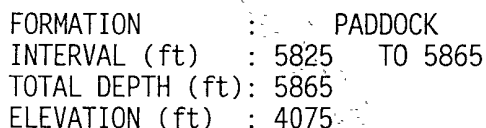


TEST DATE : 04/10/07
D.S.T. NO. : 1
TEST TKT. NO. : 24531
INVOICE NO. : 22194
ORDER NO. :



HOLE SIZE (in) : 8.750
DRILL PIPE ID (in) : 3.82
DRILL COLLAR ID(in): 2.25
DRILL COLLAR feet : 890

ANCHOR LENGTH (ft): 40
TOOL LENGTH (ft) : 81
TOOL O.D. (in) : 5
PACKER SIZE (in) : 7.50

TOP RECORDER: IN
RECORDER NO. : 22027
CAPACITY (psi): 10000
DEPTH (ft) : 5850
CLOCK NO. : 22027
DURATION (hrs): 99

BOTTOM RECORDER: OUT
RECORDER NO. : 13815
CAPACITY (psi): 8275
DEPTH (ft) : 5862
CLOCK NO. : 18405
DURATION (hrs): 24

MUD TYPE : CUT BRINE
MUD WT. (#/gal) : 8.90

WATER LOSS (cc) :
 FILTER CAKE (in) :
 VISCOSITY (sec) : 28

CHLORIDE PPM : 55000
RESISTIVITY(ohm-m): .070

```

CONVENTIONAL      : YES
STRADDLE          : NO
SELECTIVE ZONE    : NO
SAMPLE CHAMBER    : YES
GAS ANALYSIS      : NO

```

ROTARY JARS : YES
NO. OF PACKERS : 2
SAFETY JOINT : YES
CIRCULATING SUB : YES
REVERSED OUT : NO

MULTIFLOW : NO
MILEAGE : NO
OPERATOR TIME : NO
OTHER : YES
STELLAR ELECTRONICS(2)

SUCCESSFUL : YES

PACKER FAILURE : NO

TOOL PLUG : NO

DECIDED NOT TO TEST : NO

FAIL TO REACH BOTTOM : NO

TOOL OPENED : 5:45 PM

TOTAL TEST TIME: 270

```
INITIAL FLOW      : 30
SECOND FLOW       : 61
THIRD FLOW        :
```

```
INITIAL SHUT-IN: 60
SECOND SHUT-IN : 119
THIRD SHUT IN  :
```

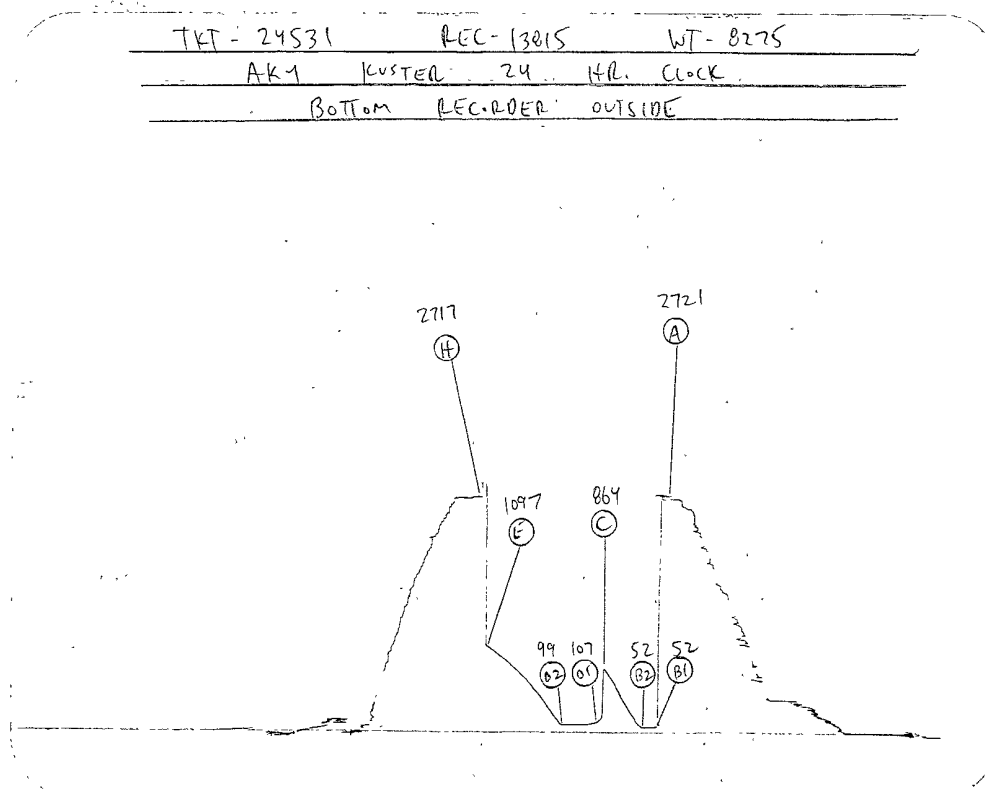
TEST TOOL OPERATOR: TOMMY WILLIAMS



PATTERSON PETROLEUM L.P.

COOPER "24" FED. COM # 2
D.S.T. NO. :1

	CORRECTED READING	FIELD READING
A INITIAL HYDROSTATIC:	2716 PSI	2716 PSI
B-1 INITIAL FIRST FLOW :	41 PSI	41 PSI
B-2 FINAL FIRST FLOW :	68 PSI	68 PSI
C FIRST SHUT-IN :	859 PSI	859 PSI
D-1 INITIAL SECOND FLOW:	67 PSI	67 PSI
D-2 FINAL SECOND FLOW :	96 PSI	96 PSI
E SECOND SHUT-IN :	1092 PSI	1092 PSI
H FINAL HYDROSTATIC :	2712 PSI	2712 PSI



PIPE RECOVERY

RECOVERY DATA
B.H. TEMP. (deg F) : 102

SAMPLE CHAMBER

2000 FT. OF FAINT GAS IN PIPE & COLLARS
125 FT. OF TOTAL FLUID
50 FT. OF OIL & GAS CUT MUDDY WATER (25% OIL)
75 FT. OF DRLG. WATER
60,000 MG/L CHLORIDES- .068 OHMS @ 85 DEGREES

75 LBS. OF PRESSURE
0.75 CU. FT. OF GAS
900 CC'S OF FREE OIL
42 GRAVITY @ 60 DEGREES
900 CC'S OF DRLG. WATER
60,000 MG/L CHLORIDES
.068 OHMS @ 85 DEGREES

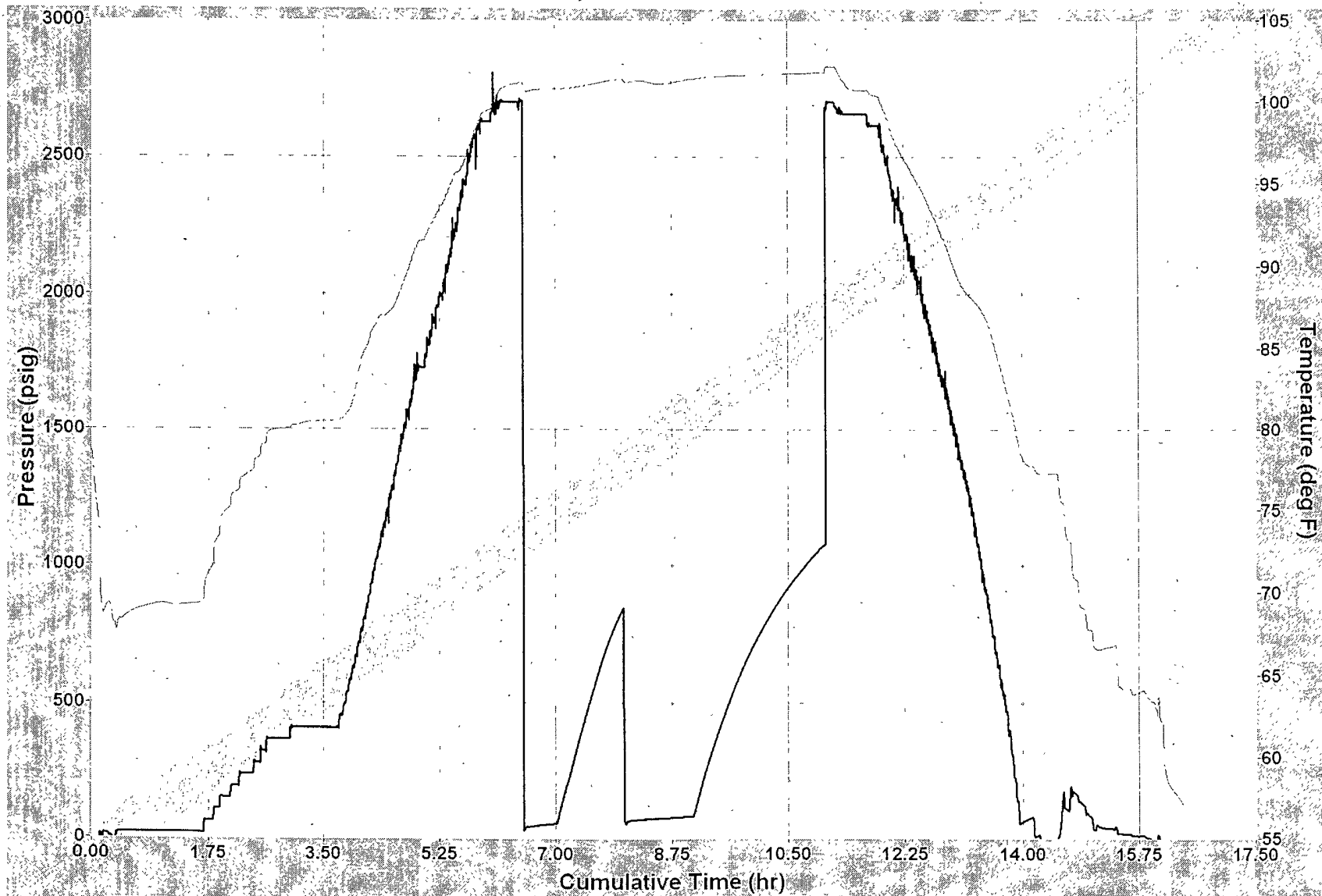
TEST REMARKS

TOOL OPENED WITH VERY WEAK BLOW (1/2" IN WATER) WHICH BUILT TO GOOD BLOW (18" IN WATER) IN 13 MIN., 5.5 OZS. ON 3/16" CHOKE IN 15 MIN., 6 OZS. IN 20 MIN. & REMAINED THROUGHOUT THE 30 MIN. FIRST FLOW PERIOD. REOPENED TOOL ON 3/16" CHOKE WITH 15 OZS. IN 4 MIN., BEGAN DECREASING IN 6 MIN. TO 12 OZS. IN 15 MIN., 10 OZS. IN 30 MIN., 7 OZS. IN 45 MIN. & 5 OZS. ON 3/16" CHOKE AT END OF THE 60 MIN. FINAL FLOW PERIOD.

Company Name PATTERSON PETROLEUM, LP
Well Name COOPER "24" FEDERAL COM #2
Type of Test DST #1 5825 - 5865 FT
Date(s) of Test 4-11-2007 PADDOCK



RIG TESTERS, INC. GUAGE # 22027

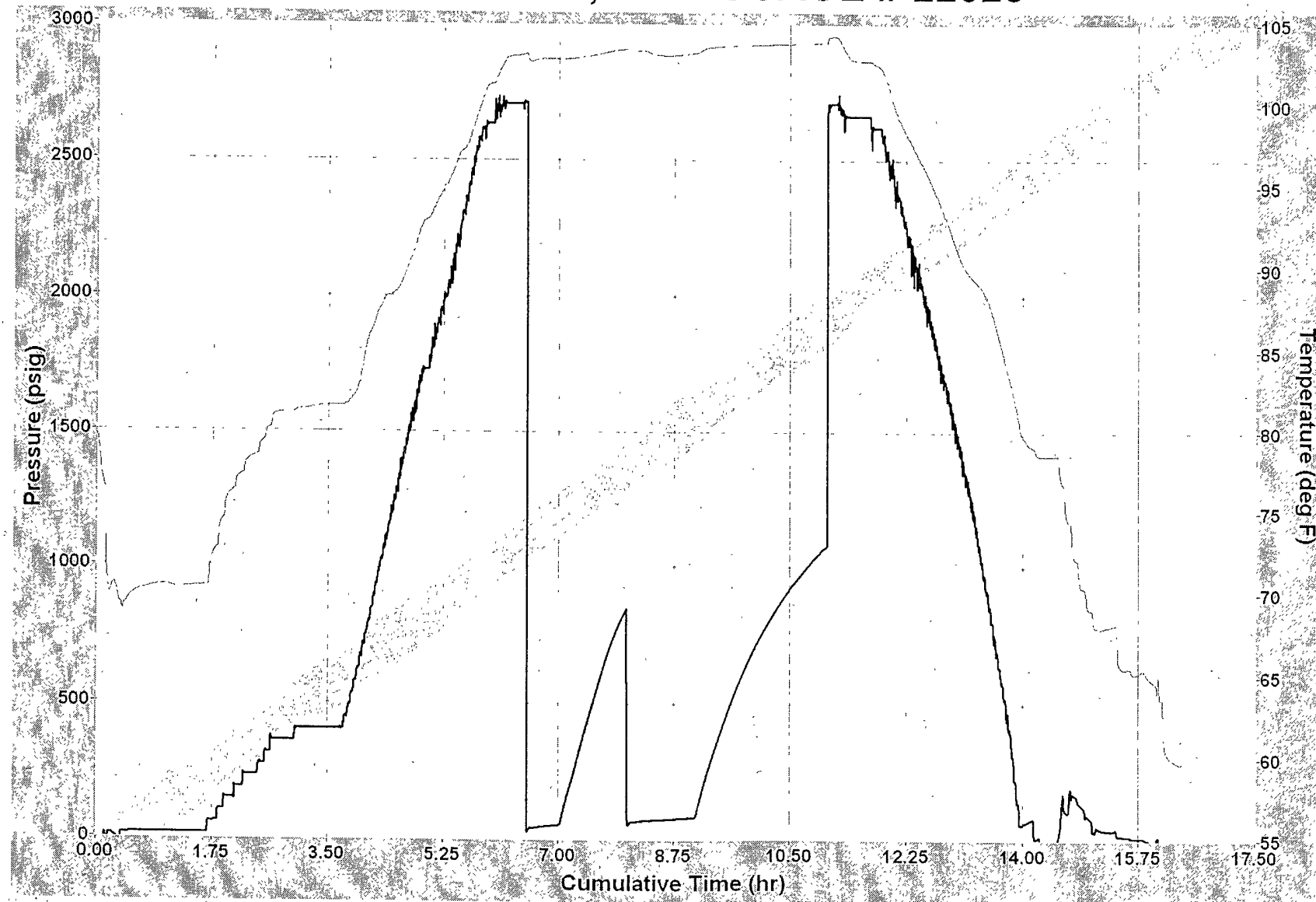


RIG
TESTERS, INC.

Company Name PATTERSON PETROLEUM, LP
Well Name COOPER "24" FEDERAL COM #2
Type of Test DST #1 5825 - 5865 FT
Date(s) of Test 4-10-2007 PADDOCK



RIG TESTERS, INC. GUAGE # 22028



INCREMENTAL PRESSURE DATA

RECORDER NO : 22027

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 5850 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
FIRST FLOW					
.0	.0			41.10	.00
2.0	2.0			53.02	11.92
4.0	4.0			55.86	14.76
6.0	6.0			56.60	15.50
8.0	8.0			58.10	17.00
10.0	10.0			59.09	17.99
12.0	12.0			60.50	19.40
14.0	14.0			61.63	20.53
16.0	16.0			62.39	21.29
18.0	18.0			63.30	22.20
20.0	20.0			64.20	23.10
22.0	22.0			65.20	24.10
24.0	24.0			65.90	24.80
26.0	26.0			66.80	25.70
28.0	28.0			67.68	26.58
30.0	30.0			68.70	27.60
FIRST SHUT-IN					
30.0	30.0	.00	.000	68.70	.00
30.5	30.0	.50	61.000	79.41	10.71
31.0	30.0	1.00	31.000	88.01	19.31
31.5	30.0	1.50	21.000	97.30	28.60
32.0	30.0	2.00	16.000	106.27	37.57
32.5	30.0	2.50	13.000	114.13	45.43
33.0	30.0	3.00	11.000	122.90	54.20
33.5	30.0	3.50	9.571	131.18	62.48
34.0	30.0	4.00	8.500	138.86	70.16
34.5	30.0	4.50	7.667	147.30	78.60
35.0	30.0	5.00	7.000	155.53	86.83
36.0	30.0	6.00	6.000	170.80	102.10
37.0	30.0	7.00	5.286	185.68	116.98
38.0	30.0	8.00	4.750	201.02	132.32
39.0	30.0	9.00	4.333	214.60	145.90
40.0	30.0	10.00	4.000	227.81	159.11
42.0	30.0	12.00	3.500	256.80	188.10
44.0	30.0	14.00	3.143	289.52	220.82
46.0	30.0	16.00	2.875	320.28	251.58
48.0	30.0	18.00	2.667	351.20	282.50
50.0	30.0	20.00	2.500	381.70	313.00
53.0	30.0	23.00	2.304	425.59	356.89
56.0	30.0	26.00	2.154	468.31	399.61
59.0	30.0	29.00	2.034	510.71	442.01
62.0	30.0	32.00	1.938	552.69	483.99
65.0	30.0	35.00	1.857	594.90	526.20
68.0	30.0	38.00	1.789	636.00	567.30

INCREMENTAL PRESSURE DATA

RECORDER NO : 22027

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 5850 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
FIRST SHUT-IN					
71.0	30.0	41.00	1.732	675.46	606.76
74.0	30.0	44.00	1.682	711.33	642.63
77.0	30.0	47.00	1.638	744.33	675.63
80.0	30.0	50.00	1.600	775.60	706.90
83.0	30.0	53.00	1.566	804.68	735.98
86.0	30.0	56.00	1.536	829.96	761.26
89.0	30.0	59.00	1.508	853.65	784.95
89.8	30.0	59.76	1.502	859.00	790.30
SECOND FLOW					
91.5	31.7			67.00	.00
94.5	34.7			79.50	12.50
97.5	37.7			80.90	13.90
100.5	40.7			83.00	16.00
103.5	43.7			83.90	16.90
106.5	46.7			85.30	18.30
109.5	49.7			86.00	19.00
112.5	52.7			86.30	19.30
115.5	55.7			87.20	20.20
118.5	58.7			87.80	20.80
121.5	61.7			88.60	21.60
124.5	64.7			89.40	22.40
127.5	67.7			90.00	23.00
130.5	70.7			90.60	23.60
133.5	73.7			91.60	24.60
136.5	76.7			92.40	25.40
139.5	79.7			93.00	26.00
142.5	82.7			93.80	26.80
145.5	85.7			94.40	27.40
148.5	88.7			95.10	28.10
151.5	91.7			95.90	28.90
152.5	92.8			96.30	29.30
SECOND SHUT-IN					
152.5	92.8	.00	.000	96.30	.00
153.5	92.8	1.00	93.760	112.13	15.83
154.5	92.8	2.00	47.380	128.04	31.74
155.5	92.8	3.00	31.920	143.60	47.30
156.5	92.8	4.00	24.190	159.61	63.31
157.5	92.8	5.00	19.552	174.53	78.23



INCREMENTAL PRESSURE DATA

RECORDER NO : 22027

RECORDER CAPACITY : 10000 psi.

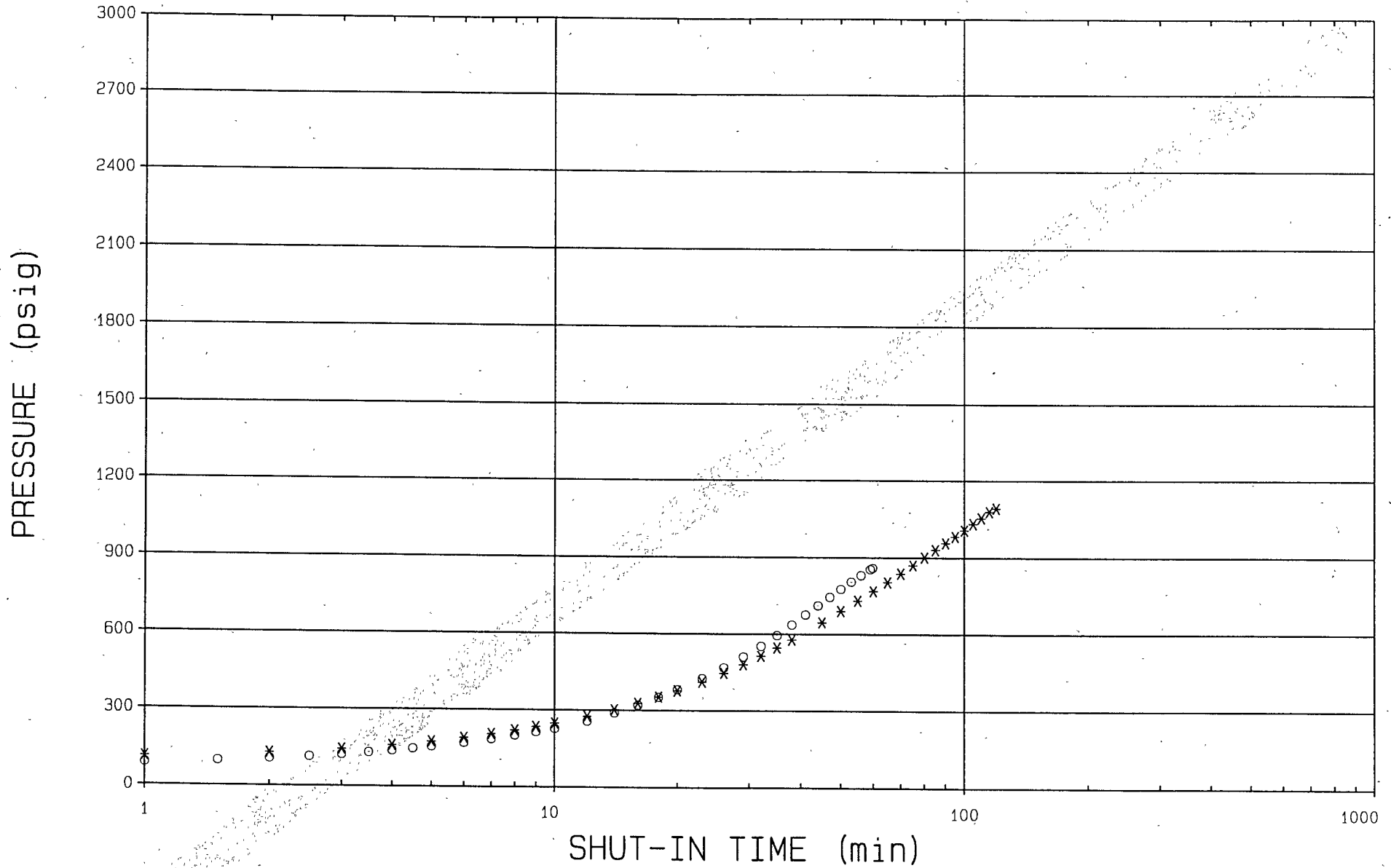
RECORDER DEPTH : 5850 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P. ---PSIG---
		SECOND SHUT-IN			
158.5	92.8	6.00	16.460	189.80	93.50
159.5	92.8	7.00	14.251	205.39	109.09
160.5	92.8	8.00	12.595	219.91	123.61
161.5	92.8	9.00	11.307	234.00	137.70
162.5	92.8	10.00	10.276	248.38	152.08
164.5	92.8	12.00	8.730	275.40	179.10
166.5	92.8	14.00	7.626	301.96	205.66
168.5	92.8	16.00	6.798	327.63	231.33
170.5	92.8	18.00	6.153	352.20	255.90
172.5	92.8	20.00	5.638	376.76	280.46
175.5	92.8	23.00	5.033	411.84	315.54
178.5	92.8	26.00	4.568	446.43	350.13
181.5	92.8	29.00	4.199	480.32	384.02
184.5	92.8	32.00	3.899	513.52	417.22
187.5	92.8	35.00	3.650	546.02	449.72
190.5	92.8	38.00	3.441	577.23	480.93
197.5	92.8	45.00	3.061	645.10	548.80
202.5	92.8	50.00	2.855	689.26	592.96
207.5	92.8	55.00	2.687	729.97	633.67
212.5	92.8	60.00	2.546	767.30	671.00
217.5	92.8	65.00	2.427	802.73	706.43
222.5	92.8	70.00	2.325	836.80	740.50
227.5	92.8	75.00	2.237	869.10	772.80
232.5	92.8	80.00	2.160	900.82	804.52
237.5	92.8	85.00	2.091	930.17	833.87
242.5	92.8	90.00	2.031	956.60	860.30
247.5	92.8	95.00	1.976	982.31	886.01
252.5	92.8	100.00	1.928	1007.05	910.75
257.5	92.8	105.00	1.883	1032.10	935.80
262.5	92.8	110.00	1.843	1054.49	958.19
267.5	92.8	115.00	1.807	1079.18	982.88
272.0	92.8	119.46	1.776	1092.40	996.10

REMARKS

THE INCREMENTAL DATA, CHARTS & ANALYSIS ARE FROM THE ELECTRONIC RECORDER.
PLEASE REFER TO DERIVATIVE DIAGNOSTICS ANALYSIS FOR FURTHER INFORMATION
(PRESSURE ASCII FILES ARE AVAILABLE ON DISKETTE OR E-MAIL UPON REQUEST)

PRESSURE TIME

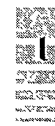


PATTERSON PETROLEUM L.P.
COOPER "24" FED. COM # 2



RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM

PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2



Well identification

Well ID	COOPER "23" #2	Well location	S.E. MALJAMAR
County/District	LEA	State, Country	NEW MEXICO
Company	PATTERSON PETR.	Division	SNYDER

Fluid properties

Prod/Inj fluid	OIL	GOR	150:1
Water cut	0%	Condensate yield	UNKNOWN
API gravity	42.0	Gas spec. grav.	0.7
Viscosity	2.4748 cp	Pseudo-critical T	389.38 deg R
Pseudo-critical P	669.13 psia	H2S mole fraction	UNKNOWN
CO2 mole fraction	UNKNOWN	N2 mole fraction	UNKNOWN
Compressibility(t)	8.6944 e-6/psi	Formation vol factor	1.092 RB/STB

Reservoir properties

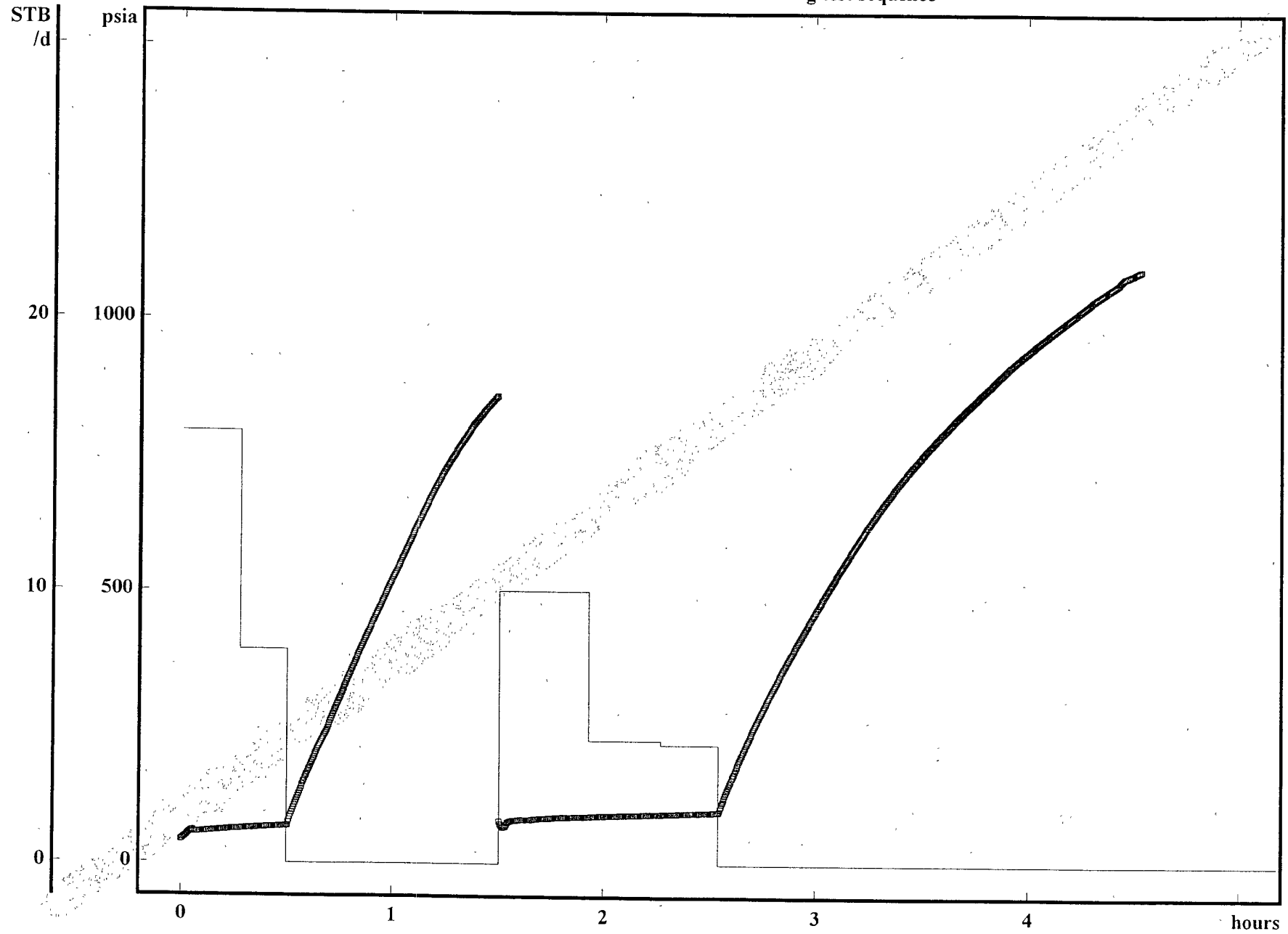
Porosity	0.12 frac	Formation thickness	20 ft
Wellbore radius	0.36458 ft	Prod-observer distance	N/A
Water-Oil Contact	UNKNOWN	Gas-Oil Contact	N/A
Gas-Water Contact	N/A	Rock compressibility	
Reservoir temperature	102 deg F	Pressure for properties	2287 psia

Comments

THE DERIVATIVES INDICATE DOMINATION OF WELLBORE STORAGE EFFECT ON BOTH SHUT-IN PERIODS. ANY CALCULATIONS (EXTRAPOLATIONS, PERMEABILITY AND SKIN) UNDER THESE CONDITIONS ARE AMBIGUOUS AND UNRELIABLE. THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 20 FT. OF NET PAY REPORTED AND AN AVERAGE (TIME WEIGHTED) PRODUCTION OF 6 BBLS. OF OIL FOR THE FINAL FLOW. THE RATES WERE BASED ON DENSITY OF FLUID RECOVERED VS. FLOWING PRESSURES. * THE OVERALL TEST INDICATES A RESERVOIR WITH LOW POROSITY AND VERY LOW PERMEABILITY.

PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2

Pressure and flow rate vs time during test sequence

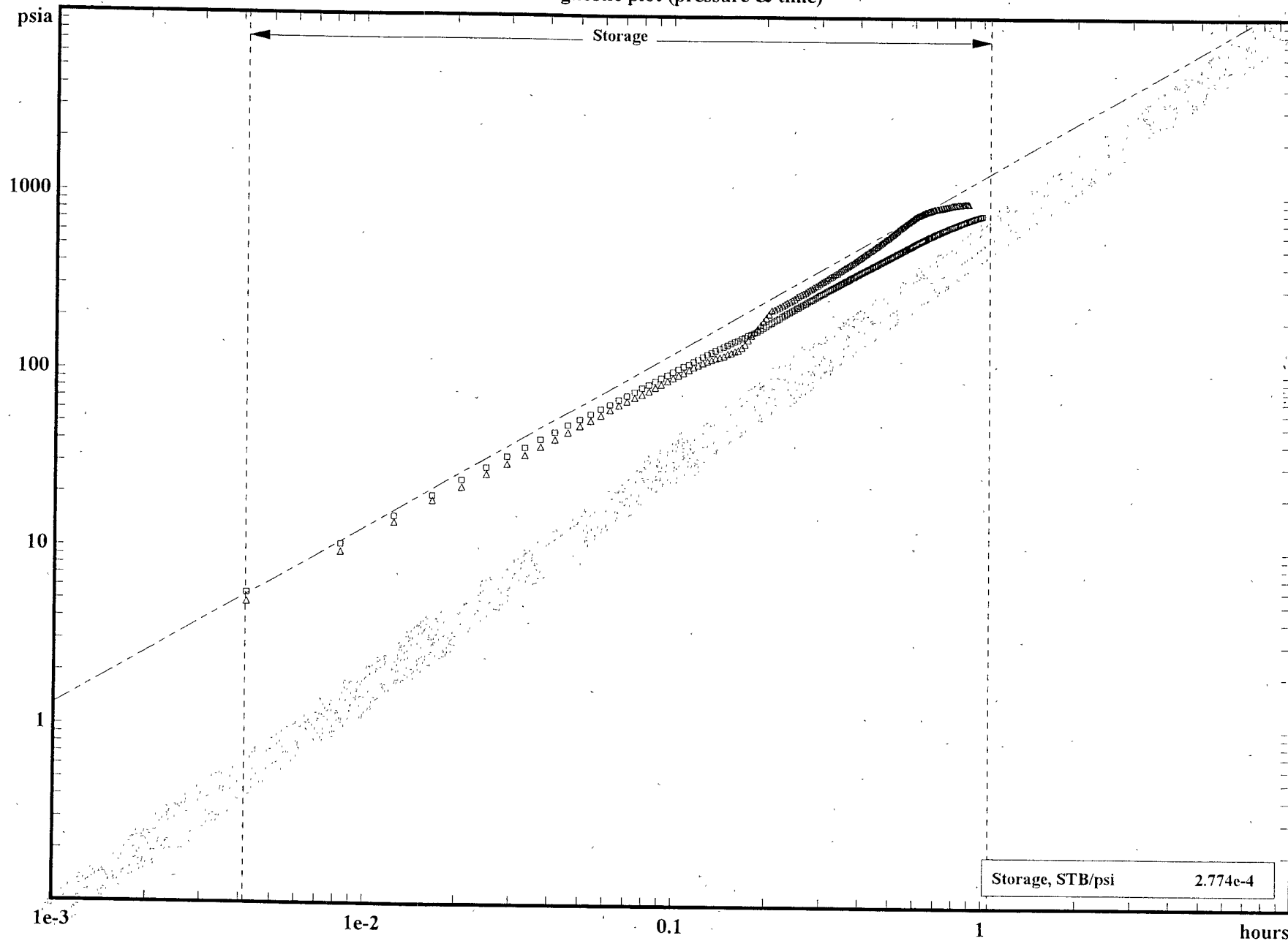


DST #1 5825 - 5865 FT.; PADDOCK



PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2

Diagnostic plot (pressure & time)

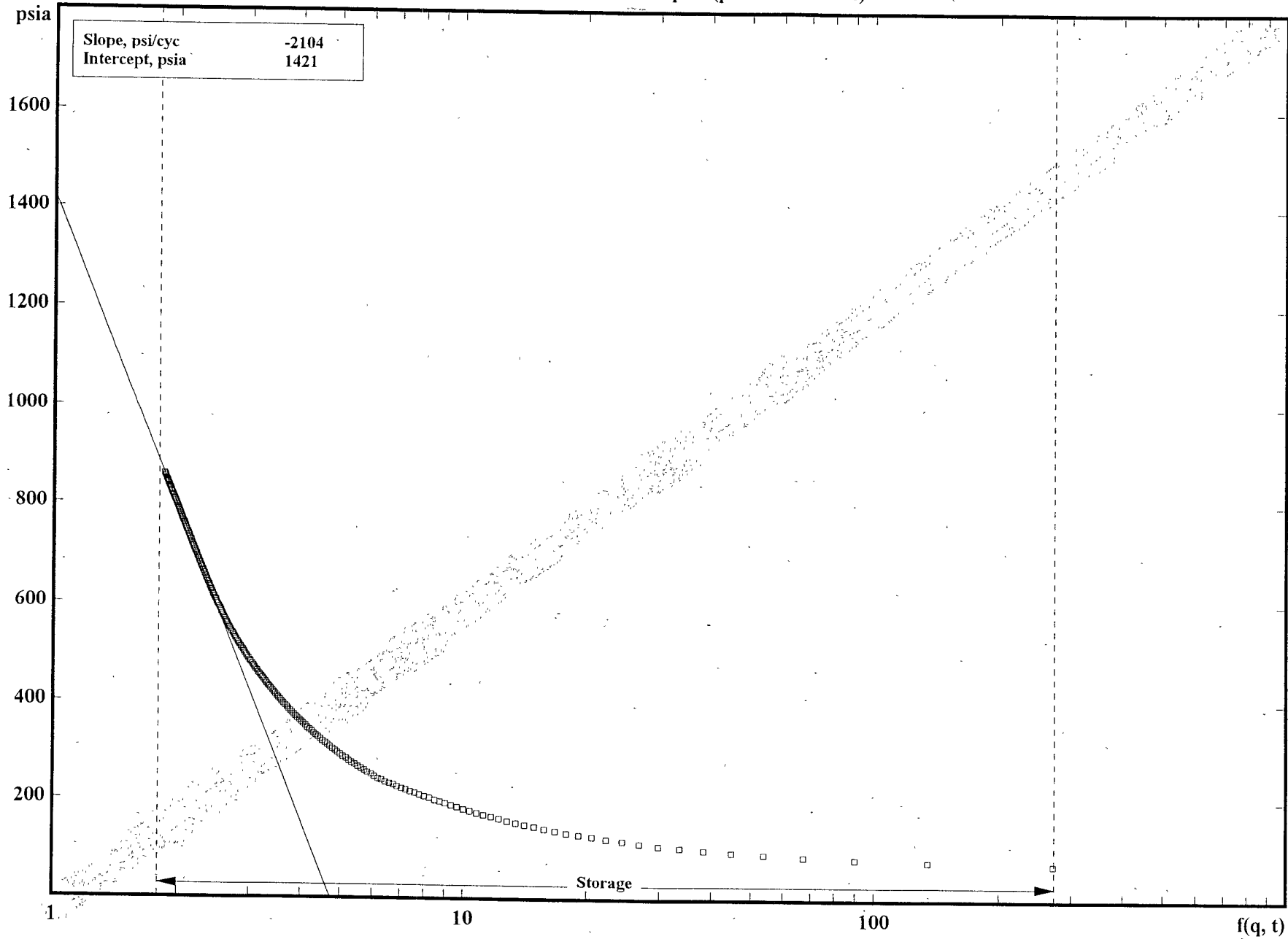


INITIAL SHUT-IN PERIOD DST#1



PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2

Variable rate Horner plot (pressure & time)

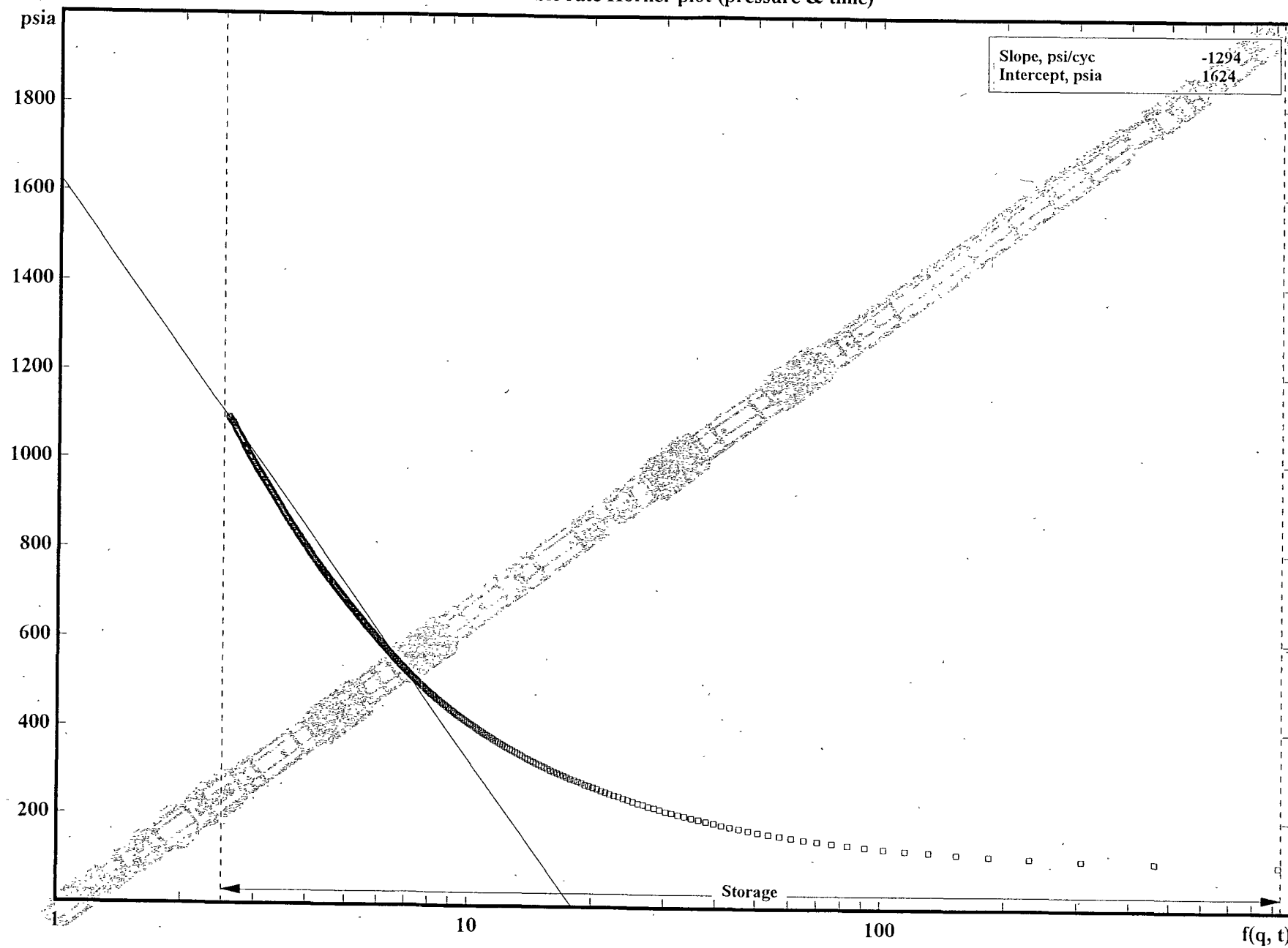


INITIAL SHUT-IN PERIOD DST#1



PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2.

Variable rate Horner plot (pressure & time)

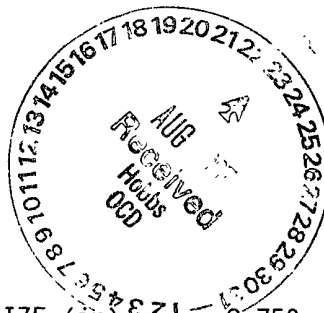




API # 30-025-38348
Sec-24, T-17s, R-32e

COMPANY : PATTERSON PETROLEUM LP.
LEASE : COOPER "24" FED COM
WELL NO. : # 2
FIELD : LEAMEX (W. MORROW)
COUNTY/STATE : LEA / NEW MEXICO

TEST DATE : 04/24/07
D.S.T. NO. : 2
TEST TKT. NO. : 24535
INVOICE NO. : 22223
ORDER NO. :



FORMATION : WOLFCAMP
INTERVAL (ft) : 10059 TO 10072
TOTAL DEPTH (ft): 10092
ELEVATION (ft) : 4075

HOLE SIZE (in) : 8.750
DRILL PIPE ID (in) : 3.82
DRILL COLLAR ID(in): 2.25
DRILL COLLAR feet : 890

ANCHOR LENGTH (ft): 13
TOOL LENGTH (ft) : 74
TOOL O.D. (in) : 5
PACKER SIZE (in) : 7.50

RECORDER DATA
AK-1KUSTER / STELLAR

TOP RECORDER: IN
RECORDER NO. : 22027
CAPACITY (psi): 10000
DEPTH (ft) : 10062
CLOCK NO. : 22027
DURATION (hrs): 99

BOTTOM RECORDER: OUT
RECORDER NO. : 22028
CAPACITY (psi): 10000
DEPTH (ft) : 10064
CLOCK NO. : 22028
DURATION (hrs): 99

MUD PROPERTIES

MUD TYPE : CUT BRINE
MUD WT. (#/gal) : 8.60

WATER LOSS (cc) :
FILTER CAKE (in) :
VISCOSITY (sec) : 28

CHLORIDE PPM : 23000
RESISTIVITY(ohm-m): .158

EQUIPMENT DATA

CONVENTIONAL : NO
STRADDLE : YES
SELECTIVE ZONE : NO
SAMPLE CHAMBER : YES
GAS ANALYSIS : NO

ROTARY JARS : YES
NO. OF PACKERS : 3
SAFETY JOINT : YES
CIRCULATING SUB : YES
REVERSED OUT : NO

MULTIFLOW : NO
MILEAGE : NO
OPERATOR TIME : YES
OTHER : YES
STELLAR ELECTRONICS(2)

SUCCESSFUL : NO

PACKER FAILURE : YES

TOOL PLUG : NO

DECIDED NOT TO TEST : NO

FAIL TO REACH BOTTOM : NO

TIME INTERVAL DATA (min)

TOOL OPENED : 10:00 AM

TOTAL TEST TIME: 297

INITIAL FLOW : 34
SECOND FLOW : 60
THIRD FLOW :

INITIAL SHUT-IN: 59
SECOND SHUT-IN : 145
THIRD SHUT IN :

TEST TOOL OPERATOR: TOMMY WILLIAMS

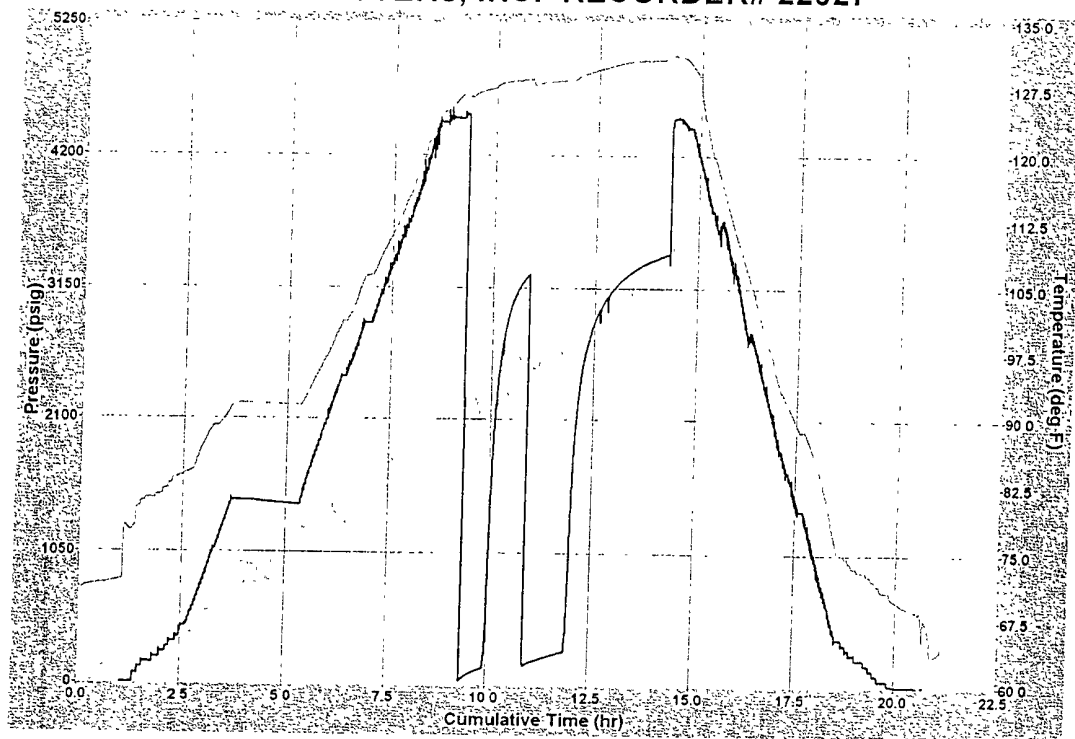


PATTERSON PETROLEUM LP.

COOPER "24" FED COM # 2
D.S.T. NO. :2

		CORRECTED READING	FIELD READING
A	INITIAL HYDROSTATIC:	4535 PSI	4535 PSI
B-1	INITIAL FIRST FLOW :	44 PSI	44 PSI
B-2	FINAL FIRST FLOW :	149 PSI	147 PSI
C	FIRST SHUT-IN :	3274 PSI	3274 PSI
D-1	INITIAL SECOND FLOW:	163 PSI	163 PSI
D-2	FINAL SECOND FLOW :	283 PSI	283 PSI
E	SECOND SHUT-IN :	3437 PSI	3437 PSI
H	FINAL HYDROSTATIC :	4505 PSI	4505 PSI

RIG TESTERS, INC. RECORDER# 22027



PIPE RECOVERY

RECOVERY DATA

B.H. TEMP. (deg F) : 131

SAMPLE CHAMBER

250 FT. OF GAS IN COLLARS
475 FT. OF TOTAL FLUID
100 FT. OF MUDDY DRLG. WATER
28,000 MG/L CHLORIDES- .130 OHMS @ 85 DEGREES
375 FT. OF SALTWATER
70,000 MG/L CHLORIDES- .0595 OHMS @ 85 DEGREES

200 LBS. OF PRESSURE
.50 CU. FT. OF GAS
200 CC'S OF MUDDY WATER
1600 CC'S OF SALTWATER
70,000 MG/L CHLORIDES
.0595 OHMS @ 85 DEGREES

TEST REMARKS

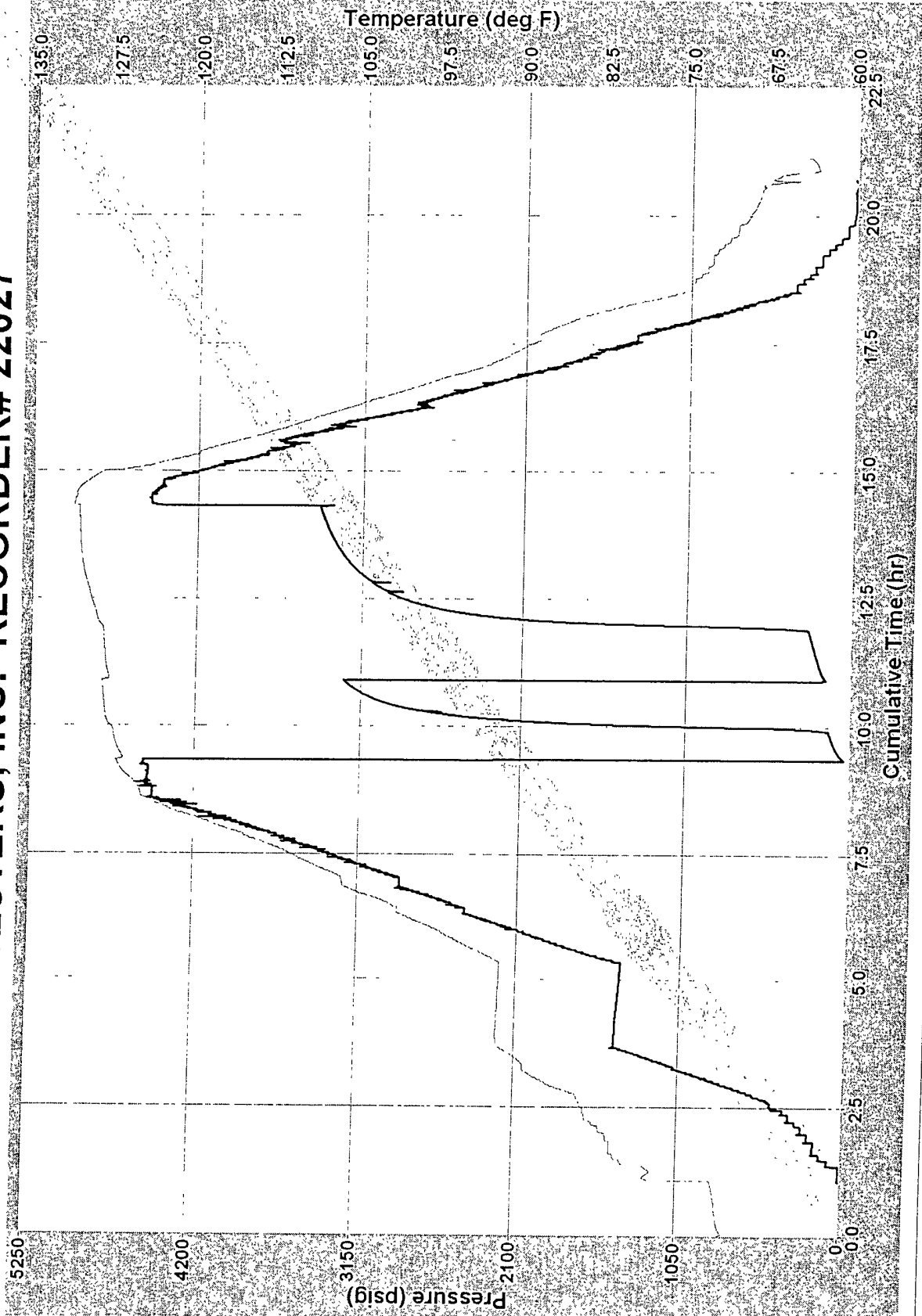
TOOL OPENED WITH VERY WEAK BLOW (1/4" IN WATER) WHICH BUILT SLOWLY TO (3" IN WATER) AT END OF THE 30 MIN. FIRST FLOW. REOPENED TOOL WITH VERY WEAK BLOW (1/8" IN WATER) WHICH BUILT SLOWLY TO (2" IN WATER) AT END OF THE 60 MIN. FINAL FLOW PERIOD.

(MISS-RUN; BOTTOM PACKER FAILURE)

Company Name PATTERSON PETROLEUM LP
Well Name COOPER "24" FED COM #2
Type of Test DST #2 (10059-10072 FT. WOLFCAMP)
Date(s) of Test 4-24-07



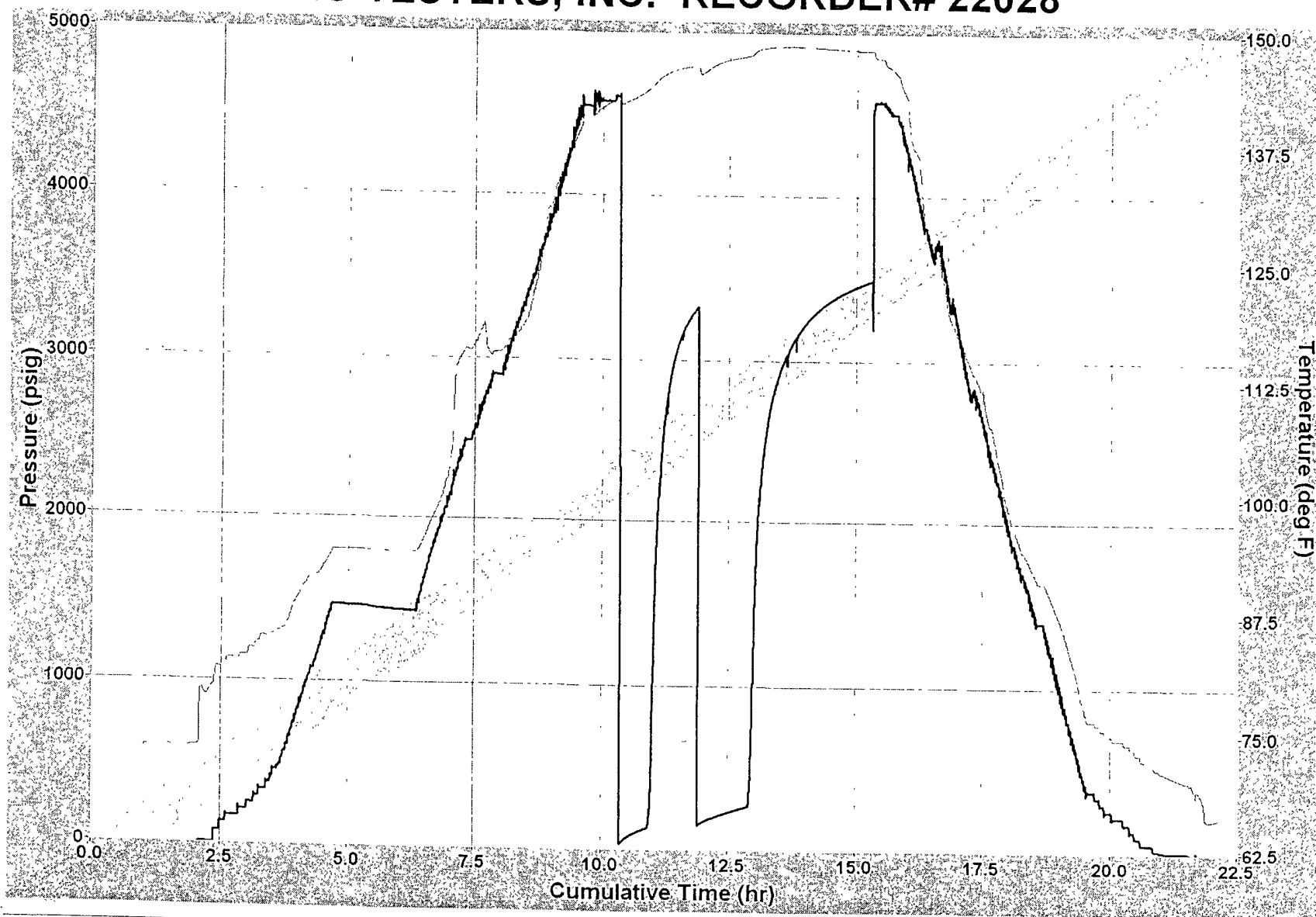
RIG TESTERS, INC. RECORDER# 22027



Company Name PATTERSON PETROLEUM LP.
Well Name COOPER "24" FED COM #2
Type of Test DST #2 (10059-10072 FT , WOLFCAMP)
Date(s) of Test 4-24-07



RIG TESTERS, INC. RECORDER# 22028



INCREMENTAL PRESSURE DATA

RECORDER NO : 22027

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 10062 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
FIRST FLOW					
.0	.0			44.90	.00
2.0	2.0			55.91	11.01
4.0	4.0			67.18	22.28
6.0	6.0			76.40	31.50
8.0	8.0			83.78	38.88
10.0	10.0			91.23	46.33
12.0	12.0			97.80	52.90
14.0	14.0			103.31	58.41
16.0	16.0			108.93	64.03
18.0	18.0			113.90	69.00
20.0	20.0			118.89	73.99
22.0	22.0			123.74	78.84
24.0	24.0			128.30	83.40
26.0	26.0			132.33	87.43
28.0	28.0			136.74	91.84
30.0	30.0			140.60	95.70
32.0	32.0			144.72	99.82
33.8	33.8			149.20	104.30
FIRST SHUT-IN					
33.8	33.8	.00	.000	149.20	.00
34.3	33.8	.50	68.560	168.12	18.92
34.8	33.8	1.00	34.780	189.51	40.31
35.3	33.8	1.50	23.520	213.60	64.40
35.8	33.8	2.00	17.890	246.99	97.79
36.3	33.8	2.50	14.512	290.67	141.47
36.8	33.8	3.00	12.260	340.80	191.60
37.3	33.8	3.50	10.651	420.17	270.97
37.8	33.8	4.00	9.445	534.12	384.92
38.3	33.8	4.50	8.507	678.00	528.80
38.8	33.8	5.00	7.756	871.21	722.01
39.8	33.8	6.00	6.630	1205.20	1056.00
40.8	33.8	7.00	5.826	1449.63	1300.43
41.8	33.8	8.00	5.223	1645.94	1496.74
42.8	33.8	9.00	4.753	1796.70	1647.50
43.8	33.8	10.00	4.378	1936.88	1787.68
45.8	33.8	12.00	3.815	2148.40	1999.20
47.8	33.8	14.00	3.413	2305.16	2155.96
49.8	33.8	16.00	3.111	2445.09	2295.89
51.8	33.8	18.00	2.877	2554.30	2405.10
53.8	33.8	20.00	2.689	2644.48	2495.28
56.8	33.8	23.00	2.469	2757.31	2608.11
59.8	33.8	26.00	2.299	2858.28	2709.08
62.8	33.8	29.00	2.165	2933.37	2784.17
65.8	33.8	32.00	2.056	2995.50	2846.30

INCREMENTAL PRESSURE DATA

RECORDER NO : 22027

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 10062 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
FIRST SHUT-IN					
68.8	33.8	35.00	1.965	3048.03	2898.83
71.8	33.8	38.00	1.889	3089.09	2939.89
74.8	33.8	41.00	1.824	3126.03	2976.83
77.8	33.8	44.00	1.768	3161.86	3012.66
80.8	33.8	47.00	1.719	3185.82	3036.62
83.8	33.8	50.00	1.676	3214.75	3065.55
86.8	33.8	53.00	1.637	3238.86	3089.66
89.8	33.8	56.00	1.603	3256.74	3107.54
92.5	33.8	58.74	1.575	3274.50	3125.30
SECOND FLOW					
93.0	34.3			163.20	.00
96.0	37.3			175.80	12.60
99.0	40.3			185.50	22.30
102.0	43.3			193.50	30.30
105.0	46.3			200.40	37.20
108.0	49.3			206.70	43.50
111.0	52.3			212.60	49.40
114.0	55.3			218.60	55.40
117.0	58.3			224.30	61.10
120.0	61.3			229.80	66.60
123.0	64.3			235.30	72.10
126.0	67.3			240.50	77.30
129.0	70.3			245.90	82.70
132.0	73.3			251.00	87.80
135.0	76.3			255.70	92.50
138.0	79.3			260.80	97.60
141.0	82.3			265.70	102.50
144.0	85.3			270.20	107.00
147.0	88.3			275.20	112.00
150.0	91.3			279.70	116.50
152.5	93.8			283.70	120.50
SECOND SHUT-IN					
152.5	93.8	.00	.000	283.70	.00
153.5	93.8	1.00	94.780	355.58	71.88
154.5	93.8	2.00	47.890	450.52	166.82
155.5	93.8	3.00	32.260	593.50	309.80
156.5	93.8	4.00	24.445	830.40	546.70
157.5	93.8	5.00	19.756	1109.66	825.96

INCREMENTAL PRESSURE DATA

RECORDER NO : 22027

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 10062 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
SECOND SHUT-IN					
158.5	93.8	6.00	16.630	1368.20	1084.50
159.5	93.8	7.00	14.397	1569.34	1285.64
160.5	93.8	8.00	12.723	1726.29	1442.59
161.5	93.8	9.00	11.420	1854.00	1570.30
162.5	93.8	10.00	10.378	1942.01	1658.31
164.5	93.8	12.00	8.815	2124.50	1840.80
166.5	93.8	14.00	7.699	2251.92	1968.22
168.5	93.8	16.00	6.861	2359.83	2076.13
170.5	93.8	18.00	6.210	2440.30	2156.60
172.5	93.8	20.00	5.689	2522.43	2238.73
175.5	93.8	23.00	5.077	2619.63	2335.93
178.5	93.8	26.00	4.607	2699.93	2416.23
181.5	93.8	29.00	4.234	2763.86	2480.16
184.5	93.8	32.00	3.931	2825.48	2541.78
187.5	93.8	35.00	3.679	2873.12	2589.42
190.5	93.8	38.00	3.468	2920.20	2636.50
197.5	93.8	45.00	3.084	2979.00	2695.30
202.5	93.8	50.00	2.876	3053.00	2769.30
207.5	93.8	55.00	2.705	2987.56	2703.86
212.5	93.8	60.00	2.563	3133.20	2849.50
217.5	93.8	65.00	2.443	3168.61	2884.91
222.5	93.8	70.00	2.340	3199.05	2915.35
227.5	93.8	75.00	2.250	3226.00	2942.30
232.5	93.8	80.00	2.172	3250.50	2966.80
237.5	93.8	85.00	2.103	3272.66	2988.96
242.5	93.8	90.00	2.042	3292.70	3009.00
247.5	93.8	95.00	1.987	3311.17	3027.47
252.5	93.8	100.00	1.938	3328.21	3044.51
257.5	93.8	105.00	1.893	3343.60	3059.90
262.5	93.8	110.00	1.853	3358.28	3074.58
267.5	93.8	115.00	1.815	3372.08	3088.38
272.5	93.8	120.00	1.782	3384.60	3100.90
277.5	93.8	125.00	1.750	3396.35	3112.65
282.5	93.8	130.00	1.721	3407.47	3123.77
287.5	93.8	135.00	1.695	3417.90	3134.20
292.5	93.8	140.00	1.670	3427.64	3143.94
297.8	93.8	145.26	1.646	3437.40	3153.70

REMARKS

BLANK-OFF CHART INDICATES PRESSURE COMMUNICATION ACROSS BOTTOM PACKER SEAT
THE INCREMENTAL DATA, PLOTS AND ANALYSIS ARE FROM THE ELECTRONIC RECORDER
PLEASE REFER TO DERIVATIVE DIAGNOSTICS ANALYSIS FOR FURTHER INFORMATION

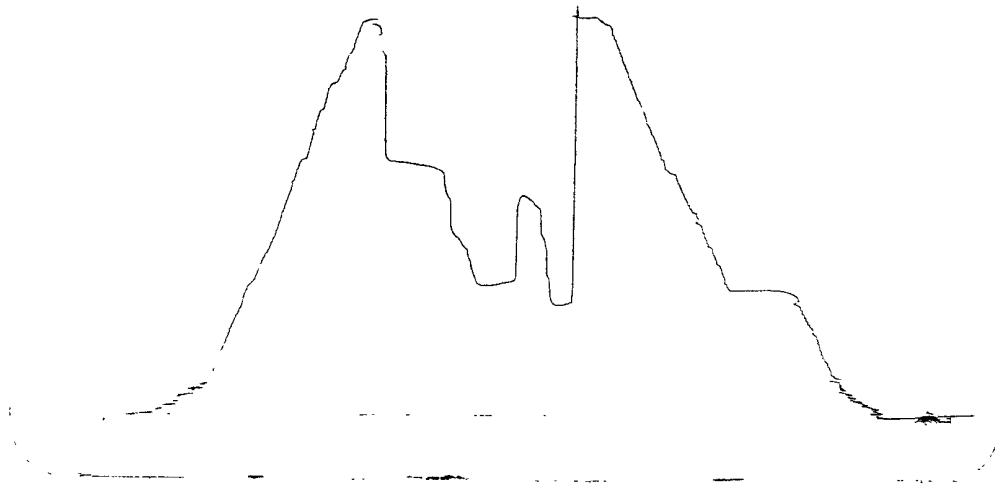


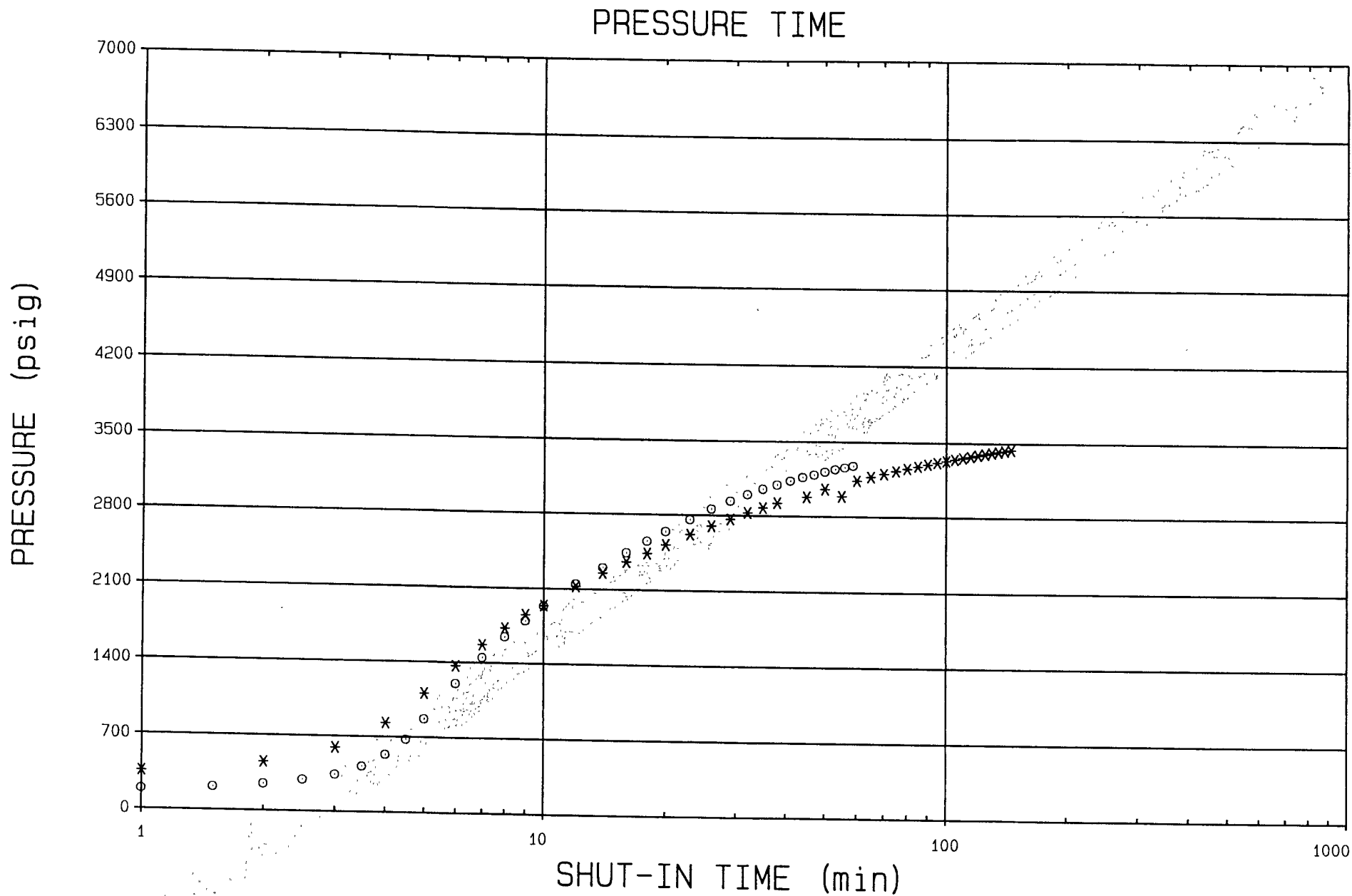
TKT-24535 REC-13815 WT-8275

AK-1 KUSTER 24 HR. CLOCK

STRADDLE TEST - BLANK-OFF CHART

MISS-RUN: BOTTOM PACKER FAILURE





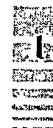
PATTERSON PETROLEUM LP.
COOPER "24" FED COM # 2

- FIRST SHUT-IN
- * SECOND SHUT-IN



RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM

PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2



Well identification

Well ID	COOPER "24" FED#	Well location	S.E. MALAJAMAR
County/District	LEA	State, Country	NEW MEXICO
Company	PATTERSON PETR.	Division	SNYDER

Fluid properties

Prod/Inj fluid	SALTWATER	GOR	
Water cut	100%	Condensate yield	UNKNOWN
API gravity		Gas spec. grav.	0.7
Viscosity	0.5777 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)	13.739 e-6/psi	Formation vol factor	1.0115 RB/STB

Reservoir properties

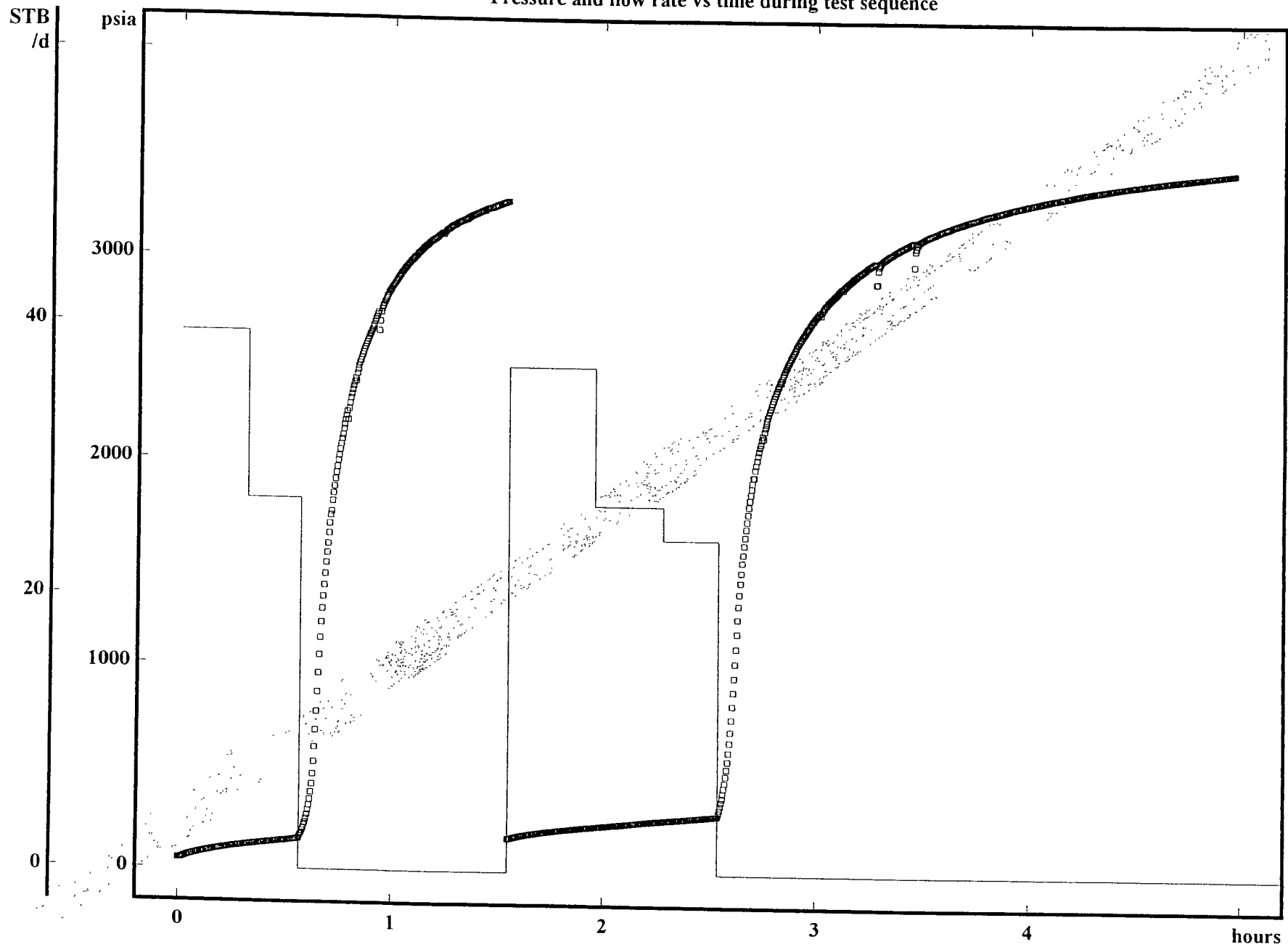
Porosity	0.12 frac	Formation thickness	13 ft
Wellbore radius	0.36458 ft	Prod-observer distance	N/A
Water-Oil Contact	UNKNOWN	Gas-Oil Contact	N/A
Gas-Water Contact	N/A	Rock compressibility	
Reservoir temperature	131 deg F	Pressure for properties	3820 psia

Comments

THE DERIVATIVES INDICATE A RESERVOIR WITH LOW PERMEABILITY AND NO (NEGATIVE) SKIN. THE INITIAL SHUT-IN WAS IN TRANSITION TOWARDS BUT HAD NOT ACHIEVED RADIAL FLOW WHICH WOULD MAKE ITS CALCULATIONS SUBJECT TO QUESTION. HOWEVER, THE FINAL SHUT-IN HAD REACHED TRUE RADIAL FLOW REGIME AS INDICATED BY THE FLATTENING ON DERIVATIVE CURVE. THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 13 FT. OF NET PAY REPORTED AND AN AVERAGE (TIME WEIGHTED) PRODUCTION OF 30 BBLS. OF WATER FOR THE FINAL FLOW PERIOD. THE RATES WERE BASED ON DENSITY OF FLUID RECOVERED VS. FLOWING PRESSURES. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO APPROX. 16 FT. FROM WELLBORE.

PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2

Pressure and flow rate vs time during test sequence

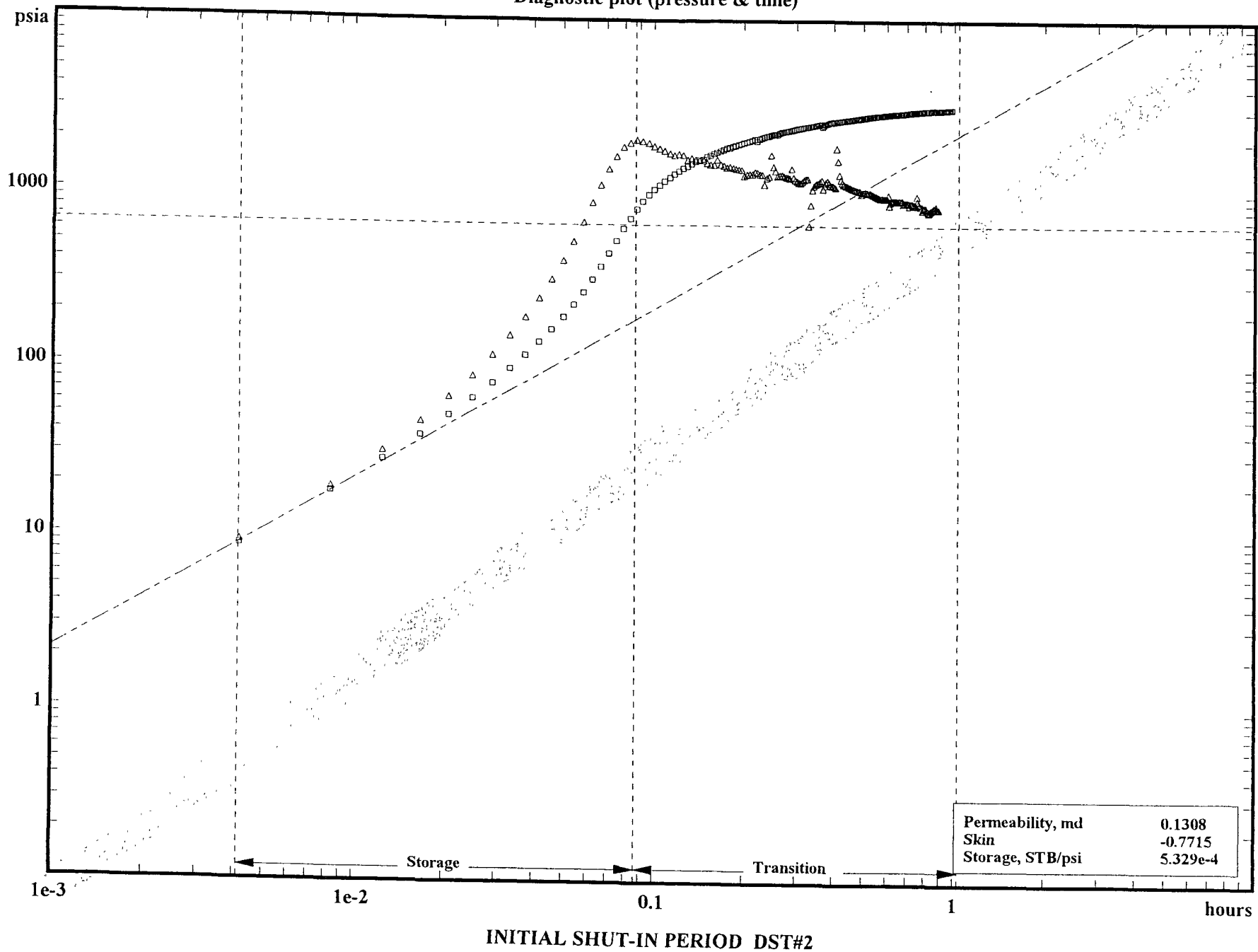


DST #2 10059 - 10072 FT.; WOLFCAMP



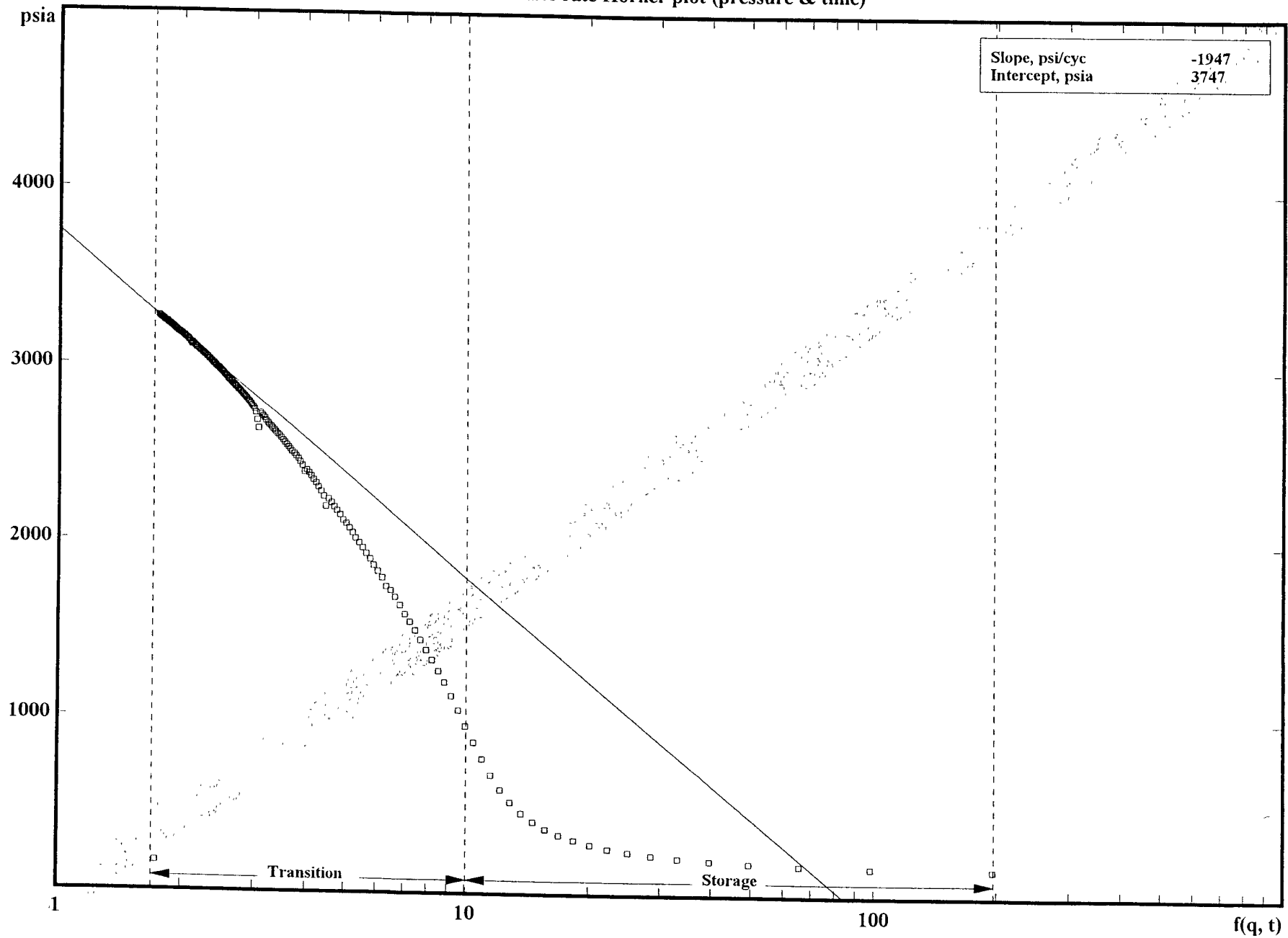
PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2

Diagnostic plot (pressure & time)



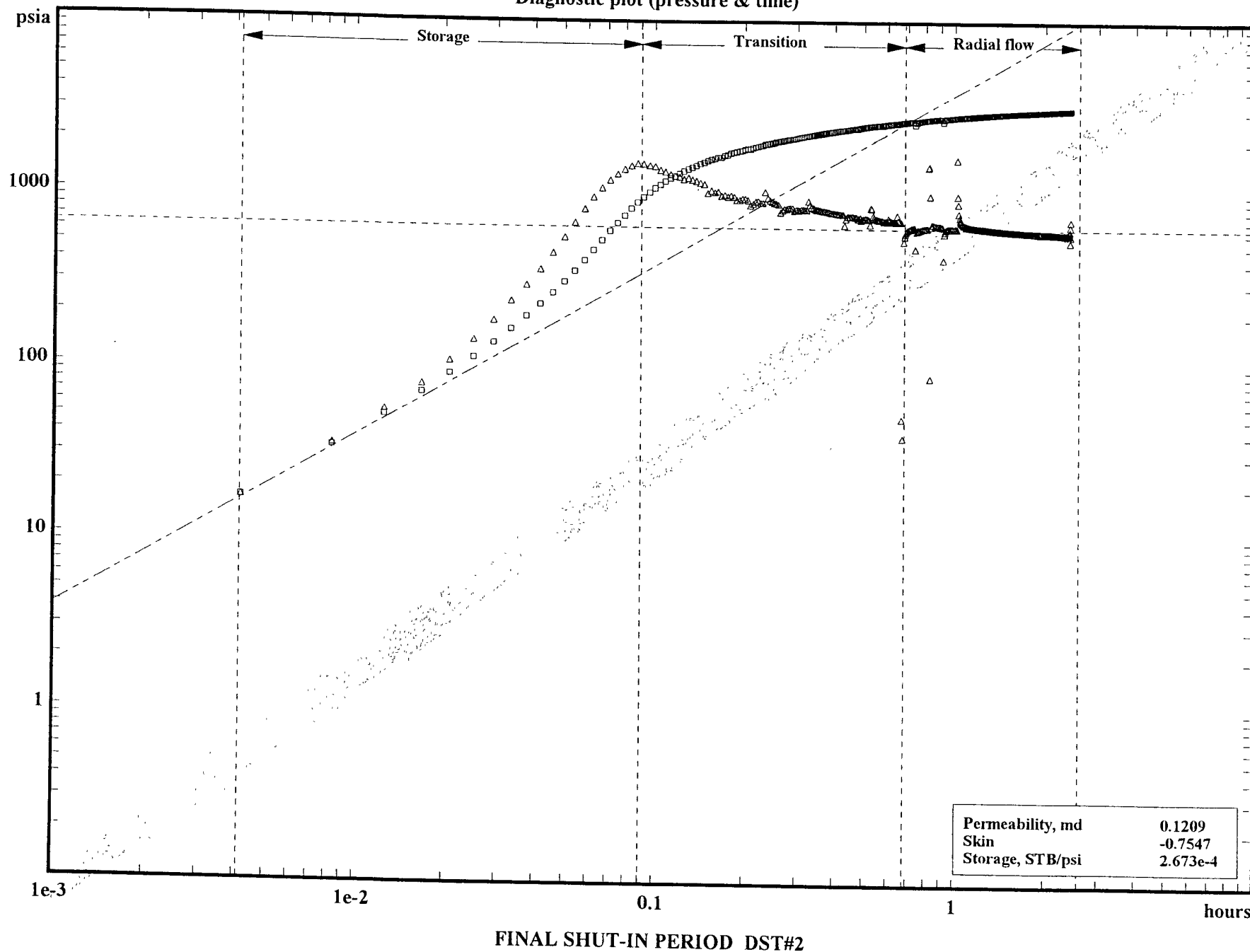
PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2

Variable rate Horner plot (pressure & time)



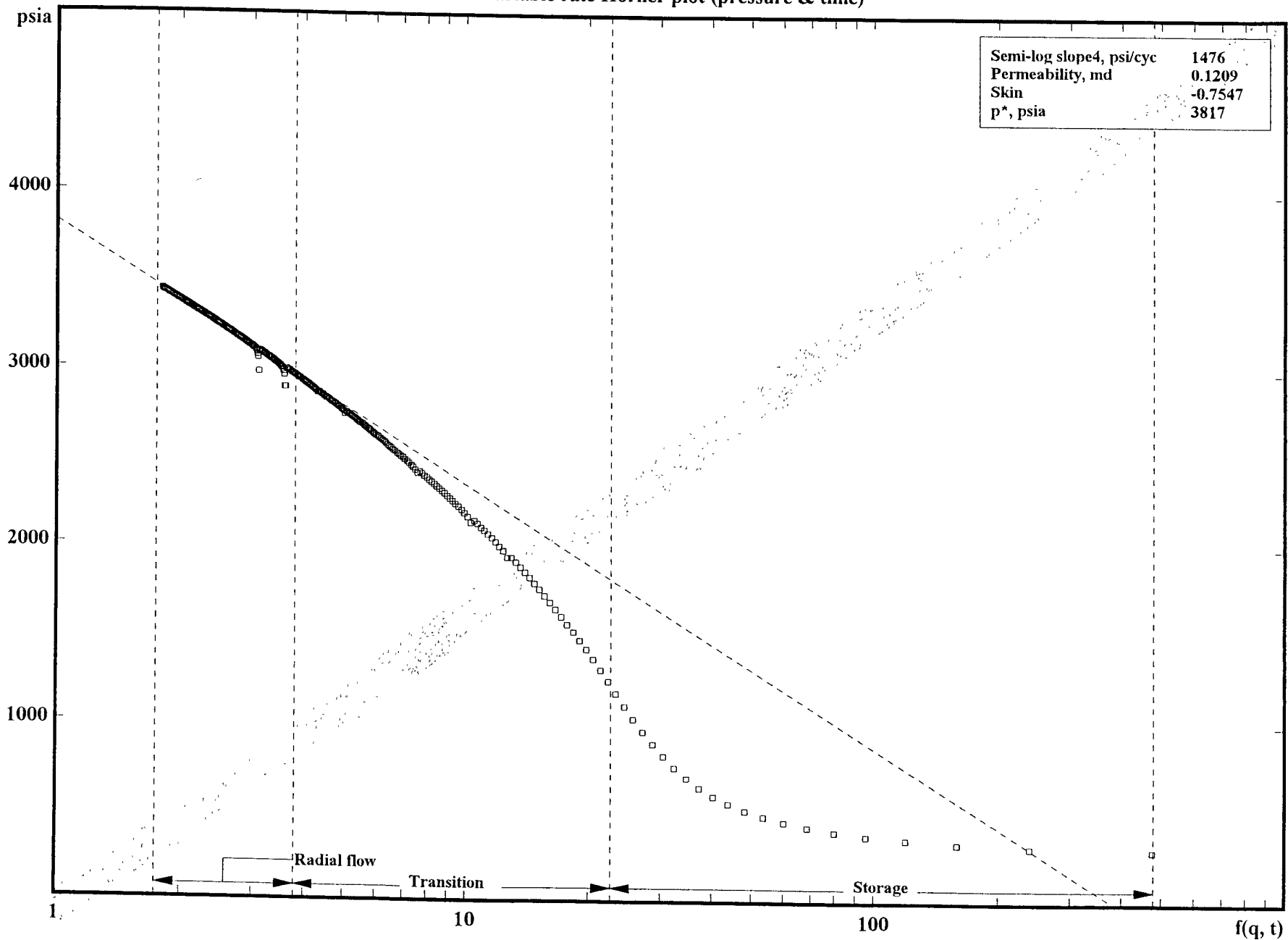
PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2

Diagnostic plot (pressure & time)



PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2

Variable rate Horner plot (pressure & time)



FINAL SHUT-IN PERIOD DST#2



PATTERSON PETROLEUM L.P. COOPER "24" FED COM #2

Cartesian plot (pressure & time)

