



30-025-39737

COMPANY : CML EXPLORATION, LLC
LEASE : ABENAKI "10" STATE
WELL NO. : # 1
FIELD : SANMAL (PENN)
COUNTY/STATE : LEA / NEW MEXICO

RECEIVED

AUG 30 2010

HOBBSOCD

TEST DATE : 06/16/10
D.S.T. NO. : 2
TEST TKT. NO. : 25525
INVOICE NO. : 23438
ORDER NO. :

FORMATION : UPPER WOLFCAMP
INTERVAL (ft) : 10254 TO 10299
TOTAL DEPTH (ft): 10299
ELEVATION (ft) : 4163

HOLE SIZE (in) : 7.875
DRILL PIPE ID (in) : 3.82
DRILL COLLAR ID(in): 2.25
DRILL COLLAR feet : 728

ANCHOR LENGTH (ft): 45
TOOL LENGTH (ft) : 55
TOOL O.D. (in) : 5
PACKER SIZE (in) : 7.00

RECORDER DATA
AK-1KUSTER / STELLAR

TOP RECORDER: IN
RECORDER NO. : 22239
CAPACITY (psi): 10000
DEPTH (ft) : 10260
CLOCK NO. : 22239
DURATION (hrs): 99

BOTTOM RECORDER: OUT
RECORDER NO. : 13481
CAPACITY (psi): 8025
DEPTH (ft) : 10296
CLOCK NO. : 22979
DURATION (hrs): 24

MUD PROPERTIES

MUD TYPE : CHEM / GEL
MUD WT. (#/gal) : 8.60

WATER LOSS (cc) : 10.0
FILTER CAKE (in) : FILM
VISCOSITY (sec) : 35

CHLORIDE PPM : 2000
RESISTIVITY(ohm-m): 1.45

EQUIPMENT DATA

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 : YES
OTHER : YES
STELLAR 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 : 10:45 AM

TOTAL TEST TIME: 273

INITIAL FLOW : 30
SECOND FLOW : 60
THIRD FLOW :

INITIAL SHUT-IN: 60
SECOND SHUT-IN : 123
THIRD SHUT IN :

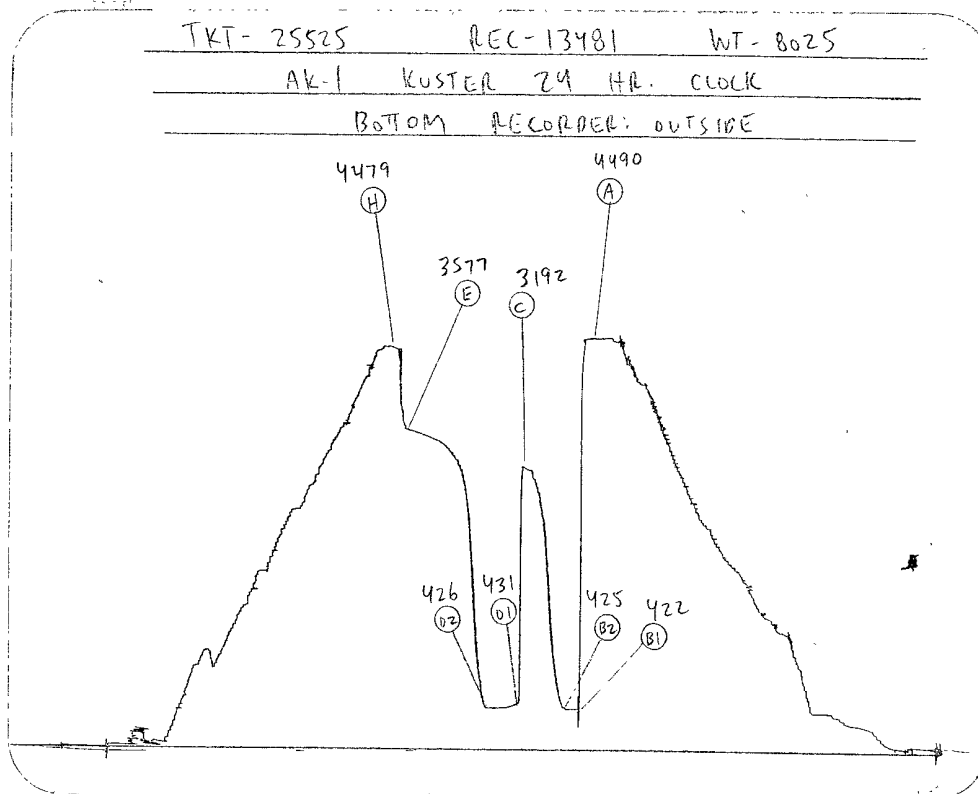
TEST TOOL OPERATOR: TOMMY WILLIAMS



CML EXPLORATION, LLC

ABENAKI "10" STATE # 1
D.S.T. NO. :2

	CORRECTED READING	FIELD READING
A INITIAL HYDROSTATIC:	4476 PSI	4476 PSI
B-1 INITIAL FIRST FLOW :	406 PSI	406 PSI
B-2 FINAL FIRST FLOW :	408 PSI	408 PSI
C FIRST SHUT-IN :	3179 PSI	3179 PSI
D-1 INITIAL SECOND FLOW:	400 PSI	401 PSI
D-2 FINAL SECOND FLOW :	409 PSI	408 PSI
E SECOND SHUT-IN :	3564 PSI	3564 PSI
H FINAL HYDROSTATIC :	4465 PSI	4465 PSI



RECOVERY DATA

PIPE RECOVERY B.H. TEMP. (deg F) : 137
(RAN 855 FT. OF FRESH WATER BLANKET)

500 FT. OF GAS IN PIPE
1005 FT. OF TOTAL FLUID
150 FT. OF GAS & OIL CUT WATER BLANKET (20% OIL)
735 FT. HEAVY GAS CUT WATER BLANKET (TRACE OF OIL)
120 FT. OF GAS CUT MUD (TRACE OF OIL)

SAMPLE CHAMBER

375 LBS. OF PRESSURE
0.75 CU. FT. OF GAS
400 CC'S OF FREE OIL
(39.5 GRAVITY @ 60 DEGREES)
1200 CC'S OF DRLG. MUD
W/TRACE OF OIL

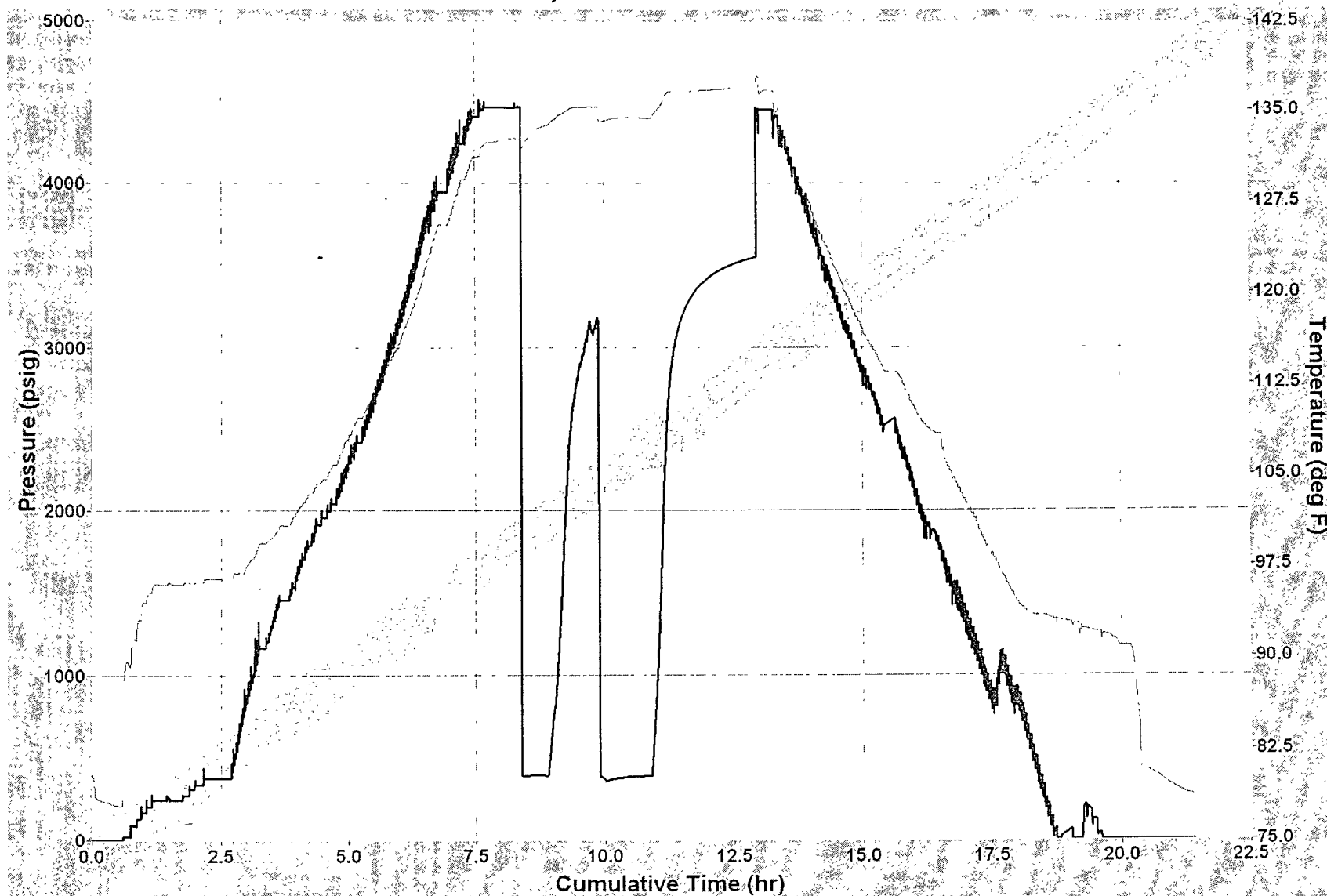
TEST REMARKS

TOOL OPENED WITH A VERY WEAK BLOW (1/8" IN WATER) WHICH BUILT TO (1" IN WATER) AT END OF THE 30 MIN. FIRST FLOW PERIOD. REOPENED TOOL WITH A FAIR BLOW (5" IN WATER) WHICH BUILT TO A GOOD BLOW (BOTTOM OF BUCKET) ON 3/16" CHOKE IN 17 MIN., 11 OZS. IN 30 MIN. & 15 OZS. ON 3/16" CHOKE AT END OF THE 60 MIN. FINAL FLOW PERIOD.

Company Name CML EXPLORATION, LLC
Well Name ABENAKI "10" STATE #1
Type of Test DST #2 (10,254-10,299 FT., UPPER WOLFCAMP)
Date(s) of Test 6-16-10



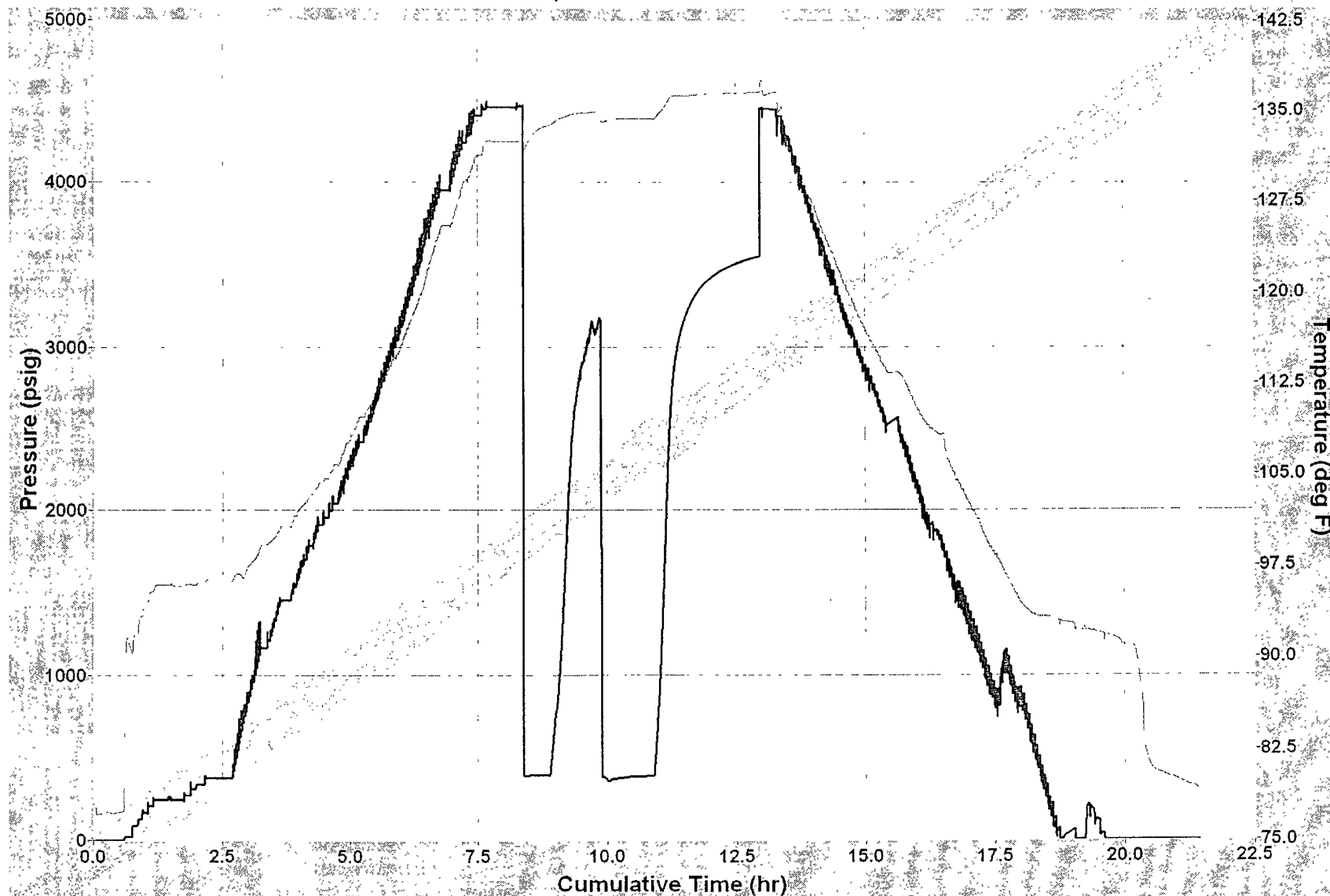
RIG TESTERS, INC. RECORDER# 22239



Company Name CML EXPLORATION, LLC
Well Name ABENAKI "10" STATE #1
Type of Test DST #2 (10,254-10,299 FT , UPPER WOLFCAMP)
Date(s) of Test 6-16-10



RIG TESTERS, INC. RECORDER# 22240



INCREMENTAL PRESSURE DATA

RECORDER NO : 22239

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 10260 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			406.40	.00
2.0	2.0			407.31	.91
4.0	4.0			408.21	1.81
6.0	6.0			409.00	2.60
8.0	8.0			409.80	3.40
10.0	10.0			410.21	3.81
12.0	12.0			410.60	4.20
14.0	14.0			410.90	4.50
16.0	16.0			411.11	4.71
18.0	18.0			411.70	5.30
20.0	20.0			411.60	5.20
22.0	22.0			411.40	5.00
24.0	24.0			411.10	4.70
26.0	26.0			410.58	4.18
28.0	28.0			409.79	3.39
30.0	30.0			408.60	2.20
30.2	30.2			408.30	1.90
FIRST SHUT-IN					
30.2	30.2	.00	.000	408.30	.00
30.7	30.2	.50	61.480	430.03	21.73
31.2	30.2	1.00	31.240	452.87	44.57
31.7	30.2	1.50	21.160	478.80	70.50
32.2	30.2	2.00	16.120	505.78	97.48
32.7	30.2	2.50	13.096	530.02	121.72
33.2	30.2	3.00	11.080	557.50	149.20
33.7	30.2	3.50	9.640	585.95	177.65
34.2	30.2	4.00	8.560	611.67	203.37
34.7	30.2	4.50	7.720	640.70	232.40
35.2	30.2	5.00	7.048	670.40	262.10
36.2	30.2	6.00	6.040	727.40	319.10
37.2	30.2	7.00	5.320	777.65	369.35
38.2	30.2	8.00	4.780	810.43	402.13
39.2	30.2	9.00	4.360	846.10	437.80
40.2	30.2	10.00	4.024	910.45	502.15
42.2	30.2	12.00	3.520	1060.40	652.10
44.2	30.2	14.00	3.160	1230.29	821.99
46.2	30.2	16.00	2.890	1421.67	1013.37
48.2	30.2	18.00	2.680	1654.90	1246.60
50.2	30.2	20.00	2.512	1898.22	1489.92
53.2	30.2	23.00	2.315	2199.17	1790.87
56.2	30.2	26.00	2.163	2452.68	2044.38
59.2	30.2	29.00	2.043	2622.44	2214.14
62.2	30.2	32.00	1.945	2729.10	2320.80
65.2	30.2	35.00	1.864	2829.72	2421.42

INCREMENTAL PRESSURE DATA

RECORDER NO : 22239

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 10260 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					
68.2	30.2	38.00	1.796	2915.07	2506.77
71.2	30.2	41.00	1.738	2965.74	2557.44
74.2	30.2	44.00	1.687	3036.07	2627.77
77.2	30.2	47.00	1.643	3092.46	2684.16
80.2	30.2	50.00	1.605	3164.51	2756.21
83.2	30.2	53.00	1.571	3089.60	2681.30
86.2	30.2	56.00	1.540	3130.86	2722.56
89.2	30.2	59.00	1.513	3182.65	2774.35
90.0	30.2	59.76	1.506	3179.40	2771.10
SECOND FLOW					
91.0	31.2			400.00	.00
94.0	34.2			396.00	-4.00
97.0	37.2			382.60	-17.40
100.0	40.2			377.20	-22.80
103.0	43.2			387.20	-12.80
106.0	46.2			389.50	-10.50
109.0	49.2			392.00	-8.00
112.0	52.2			393.80	-6.20
115.0	55.2			395.70	-4.30
118.0	58.2			397.70	-2.30
121.0	61.2			398.80	-1.20
124.0	64.2			401.80	1.80
127.0	67.2			401.70	1.70
130.0	70.2			402.80	2.80
133.0	73.2			403.10	3.10
136.0	76.2			403.10	3.10
139.0	79.2			404.10	4.10
142.0	82.2			405.80	5.80
145.0	85.2			407.00	7.00
148.0	88.2			408.50	8.50
150.7	91.0			409.20	9.20
SECOND SHUT-IN					
150.7	91.0	.00	.000	409.20	.00
151.7	91.0	1.00	91.960	473.95	64.75
152.7	91.0	2.00	46.480	548.91	139.71
153.7	91.0	3.00	31.320	630.90	221.70
154.7	91.0	4.00	23.740	711.28	302.08
155.7	91.0	5.00	19.192	795.61	386.41

INCREMENTAL PRESSURE DATA

RECORDER NO : 22239

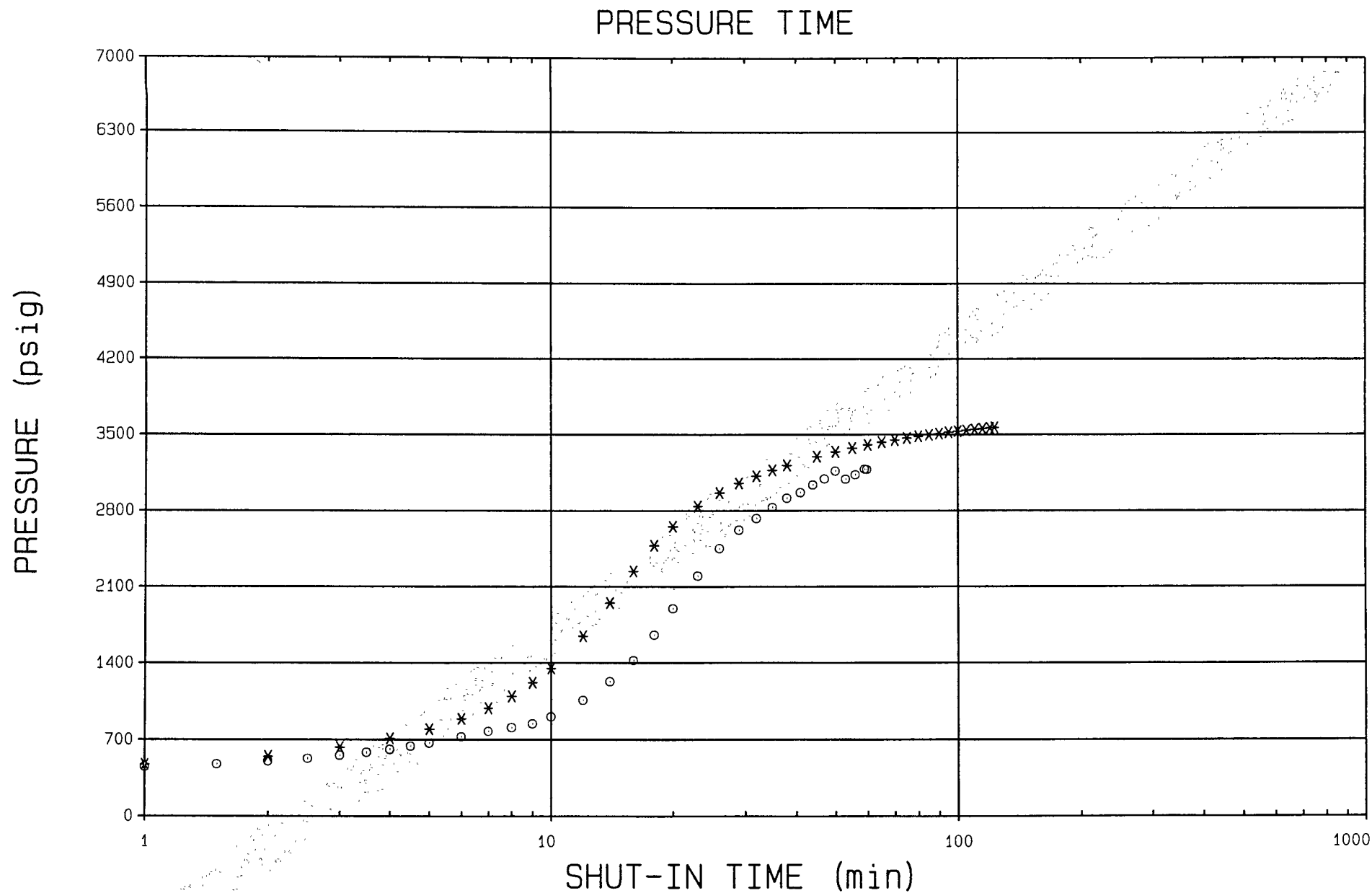
RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 10260 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			
156.7	91.0	6.00	16.160	889.90	480.70
157.7	91.0	7.00	13.994	988.04	578.84
158.7	91.0	8.00	12.370	1096.20	687.00
159.7	91.0	9.00	11.107	1221.30	812.10
160.7	91.0	10.00	10.096	1349.41	940.21
162.7	91.0	12.00	8.580	1643.40	1234.20
164.7	91.0	14.00	7.497	1949.63	1540.43
166.7	91.0	16.00	6.685	2241.30	1832.10
168.7	91.0	18.00	6.053	2479.30	2070.10
170.7	91.0	20.00	5.548	2653.81	2244.61
173.7	91.0	23.00	4.955	2838.52	2429.32
176.7	91.0	26.00	4.498	2963.14	2553.94
179.7	91.0	29.00	4.137	3052.05	2642.85
182.7	91.0	32.00	3.843	3119.33	2710.13
185.7	91.0	35.00	3.599	3172.77	2763.57
188.7	91.0	38.00	3.394	3217.05	2807.85
195.7	91.0	45.00	3.021	3297.80	2888.60
200.7	91.0	50.00	2.819	3340.95	2931.75
205.7	91.0	55.00	2.654	3376.37	2967.17
210.7	91.0	60.00	2.516	3405.30	2996.10
215.7	91.0	65.00	2.399	3429.35	3020.15
220.7	91.0	70.00	2.299	3449.83	3040.63
225.7	91.0	75.00	2.213	3467.50	3058.30
230.7	91.0	80.00	2.137	3482.71	3073.51
235.7	91.0	85.00	2.070	3496.25	3087.05
240.7	91.0	90.00	2.011	3508.40	3099.20
245.7	91.0	95.00	1.957	3519.03	3109.83
250.7	91.0	100.00	1.910	3528.86	3119.66
255.7	91.0	105.00	1.866	3537.70	3128.50
260.7	91.0	110.00	1.827	3545.66	3136.46
265.7	91.0	115.00	1.791	3553.27	3144.07
270.7	91.0	120.00	1.758	3560.20	3151.00
273.7	91.0	123.00	1.740	3564.10	3154.90

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 E-MAIL OR DISKETTE UPON REQUEST)



CML EXPLORATION, LLC
ABENAKI "10" STATE # 1

○ FIRST SHUT-IN
* SECOND SHUT-IN



RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM

CML EXPLORATION, LLC ABENAKI "10" STATE #1



Well identification

Well ID	ABENAKI"10" ST.#1	Well location	N.W. HOBBS
County/District	LEA	State, Country	NEW MEXICO
Company	CML EXPLO.	Division	SNYDER

Fluid properties

Prod/Inj fluid	OIL	GOR	500:1
Water cut	0%	Condensate yield	UNKNOWN
API gravity	39.5	Gas spec. grav.	0.7
Viscosity	0.87438 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)	13.75 e-6/psi	Formation vol factor	1.266 RB/STB

Reservoir properties

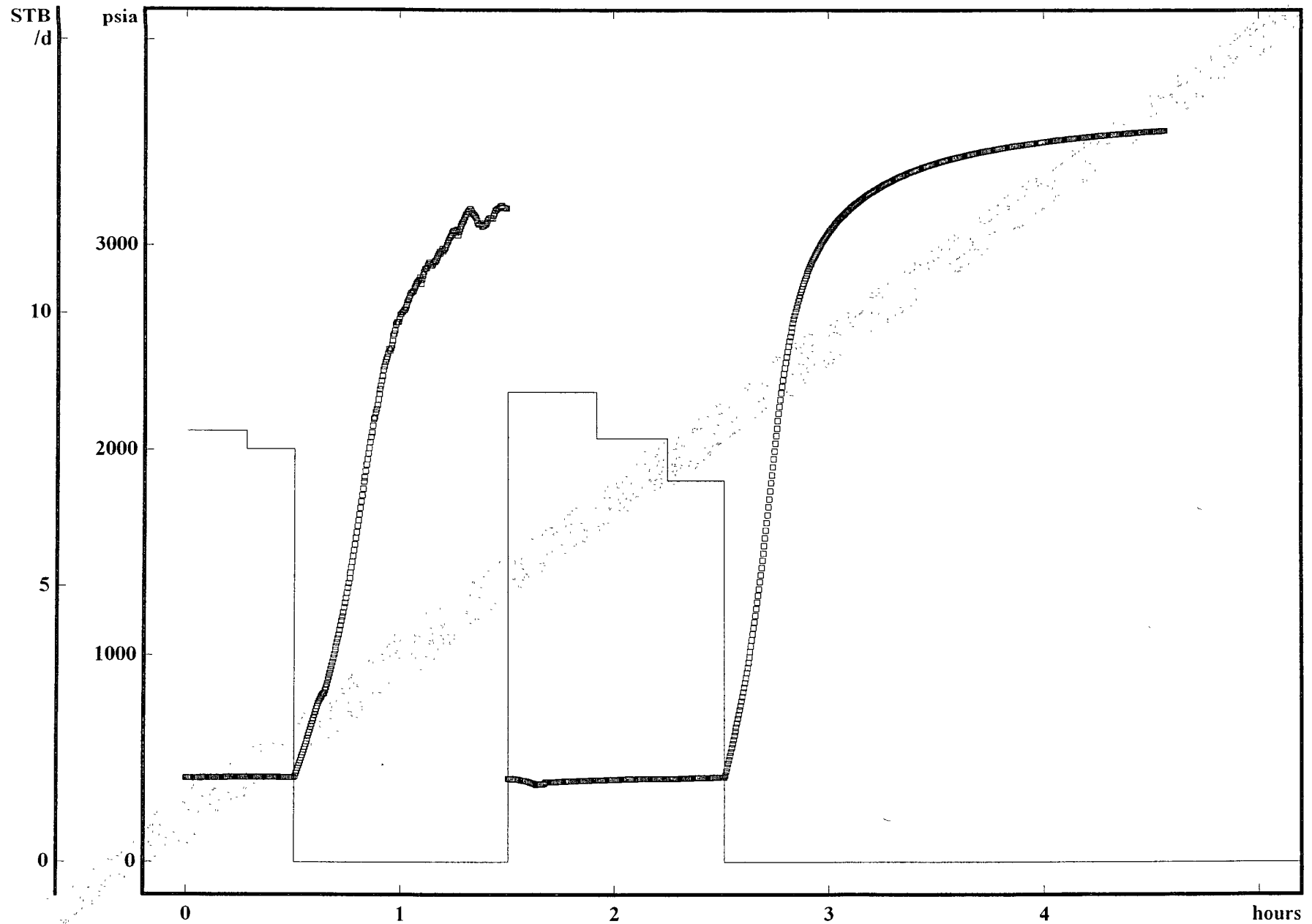
Porosity	0.12 frac	Formation thickness	15 ft
Wellbore radius	0.32813 ft	Prod-observer distance	N/A
Water-Oil Contact	UNKNOWN	Gas-Oil Contact	N/A
Gas-Water Contact	N/A	Rock compressibility	
Reservoir temperature	137 deg F	Pressure for properties	3763 psia

Comments

THE DERIVATIVES INDICATE A RESERVOIR WITH LOW PERMEABILITY AND MODERATELY HIGH (POSITIVE) SKIN. BOTH SHUT-IN PERIODS WERE IN TRANSITION TOWARDS BUT HAD NOT QUITE REACHED RADIAL FLOW WHICH WOULD NORMALLY MAKE CALCULATIONS UNDER THESE CONDITIONS AMBIGUOUS & UNRELIABLE. HOWEVER, THERE WAS ENOUGH TRANSITION ON THE FINAL SHUT-IN TO WHERE A REGRESSION VERIFIED MODEL "PRESSURE MATCH" WAS PERFORMED IN AN ATTEMPT TO BETTER DETERMINE FORMATION PARAMETERS & ALTHOUGH CALCULATIONS MAY STILL BE SUBJECT TO QUESTION; REGRESSION SHOWS A GOOD FIT AND CONFIDENCE INTERVALS (MARGIN OF ERROR) NEXT TO MAJOR PARAMETERS. THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 15 FT. OF NET PAY AND AN AVERAGE (TIME WEIGHTED) PRODUCTION OF 7 BOPD FOR THE FINAL FLOW. THE RATES WERE BASED DENSITY OF FLUIDS RECOVERED VS. FLOWING PRESSURES. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO APPROX. 12 FT. FROM THE WELLBORE.

CML EXPLORATION, LLC ABENAKI "10" STATE #1

Pressure and flow rate vs time during test sequence

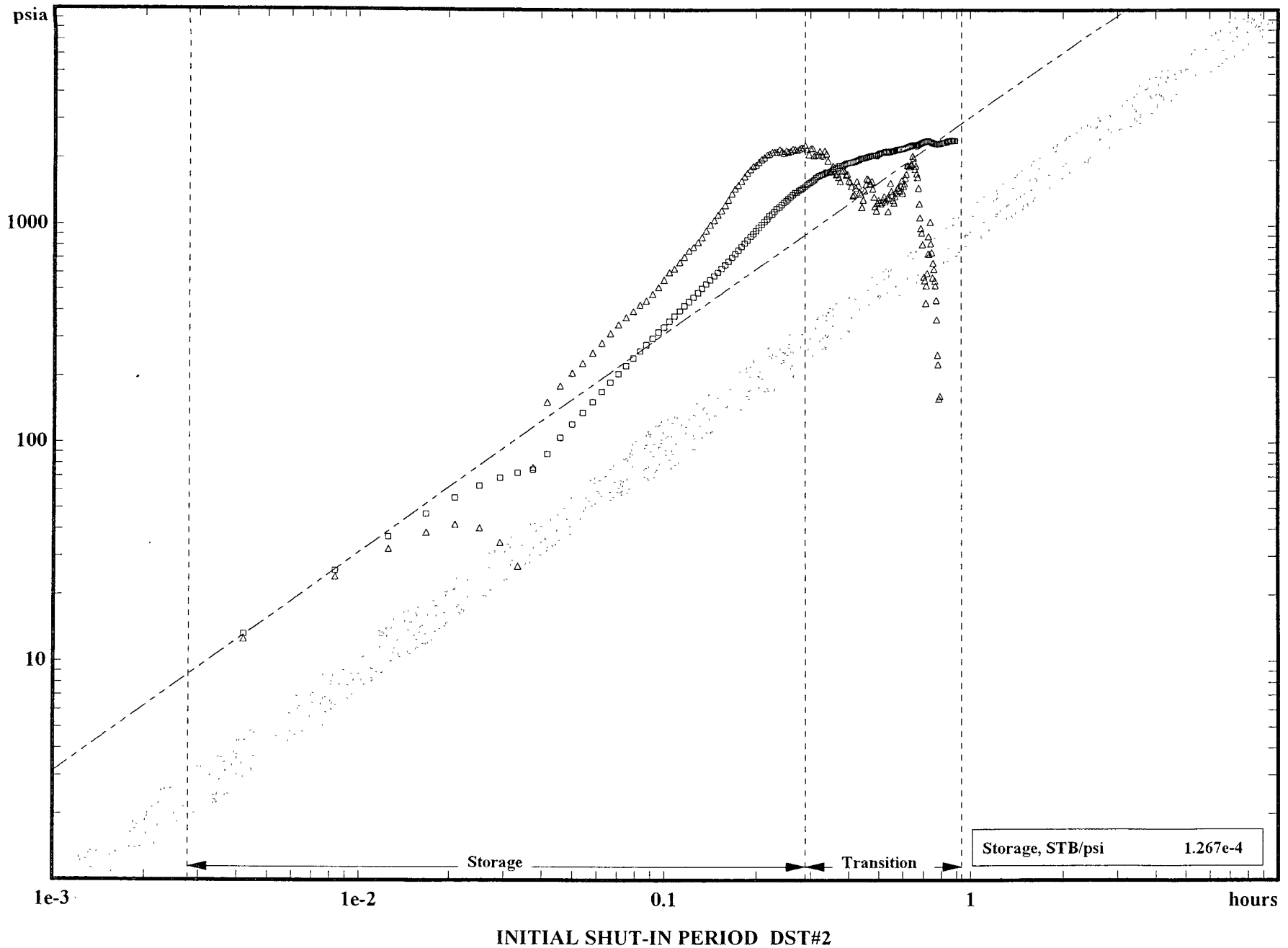


DST #2 10,254 - 10,299 FT.; UPPER WOLFCAMP



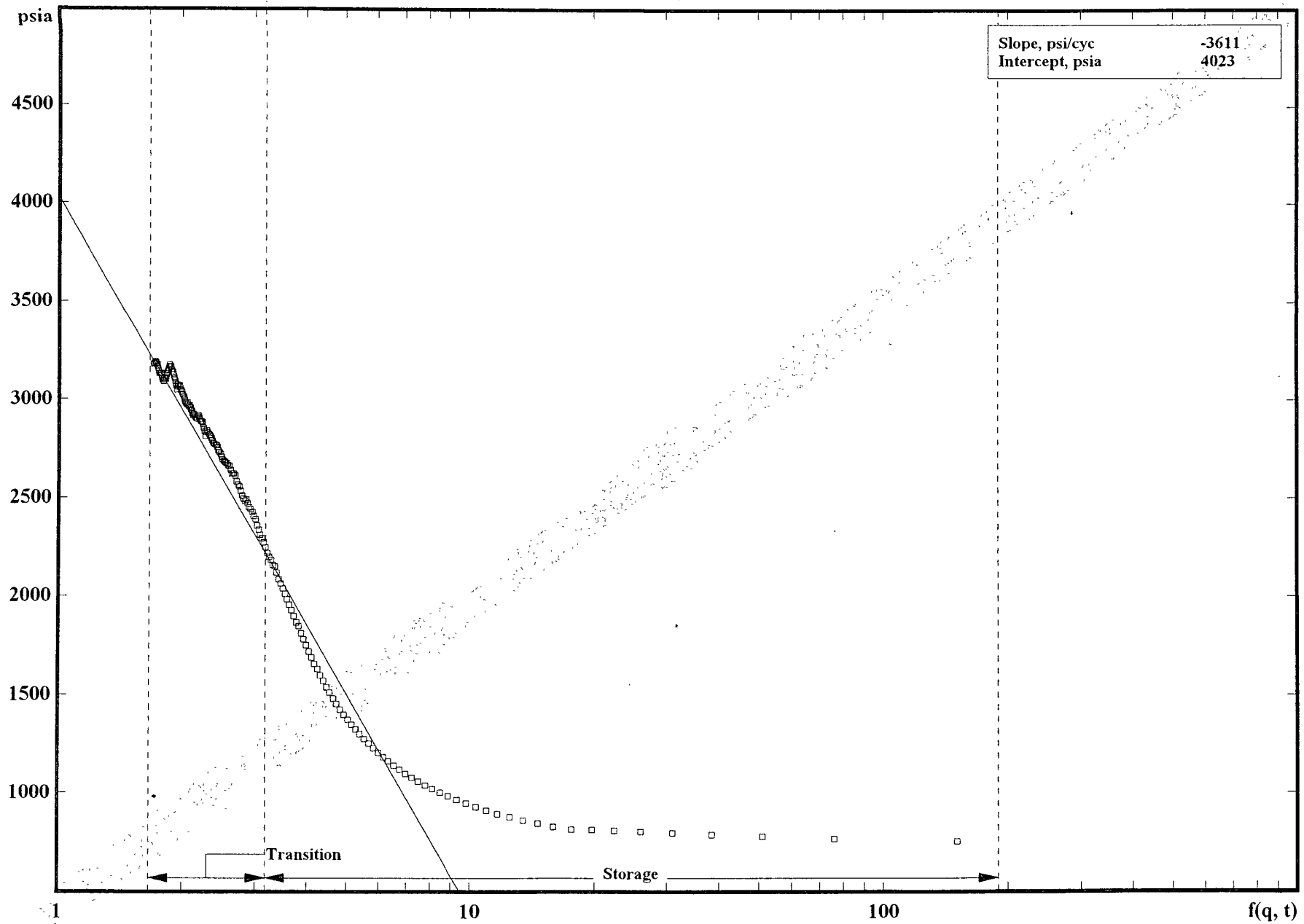
CML EXPLORATION, LLC ABENAKI "10" STATE #1

Diagnostic plot (pressure & time)



CML EXPLORATION, LLC ABENAKI "10" STATE #1

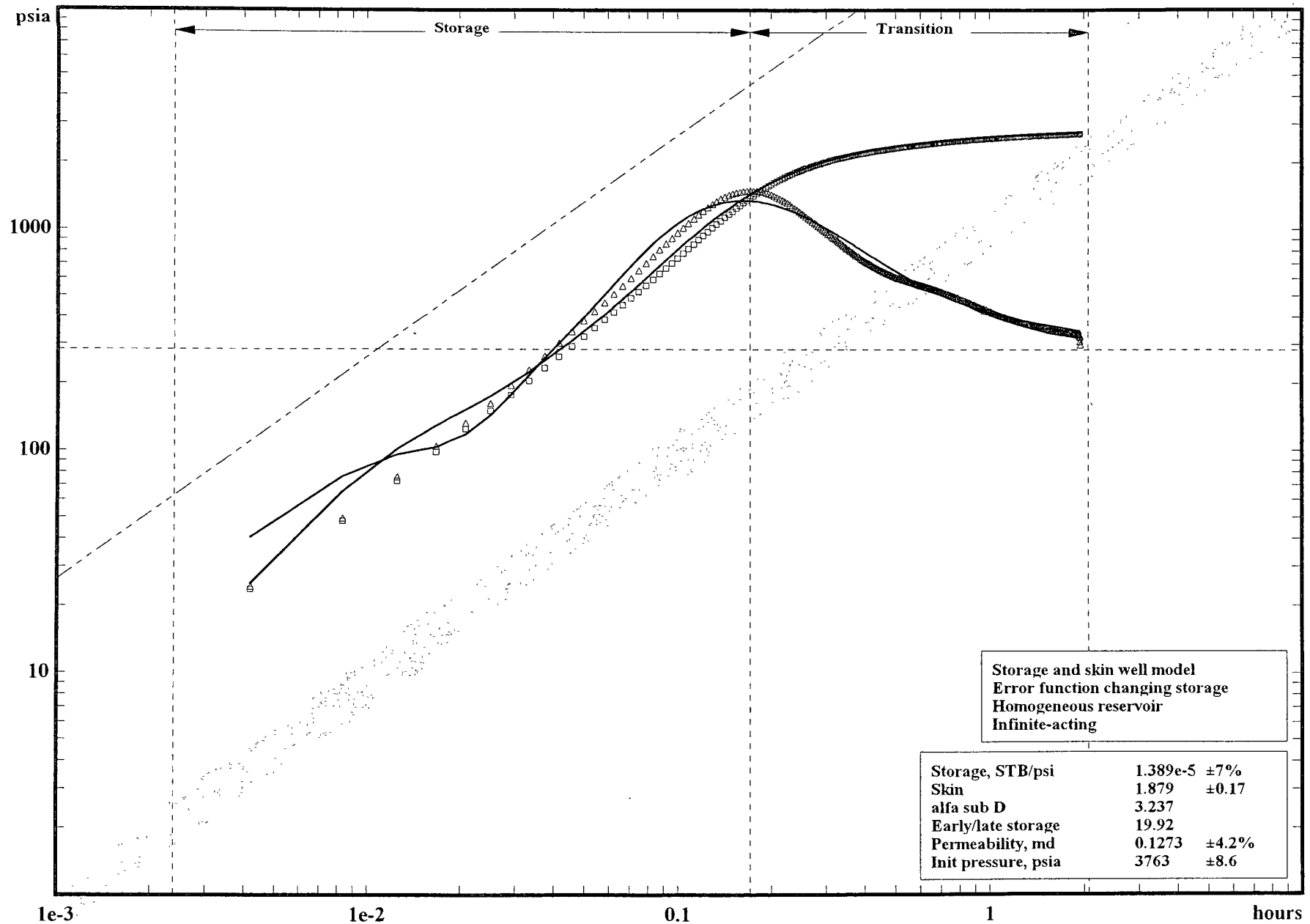
Variable rate Horner plot (pressure & time)



INITIAL SHUT-IN PERIOD DST#2

CML EXPLORATION, LLC ABENAKI "10" STATE #1

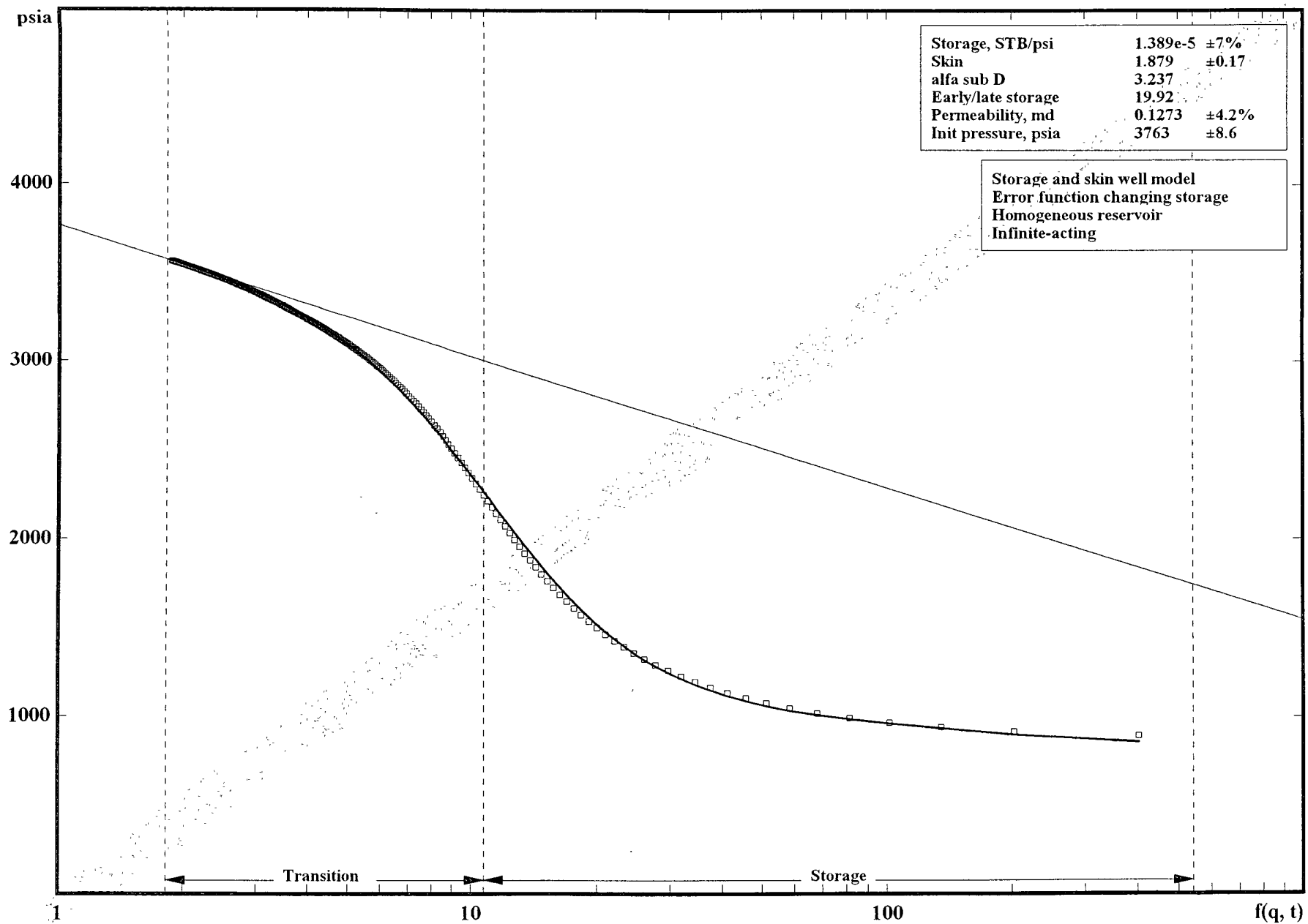
Diagnostic plot (pressure & time)



FINAL SHUT-IN PERIOD DST#2 REGRESSION VERIFIED MODEL

CML EXPLORATION, LLC ABENAKI "10" STATE #1

Variable rate Horner plot (pressure & time)

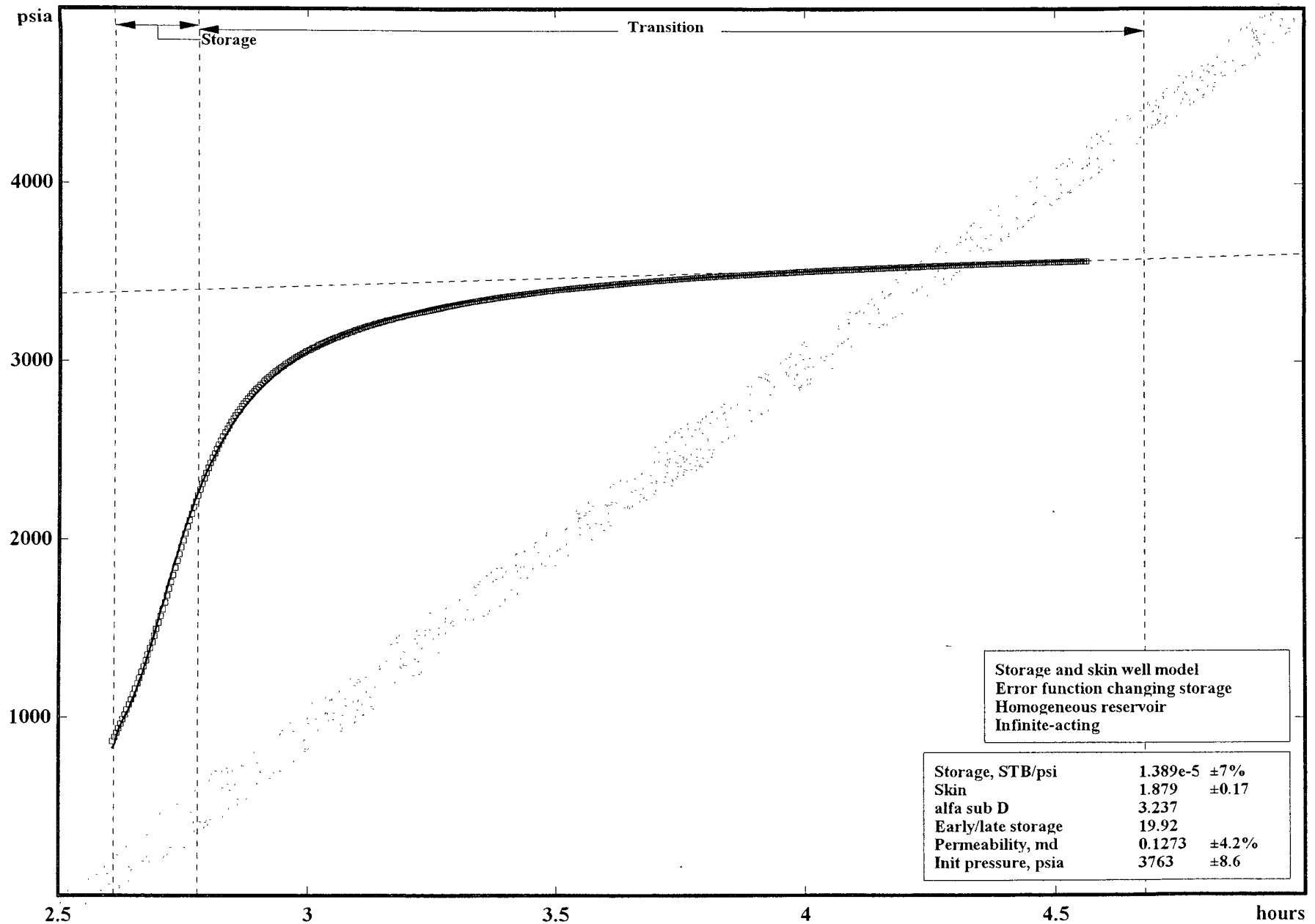


FINAL SHUT-IN PERIOD DST#2 REGRESSION VERIFIED MODEL



CML EXPLORATION, LLC ABENAKI "10" STATE #1

Cartesian plot (pressure & time)



FINAL SHUT-IN PERIOD DST#2 REGRESSION VERIFIED MODEL

FORMATION
TEST REPORT



CORPORATE OFFICE:

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432-570-0421

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