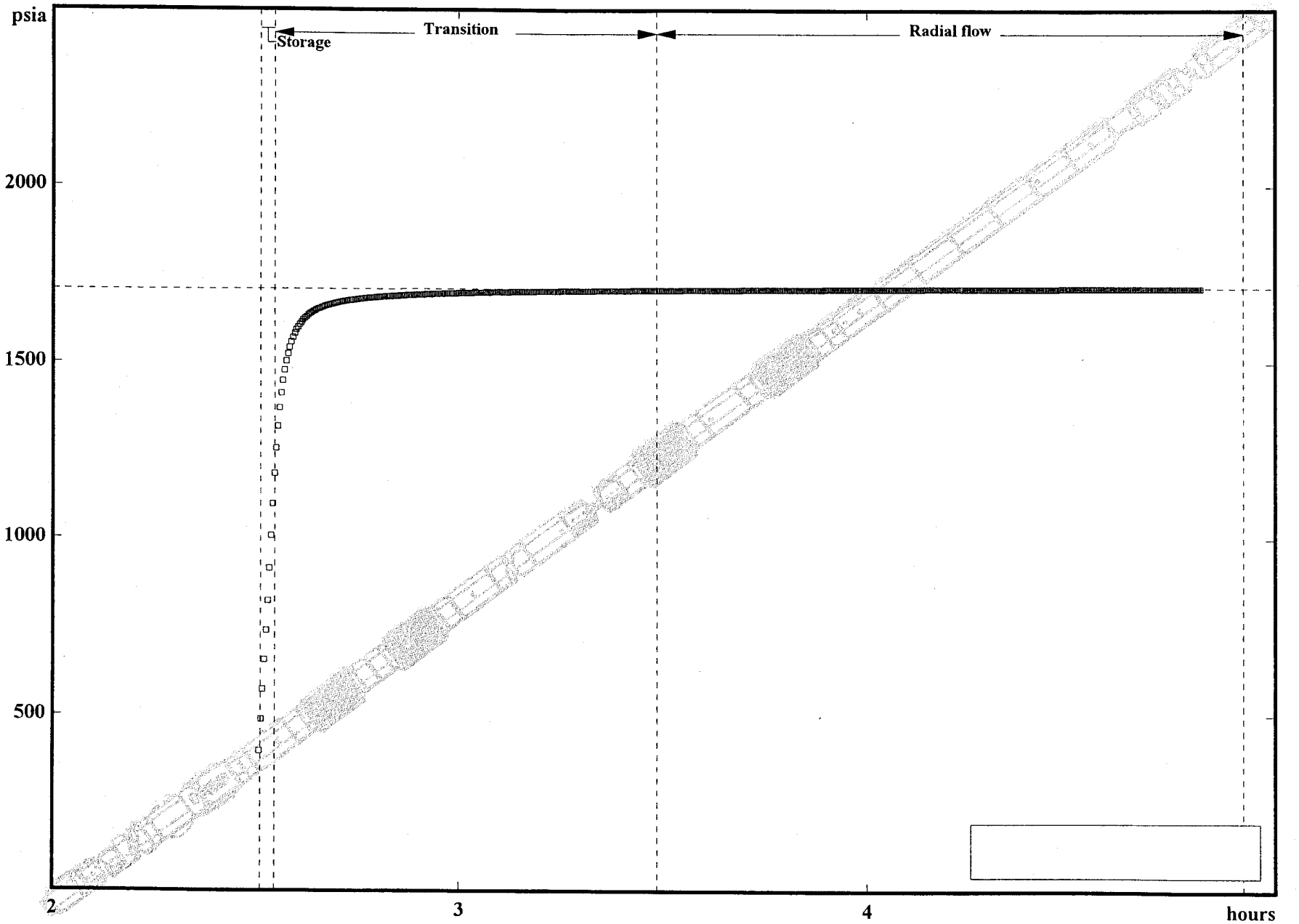


FINAL SHUT-IN PERIOD DST#1

RIG TESTERS, INC.

PATTERSON PETROLEUM LP. PADDY "19" STATE #1

Cartesian plot (pressure & time)



FINAL SHUT-IN PERIOD DST#1

RIG TESTERS, INC.