



COMPANY : PECOS PRODUCTION COMPANY
LEASE : QUERECHO PLAINS UNIT
WELL NO. : # 2
FIELD : N. LUSK MORROW
COUNTY/STATE : LEA / NEW MEXICO

TEST DATE : 03/02/04
D.S.T. NO. : 1
TEST TKT. NO. : 22785
INVOICE NO. : 20740
ORDER NO. :

FORMATION : STRAWN LIME
INTERVAL (ft) : 11496 TO 11795
TOTAL DEPTH (ft) : 11795
ELEVATION (ft) : 3773

HOLE SIZE (in) : 7.875
DRILL PIPE ID (in) : 3.82
DRILL COLLAR ID(in): 2.25
DRILL COLLAR feet : 605

ANCHOR LENGTH (ft): 299
TOOL LENGTH (ft) : 54
TOOL O.D. (in) : 5
PACKER SIZE (in) : 7.00

RECORDER DATA
AK-1KUSTER / ZIPROBE

TOP RECORDER: IN
RECORDER NO. : 50014
CAPACITY (psi): 10000
DEPTH (ft) : 11500
CLOCK NO. : 50014
DURATION (hrs): 99

BOTTOM RECORDER: OUT
RECORDER NO. : 13546
CAPACITY (psi): 8125
DEPTH (ft) : 11792
CLOCK NO. : 18405
DURATION (hrs): 24

MUD PROPERTIES

MUD TYPE : CUTBRINE/STARCH
MUD WT. (#/gal) : 9.40

WATER LOSS (cc) : 6.00
FILTER CAKE (in) : FILM
VISCOSITY (sec) : 31

CHLORIDE PPM : 102000
RESISTIVITY(ohm-m): .094

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 : YES

MULTIFLOW : NO
MILEAGE : NO
OPERATOR TIME : NO
OTHER : 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 : 3:00 AM

TOTAL TEST TIME : 452

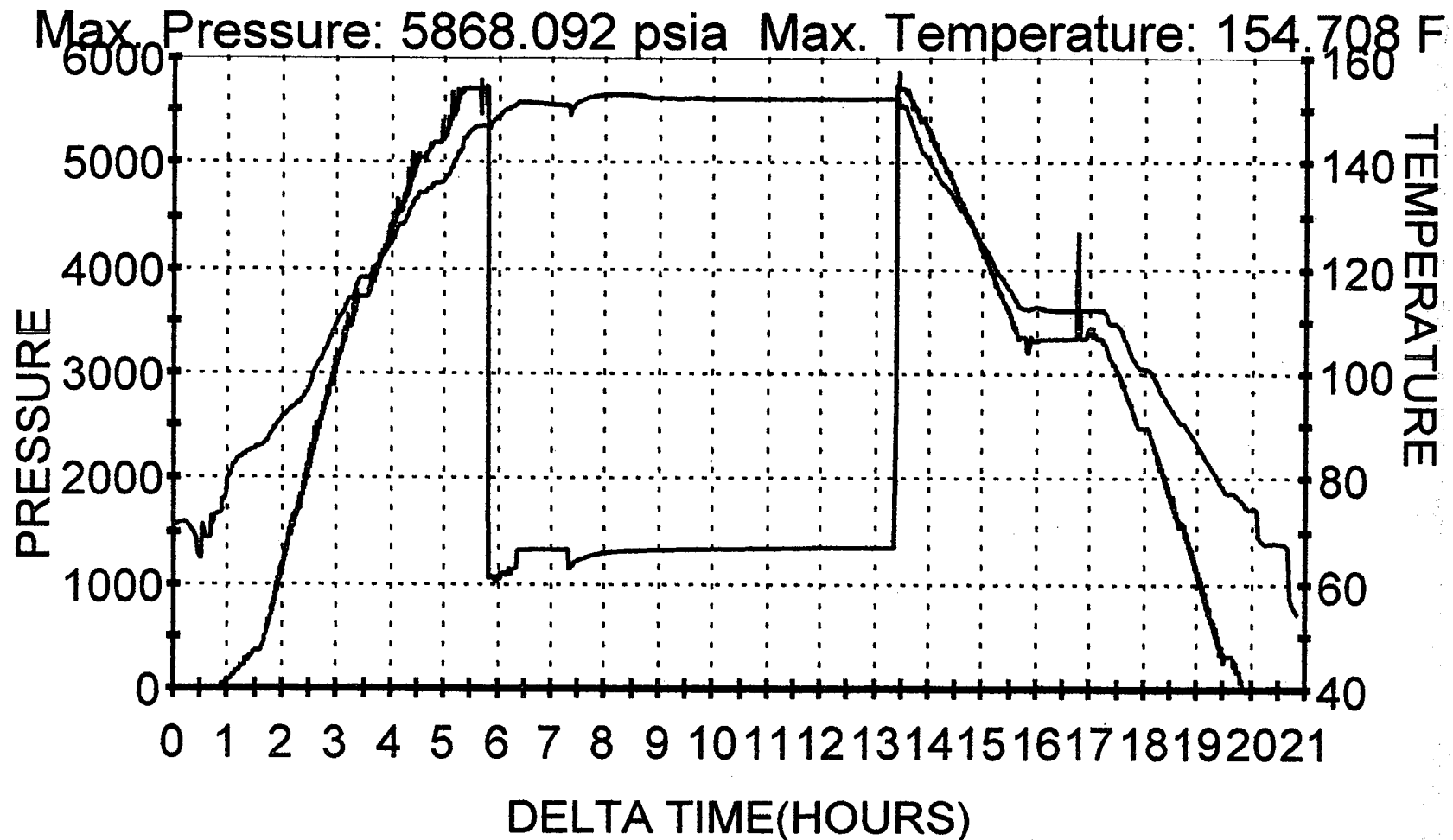
INITIAL FLOW : 31
SECOND FLOW : 120
THIRD FLOW :

INITIAL SHUT-IN: 58
SECOND SHUT-IN : 242
THIRD SHUT IN :

TEST TOOL OPERATOR: DON TERHUNE

PRESSURE AND TEMPERATURE VS DELTA TIME

Company: Pecos Production
Location: Querecho Plains Unit#2
Date: March 2 2004 DST #1
Serial# 50014

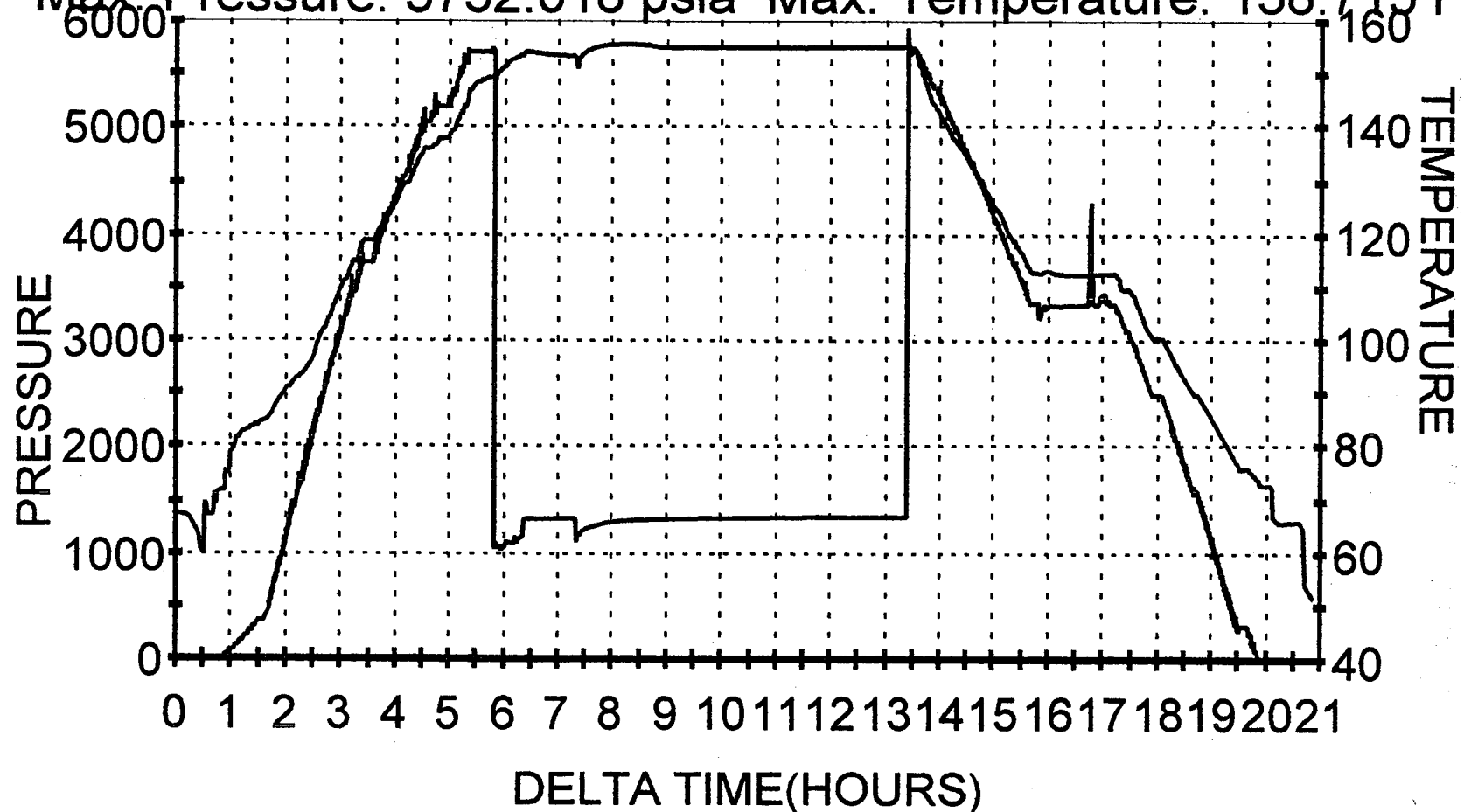


PRESSURE AND TEMPERATURE VS DELTA TIME

Company: Pecos Production
Location: Quereccho Plains Unit #2
Date: March 2 2004 DST #1

Serial# 9628

Max. Pressure: 5752.018 psia Max. Temperature: 158.715 F



INCREMENTAL PRESSURE DATA

RECORDER NO : 50014

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 11500 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			1074.40	.00
2.0	2.0			1067.28	-7.12
4.0	4.0			1079.10	4.70
6.0	6.0			1064.00	-10.40
8.0	8.0			1074.21	-.19
10.0	10.0			1076.91	2.51
12.0	12.0			1073.40	-1.00
14.0	14.0			1111.67	37.27
16.0	16.0			1116.20	41.80
18.0	18.0			1107.10	32.70
20.0	20.0			1089.76	15.36
22.0	22.0			1154.55	80.15
24.0	24.0			1160.30	85.90
26.0	26.0			1142.16	67.76
28.0	28.0			1166.05	91.65
30.0	30.0			1168.70	94.30
31.5	31.5			1181.40	107.00
FIRST SHUT-IN					
31.5	31.5	.00	.000	1181.40	.00
32.0	31.5	.50	64.000	1331.16	149.76
32.5	31.5	1.00	32.500	1333.72	152.32
33.0	31.5	1.50	22.000	1334.70	153.30
33.5	31.5	2.00	16.750	1335.52	154.12
34.0	31.5	2.50	13.600	1336.13	154.73
34.5	31.5	3.00	11.500	1336.50	155.10
35.0	31.5	3.50	10.000	1337.02	155.62
35.5	31.5	4.00	8.875	1337.43	156.03
36.0	31.5	4.50	8.000	1337.70	156.30
36.5	31.5	5.00	7.300	1338.02	156.62
37.5	31.5	6.00	6.250	1338.40	157.00
38.5	31.5	7.00	5.500	1338.72	157.32
39.5	31.5	8.00	4.938	1338.91	157.51
40.5	31.5	9.00	4.500	1339.10	157.70
41.5	31.5	10.00	4.150	1339.32	157.92
43.5	31.5	12.00	3.625	1339.50	158.10
45.5	31.5	14.00	3.250	1339.81	158.41
47.5	31.5	16.00	2.969	1340.10	158.70
49.5	31.5	18.00	2.750	1340.30	158.90
51.5	31.5	20.00	2.575	1340.40	159.00
54.5	31.5	23.00	2.370	1340.70	159.30
57.5	31.5	26.00	2.212	1340.90	159.50
60.5	31.5	29.00	2.086	1341.01	159.61
63.5	31.5	32.00	1.984	1341.20	159.80
66.5	31.5	35.00	1.900	1341.40	160.00

INCREMENTAL PRESSURE DATA

RECORDER NO : 50014

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 11500 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					
69.5	31.5	38.00	1.829	1341.60	160.20
72.5	31.5	41.00	1.768	1341.79	160.39
75.5	31.5	44.00	1.716	1341.91	160.51
78.5	31.5	47.00	1.670	1342.10	160.70
81.5	31.5	50.00	1.630	1342.21	160.81
84.5	31.5	53.00	1.594	1342.40	161.00
87.5	31.5	56.00	1.563	1342.69	161.29
89.7	31.5	58.20	1.541	1342.70	161.30
SECOND FLOW					
90.2	32.0			1144.00	.00
95.2	37.0			1215.27	71.27
100.2	42.0			1243.01	99.01
105.2	47.0			1257.60	113.60
110.2	52.0			1269.08	125.08
115.2	57.0			1281.27	137.27
120.2	62.0			1297.60	153.60
125.2	67.0			1302.43	158.43
130.2	72.0			1310.34	166.34
135.2	77.0			1316.40	172.40
140.2	82.0			1321.16	177.16
145.2	87.0			1322.87	178.87
150.2	92.0			1325.40	181.40
155.2	97.0			1327.81	183.81
160.2	102.0			1328.20	184.20
165.2	107.0			1327.80	183.80
170.2	112.0			1333.50	189.50
175.2	117.0			1334.60	190.60
180.2	122.0			1335.60	191.60
185.2	127.0			1336.01	192.01
190.2	132.0			1336.80	192.80
195.2	137.0			1337.60	193.60
200.2	142.0			1338.30	194.30
205.2	147.0			1339.09	195.09
210.5	152.3			1339.60	195.60
SECOND SHUT-IN					
210.5	152.3	.00	.000	1339.60	.00
212.5	152.3	2.00	77.140	1339.90	.30
214.5	152.3	4.00	39.070	1340.10	.50

INCREMENTAL PRESSURE DATA

RECORDER NO : 50014

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 11500 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					
216.5	152.3	6.00	26.380	1340.40	.80
218.5	152.3	8.00	20.035	1340.61	1.01
220.5	152.3	10.00	16.228	1340.80	1.20
222.5	152.3	12.00	13.690	1341.10	1.50
224.5	152.3	14.00	11.877	1341.40	1.80
226.5	152.3	16.00	10.518	1341.60	2.00
228.5	152.3	18.00	9.460	1341.80	2.20
230.5	152.3	20.00	8.614	1342.10	2.50
233.5	152.3	23.00	7.621	1342.40	2.80
236.5	152.3	26.00	6.857	1342.80	3.20
239.5	152.3	29.00	6.251	1343.20	3.60
242.5	152.3	32.00	5.759	1343.50	3.90
245.5	152.3	35.00	5.351	1343.80	4.20
248.5	152.3	38.00	5.007	1344.20	4.60
255.5	152.3	45.00	4.384	1344.90	5.30
260.5	152.3	50.00	4.046	1345.50	5.90
265.5	152.3	55.00	3.769	1346.00	6.40
270.5	152.3	60.00	3.538	1346.50	6.90
275.5	152.3	65.00	3.343	1347.01	7.41
280.5	152.3	70.00	3.175	1347.50	7.90
285.5	152.3	75.00	3.030	1348.10	8.50
290.5	152.3	80.00	2.903	1348.51	8.91
295.5	152.3	85.00	2.792	1349.19	9.59
300.5	152.3	90.00	2.692	1349.60	10.00
305.5	152.3	95.00	2.603	1350.20	10.60
310.5	152.3	100.00	2.523	1350.70	11.10
320.5	152.3	110.00	2.384	1351.90	12.30
330.5	152.3	120.00	2.269	1353.10	13.50
340.5	152.3	130.00	2.171	1354.40	14.80
350.5	152.3	140.00	2.088	1355.60	16.00
360.5	152.3	150.00	2.015	1356.80	17.20
370.5	152.3	160.00	1.952	1357.31	17.71
380.5	152.3	170.00	1.896	1357.10	17.50
390.5	152.3	180.00	1.846	1357.00	17.40
400.5	152.3	190.00	1.801	1357.09	17.49
410.5	152.3	200.00	1.761	1357.00	17.40
420.5	152.3	210.00	1.725	1357.00	17.40
430.5	152.3	220.00	1.692	1356.91	17.31
440.5	152.3	230.00	1.662	1357.00	17.40
450.5	152.3	240.00	1.635	1357.10	17.50

PECOS PRODUCTION COMPANY



QUERECHO PLAINS UNIT # 2
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 50014

RECORDER CAPACITY : 10000 psi

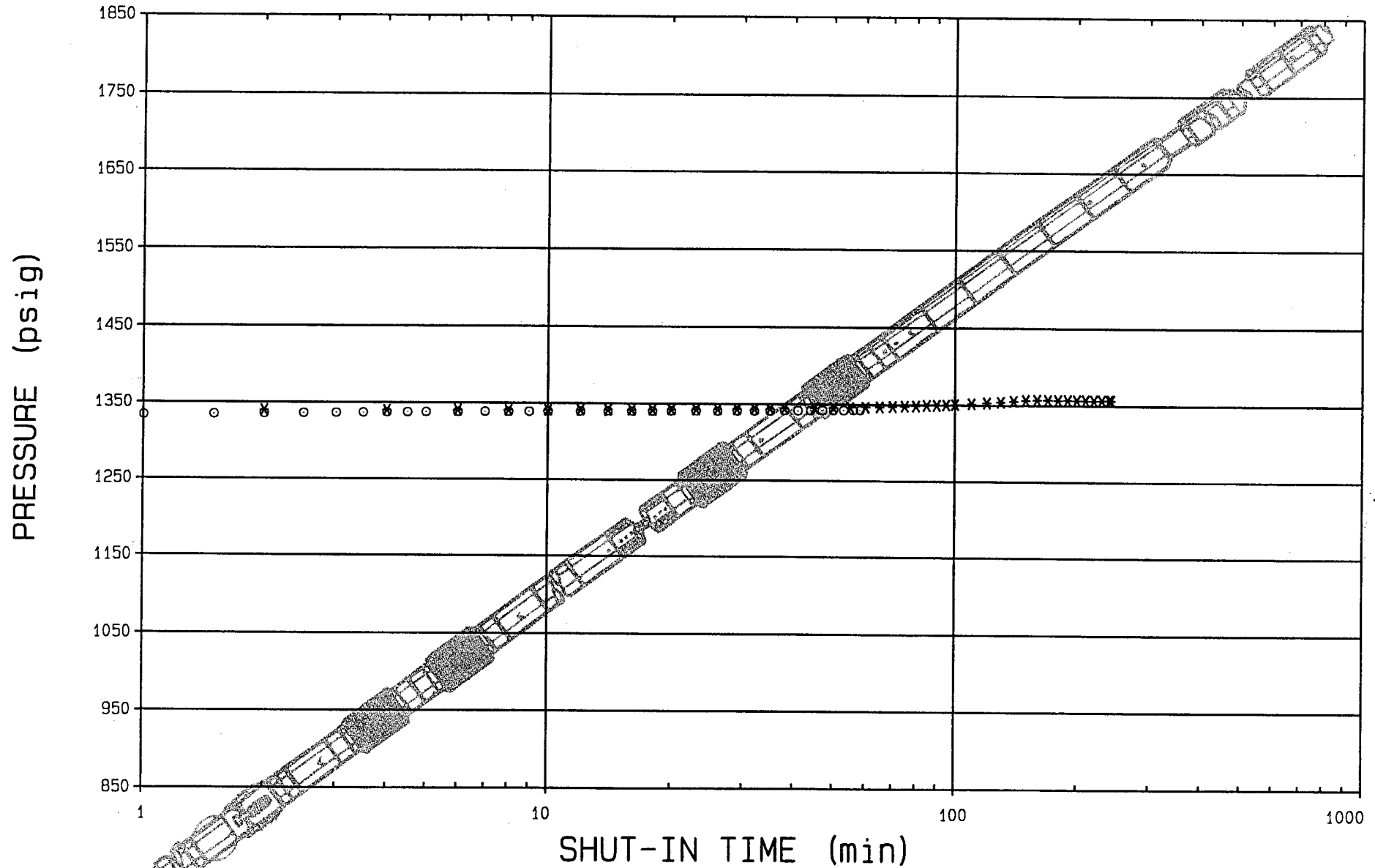
RECORDER DEPTH : 11500 ft

ELAPSED TIME ---MIN----	TOTAL FLOW TIME, T ---MIN----	INCREMENTAL SHUT-IN TIME, DT ---MIN----	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
452.7	152.3	242.22	1.629	1357.00	17.40

REMARKS

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

PRESSURE TIME



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PECOS PRODUCTION COMPANY
QUERECHO PLAINS UNIT # 2

○ FIRST SHUT-IN
* SECOND SHUT-IN



Well Test Report

RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM

PECOS PRODUCTION COMPANY QUERECHO PLAINS UNIT #2

Well identification

Well ID	QUERECHO #2	Well location	9 S. MALJAMAR
County/District	LEA	State, Country	TEXAS
Company	PECOS PROD. CO.	Division	MIDLAND

Fluid properties

Prod/Inj fluid	OIL/WATER	GOR	550:1
Water cut	40%	Condensate yield	UNKNOWN
API gravity	44.0	Gas spec. grav.	0.7
Viscosity	0.5439 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)	25.272 e-6/psi	Formation vol factor	1.1501 RB/STB

Reservoir properties

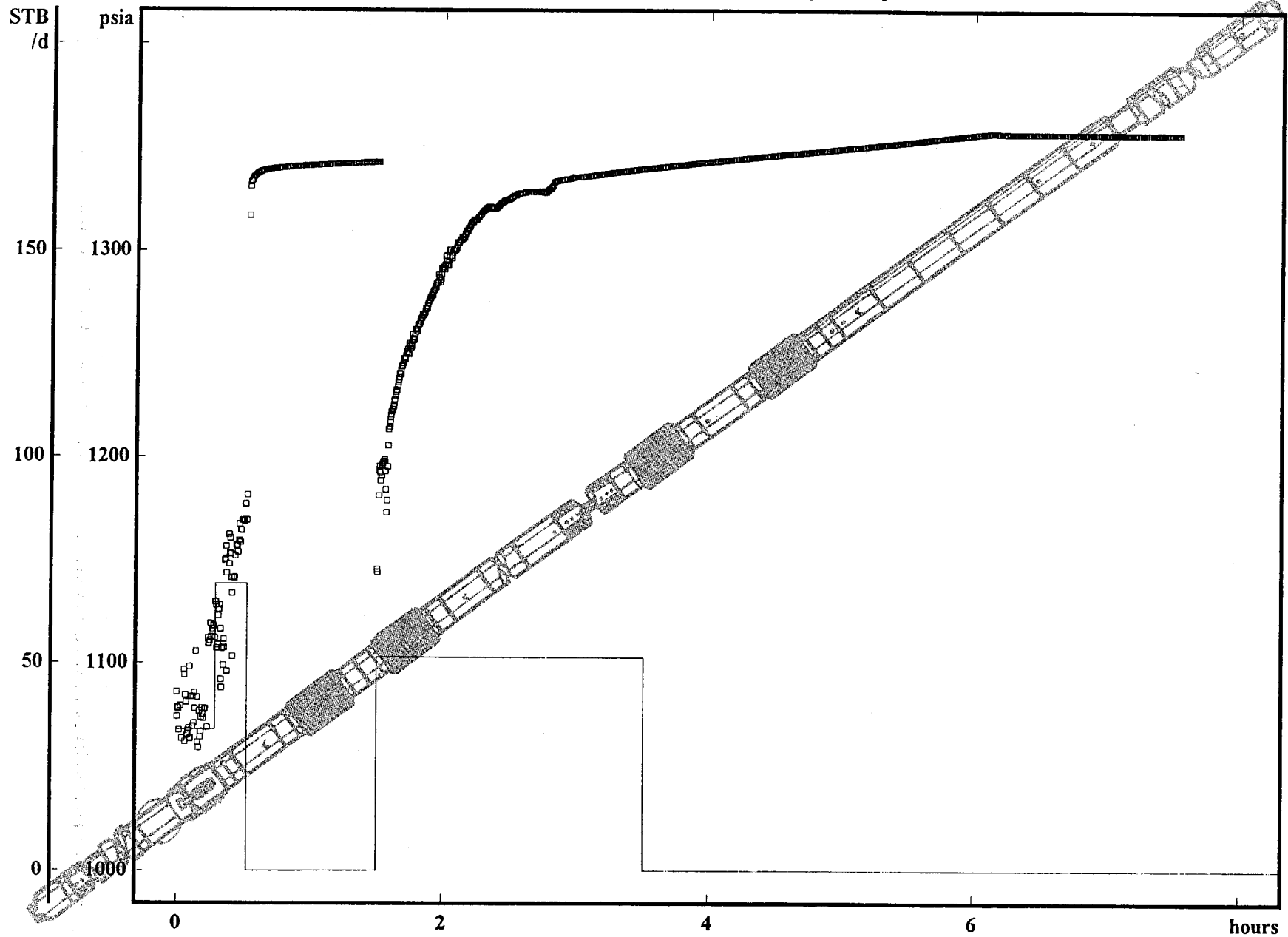
Porosity	0.12 frac	Formation thickness	40 ft
Wellbore radius	0.32813 ft	Prod-observer distance	N/A
Water-Oil Contact	UNKNOWN	Gas-Oil Contact	N/A
Gas-Water Contact	UNKNOWN	Rock compressibility	
Reservoir temperature	153 deg F	Pressure for properties	1357.5 psia

Comments

THE DERIVATIVES INDICATE A DEPLETED, HETEROGENEOUS RESERVOIR WITH GOOD PERMEABILITY & HIGH BUT IMPROVING SKIN. DUE TO THE NEAR EQUALIZATION OF THE FINAL FLOW & FINAL SHUT-IN PERIOD, THE FINAL WAS NEARLY COMPLETELY DOMINATED BY LINEAR FLOW EFFECT. THE RELIABILITY OF THE CALCULATIONS (PERMEABILITY & SKIN) FROM IT ARE AMBIGUOUS & MAY BE UNRELIABLE. THE INITIAL SHUT-IN HAD OBTAINED RADIAL FLOW IN MID TIME DATA WITH LATE TIME DATA SHOWING A 4:1 INCREASE OF SLOPE VALUE; THIS CONDITION USUALLY INDICATES BARRIERS/BOUNDARIES WITHIN RADIUS OF TEST. A REGRESSION MODEL ANALYSIS WAS PERFORMED TO BETTER DETERMINE FORMATION PARAMETERS & IS REPRESENTED BY A SOLID LINE PLOTTED OVER THE ACTUAL DATA WITH CONFIDENCE INTERVALS (MARGIN OF ERROR) SHOWN NEXT TO THE MAJOR CALCULATIONS. THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 40 FT. OF NET PAY REPORTED & AVERAGE (TIME WEIGHTED) PRODUCTION OF 54.7 BBL OF FLUID (60% OIL & 40% WATER; AS INDICATED IN SAMPLE CHAMBER RECOVERY) FOR THE FINAL FLOW PERIOD. THE RATES WERE BASED ON DENSITY OF FLUIDS RECOVERED VS. FLOWING PRESSURES. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO APPROX. 118 FT. DURING THE INITIAL SHUT-IN & 390 FT. FOR THE FINAL SHUT-IN.

PECOS PRODUCTION COMPANY QUERECHO PLAINS UNIT #2

Pressure and flow rate vs time during test sequence

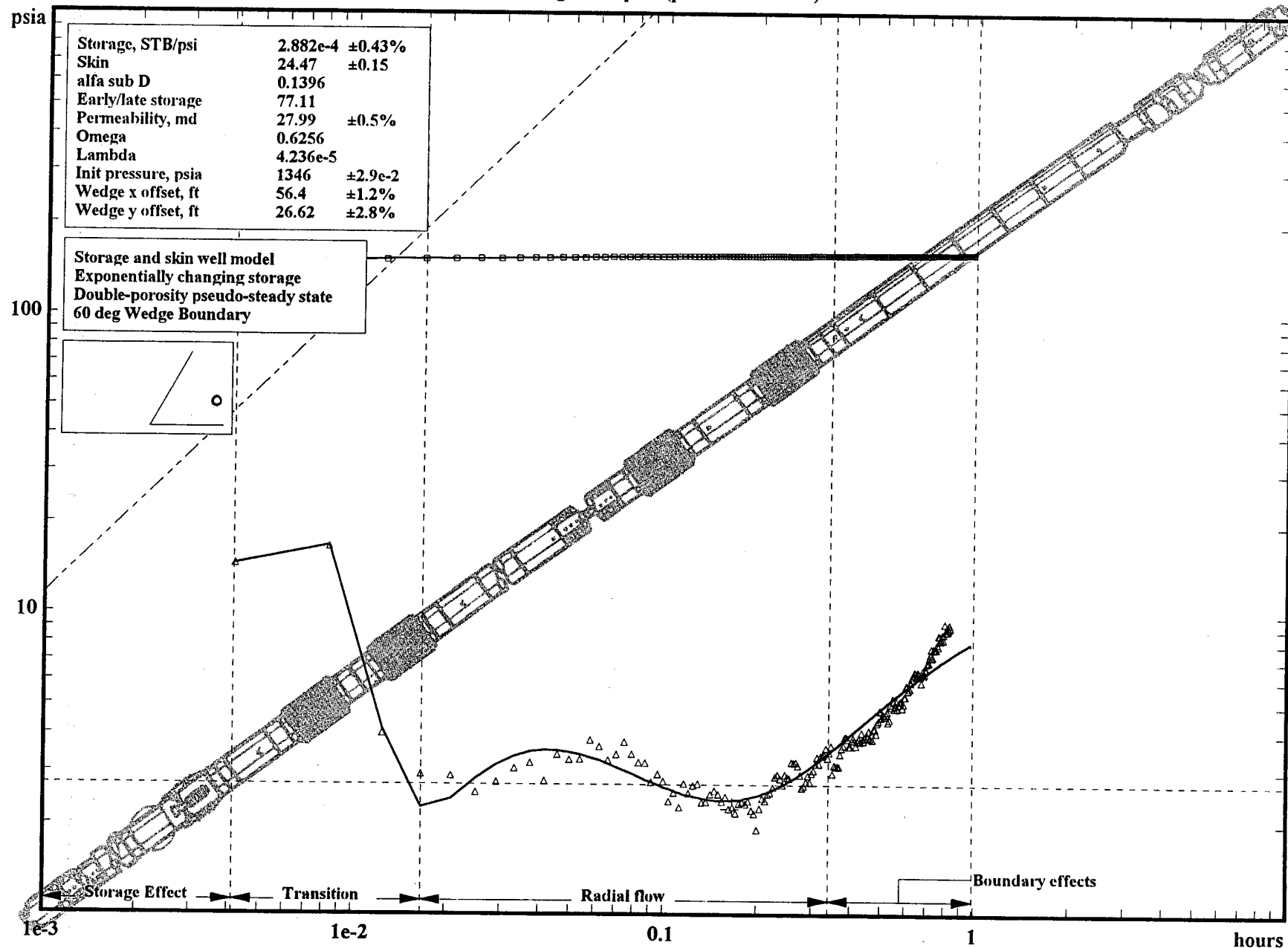


DST #1 STRAWN LIME 11,496 - 11,795 FT.



PECOS PRODUCTION COMPANY QUERECHO PLAINS UNIT #2

Diagnostic plot (pressure & time)

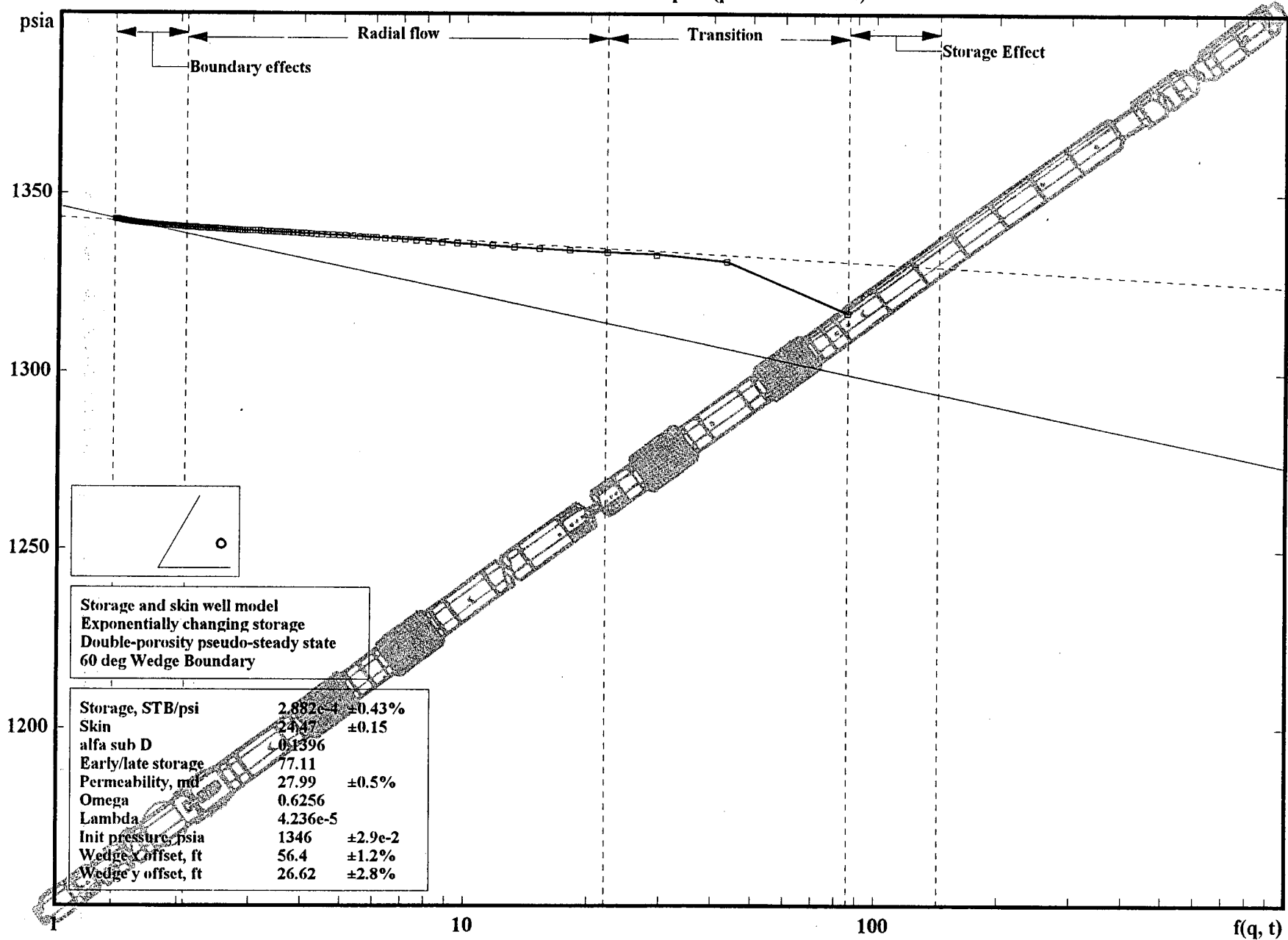


INITIAL SHUT-IN PERIOD DST #1 REGRESSION VERIFIED MODEL



PECOS PRODUCTION COMPANY QUERECHO PLAINS UNIT #2

Variable rate Horner plot (pressure & time)

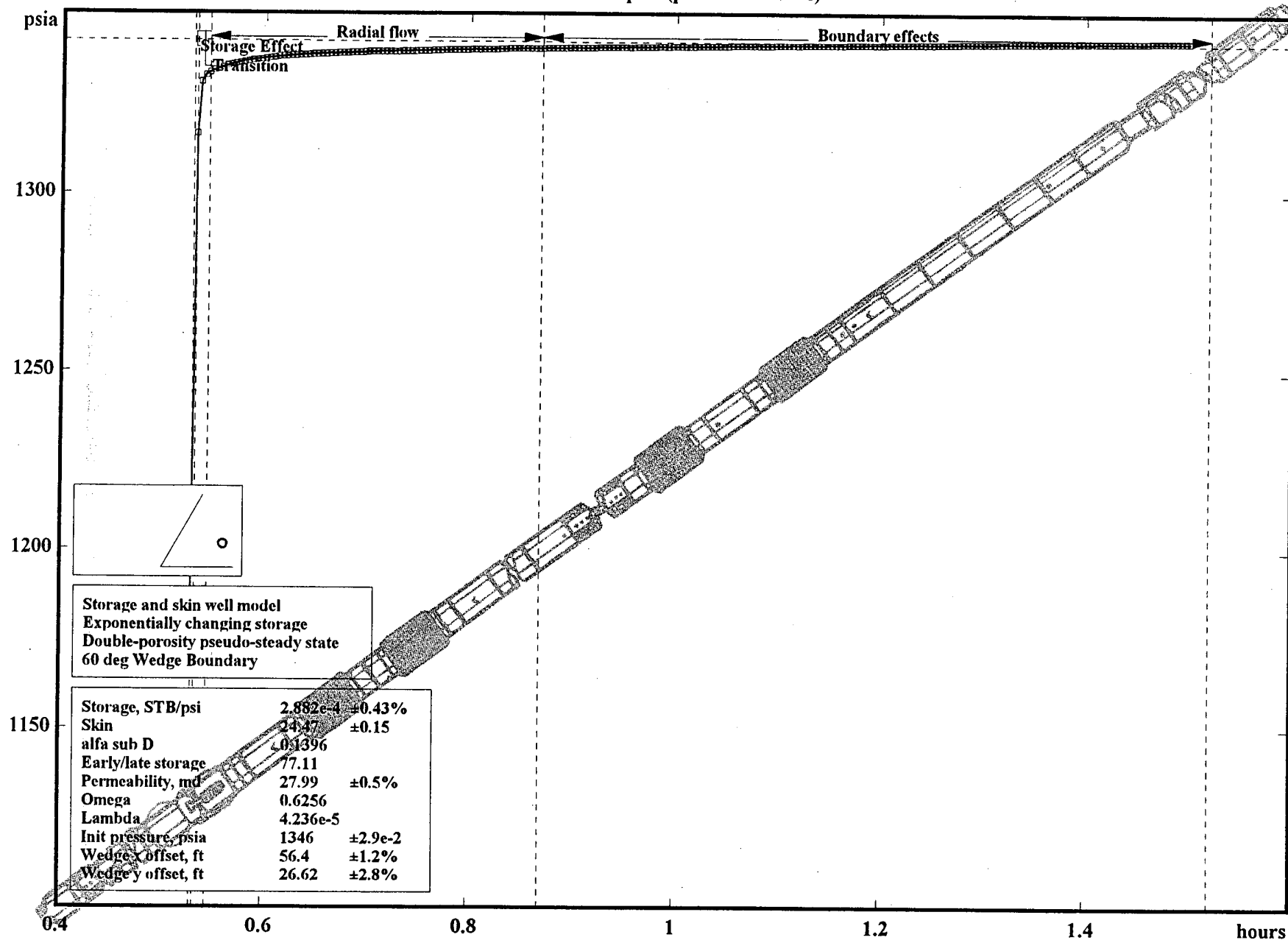


INITIAL SHUT-IN PERIOD DST #1 REGRESSION VERIFIED MODEL



PECOS PRODUCTION COMPANY QUERECHO PLAINS UNIT #2

Cartesian plot (pressure & time)

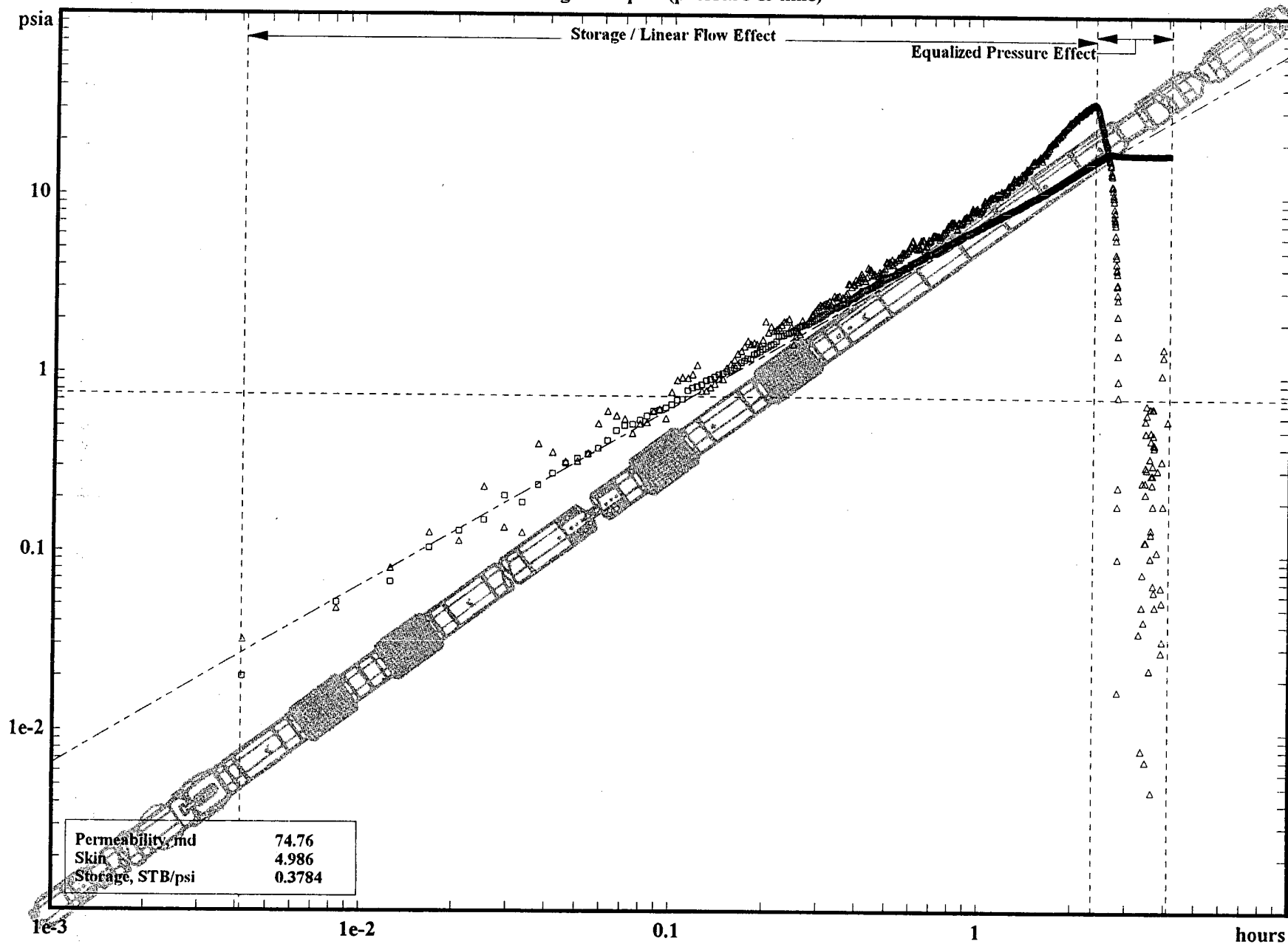


INITIAL SHUT-IN PERIOD DST #1 REGRESSION VERIFIED MODEL



PECOS PRODUCTION COMPANY QUERECHO PLAINS UNIT #2

Diagnostic plot (pressure & time)

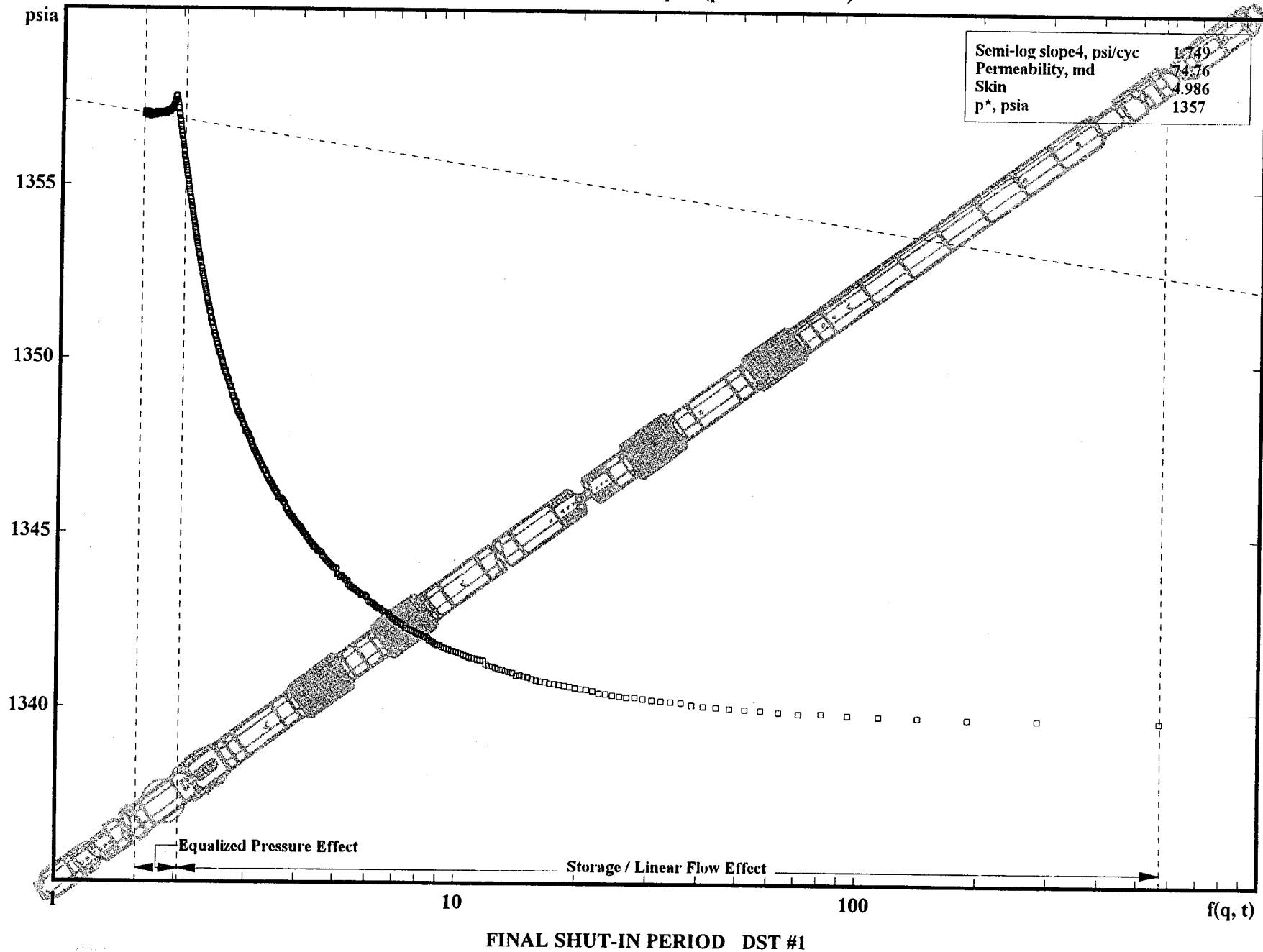


FINAL SHUT-IN PERIOD DST #1



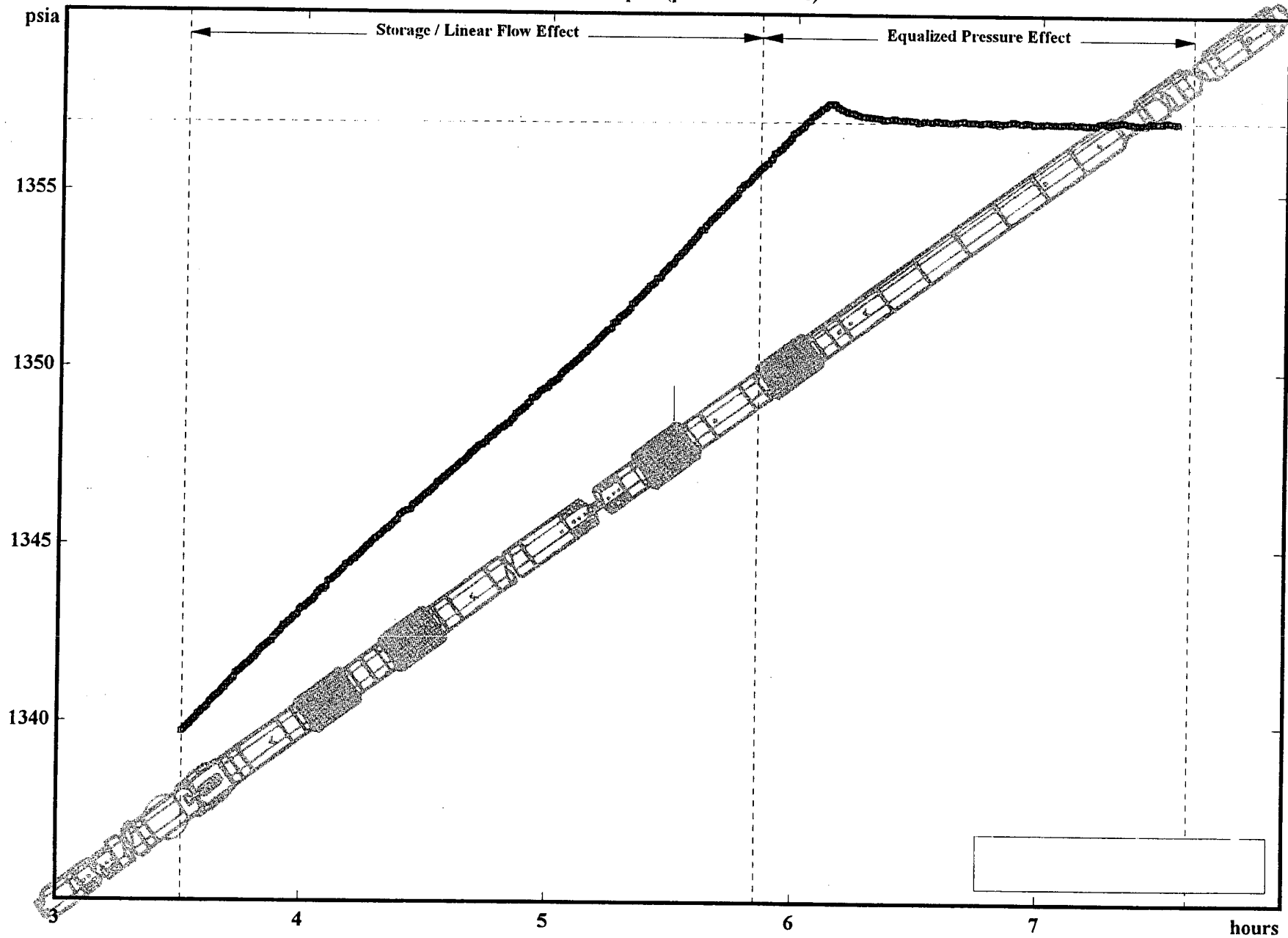
PECOS PRODUCTION COMPANY QUERECHO PLAINS UNIT #2

Variable rate Horner plot (pressure & time)



PECOS PRODUCTION COMPANY QUERECHO PLAINS UNIT #2

Cartesian plot (pressure & time)



FINAL SHUT-IN PERIOD DST #1

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