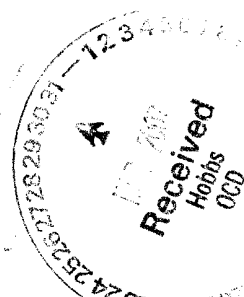




COMPANY : J. CLEO THOMPSON
LEASE : JUNCTION "18" FEDERAL
WELL NO. : # 1
FIELD : SAWYER (DEVONIAN)
COUNTY/STATE : LEA / NEW MEXICO

TEST DATE : 01/20/07
D.S.T. NO. : 1
TEST TKT. NO. : 23993
INVOICE NO. : 22068
ORDER NO. :



FORMATION : DEVONIAN
INTERVAL (ft) : 11634 TO 11644
TOTAL DEPTH (ft) : 11644
ELEVATION (ft) :

HOLE SIZE (in) : 8.750
DRILL PIPE ID (in) : 3.82
DRILL COLLAR ID(in) : 2.25
DRILL COLLAR feet : 806

ANCHOR LENGTH (ft): 10
TOOL LENGTH (ft) : 53
TOOL O.D. (in) : 5
PACKER SIZE (in) : 7.50

RECORDER DATA
AK-IKUSTER / STELLAR

TOP RECORDER: IN
RECORDER NO. : 20234
CAPACITY (psi): 10000
DEPTH (ft) : 11638
CLOCK NO. : 20234
DURATION (hrs): 99

BOTTOM RECORDER: OUT
RECORDER NO. : 13545
CAPACITY (psi): 8100
DEPTH (ft) : 11641
CLOCK NO. : 17908
DURATION (hrs): 24

MUD PROPERTIES

MUD TYPE : SALT / GEL
MUD WT. (#/gal) : 10.7

WATER LOSS (cc) : 5.00
FILTER CAKE (in) : 2/32
VISCOSITY (sec) : 75

CHLORIDE PPM : 195000
RESISTIVITY(ohm-m): .031

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 : 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 : 10:30 PM

TOTAL TEST TIME: 422

INITIAL FLOW : 62
SECOND FLOW : 0
THIRD FLOW :

INITIAL SHUT-IN: 360
SECOND SHUT-IN : 0
THIRD SHUT IN :

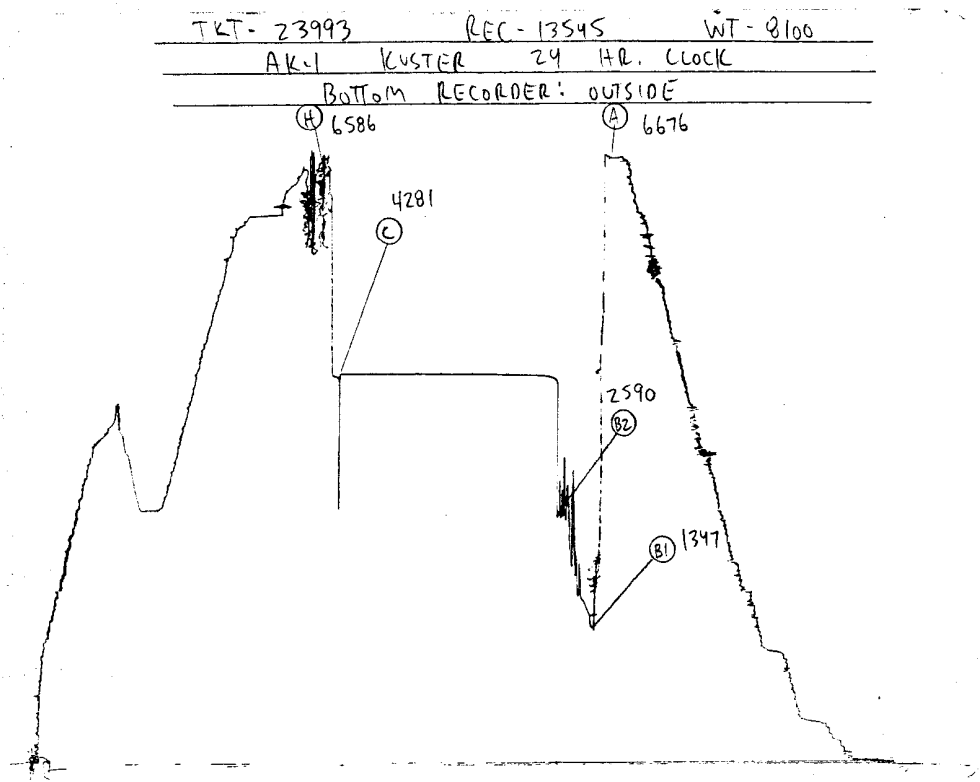
TEST TOOL OPERATOR: JIMMY PIPPINS



J. CLEO THOMPSON

JUNCTION "18" FEDERAL # 1
D.S.T. NO. :1

	CORRECTED READING	FIELD READING
A INITIAL HYDROSTATIC:	6674 PSI	6674 PSI
B-1 INITIAL FIRST FLOW :	1344 PSI	1344 PSI
B-2 FINAL FIRST FLOW :	2588 PSI	2588 PSI
C FIRST SHUT-IN :	4279 PSI	4279 PSI
D-1 INITIAL SECOND FLOW:	PSI	PSI
D-2 FINAL SECOND FLOW :	PSI	PSI
E SECOND SHUT-IN :	PSI	PSI
H FINAL HYDROSTATIC :	6584 PSI	6642 PSI



RECOVERY DATA

PIPE RECOVERY B.H. TEMP. (deg F) : 186
(RAN 2000 FT. OF WATER BLANKET- 1,200 MG/L CHL.)
900 FT. OF LIGHT GAS IN PIPE
PULLED TO FLUID @ 6053 FT. & REVERSED IN TEST TANK &
RESERVE PIT AN EST;
15 BBLS. FREE OIL (42.3 GRAV. @ 60 DEG.)-TEST TANK
22 BBLS. OF WATER BLANKET (1,200 MG/L CHL)- TO PIT
EST; 6-8 BBLS. OIL & SLIGHTLY GAS CUT MUD & WATER
BLANKET (60% OIL)-TO RESERVE PIT

SAMPLE CHAMBER

2500 LBS. OF PRESSURE
.50 CU. FT. OF GAS
1950 CC'S OF FREE OIL
42.3 GRAVITY @ 60 DEGREES

TEST REMARKS

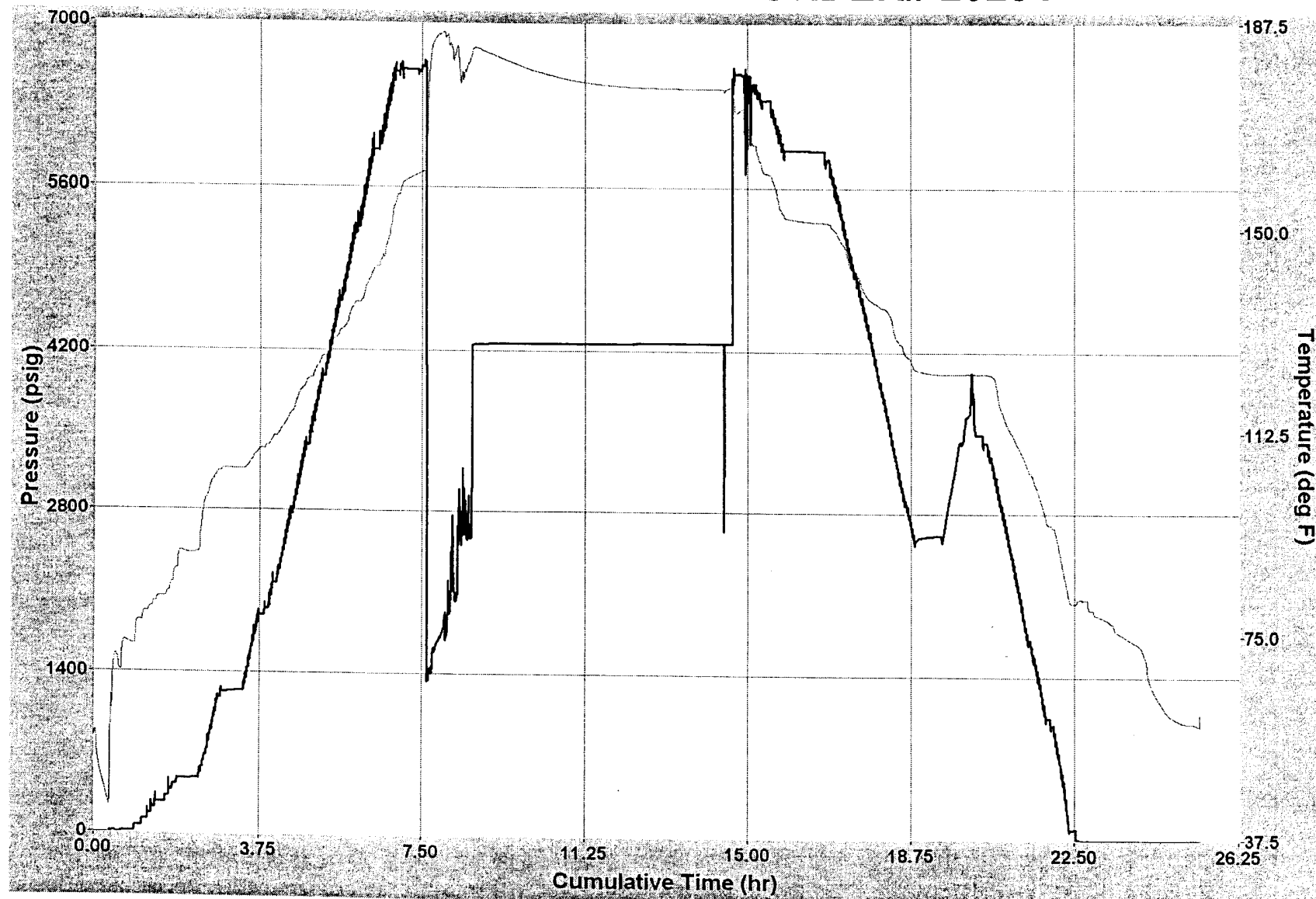
SLID 1-2 FT. TO BOTTOM & OPENED WITH WEAK BLOW WHICH BUILT TO FAIR BLOW
(5" IN WATER) IN 10 MIN., (2" IN WATER) IN 20 MIN., HAD A SURGING BLOW
BETWEEN (1" IN WATER) & (2" IN WATER) FOR 20 MIN., (3.25" IN WATER) IN 45
MIN. & THEN DECREASED TO (1" IN WATER) AT END OF THE 60 MIN. FLOW PERIOD.

(CHARTS INDICATE PLUGGING ACTION DURING FLOW PERIOD)

Company Name J. CLEO THOMPSON
Well Name JUNCTION "18" FEDERAL #1
Type of Test DST #1 (11634-11644 FT.; DEVONIAN)
Date(s) of Test 1-20-07



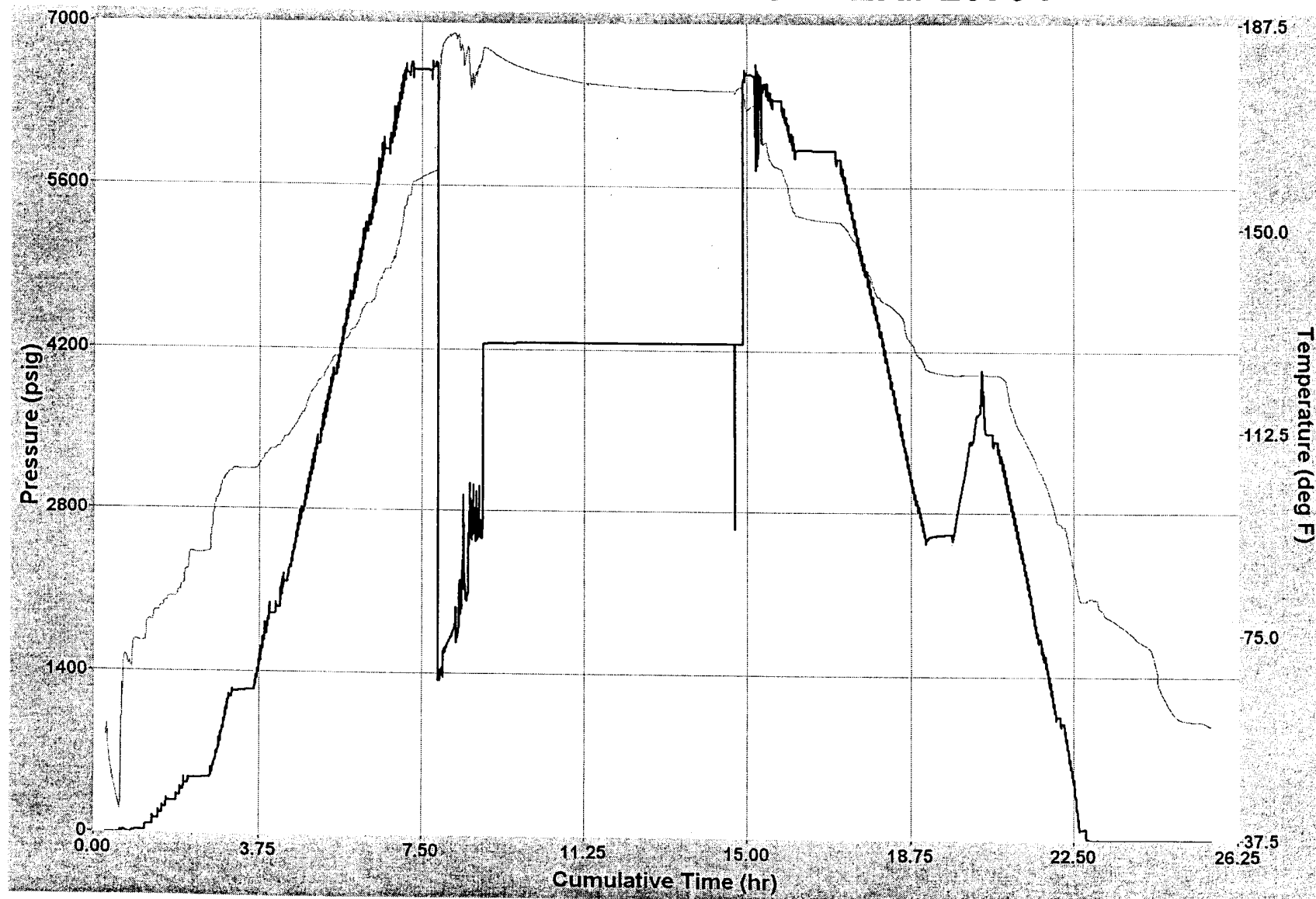
RIG TESTERS INC. RECORDER# 20234



Company Name J. CLEO THOMPSON
Well Name JUNCTION "18" FEDERAL #1
Type of Test DST #1 (11634-11644 FT.; DEVONIAN)
Date(s) of Test 1-20-07



RIG TESTERS INC. RECORDER# 20794



J. CLEO THOMPSON

JUNCTION "18" FEDERAL # 1
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 20234

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 11638 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			1344.80	.00
2.0	2.0			1367.94	23.14
4.0	4.0			1462.91	118.11
6.0	6.0			1438.30	93.50
8.0	8.0			1631.61	286.81
10.0	10.0			1623.71	278.91
12.0	12.0			1662.10	317.30
14.0	14.0			1686.29	341.49
16.0	16.0			1711.52	366.72
18.0	18.0			1736.40	391.60
20.0	20.0			1771.18	426.38
22.0	22.0			1803.87	459.07
24.0	24.0			1925.20	580.40
26.0	26.0			1720.81	376.01
28.0	28.0			1803.52	458.72
30.0	30.0			2120.60	775.80
32.0	32.0			2017.03	672.23
34.0	34.0			2200.71	855.91
36.0	36.0			2327.60	982.80
38.0	38.0			2043.81	699.01
40.0	40.0			2049.13	704.33
42.0	42.0			2194.00	849.20
44.0	44.0			2715.92	1371.12
46.0	46.0			2743.55	1398.75
48.0	48.0			2687.80	1343.00
50.0	50.0			2814.79	1469.99
52.0	52.0			2688.57	1343.77
54.0	54.0			2629.30	1284.50
56.0	56.0			2659.96	1315.16
58.0	58.0			2583.31	1238.51
60.0	60.0			2580.00	1235.20
61.5	61.5			2588.00	1243.20
FIRST SHUT-IN					
61.5	61.5	.00	.000	2588.00	.00
63.5	61.5	2.00	31.750	4264.23	1676.23
65.5	61.5	4.00	16.375	4265.91	1677.91
67.5	61.5	6.00	11.250	4267.30	1679.30
69.5	61.5	8.00	8.688	4268.01	1680.01

J. CLEO THOMPSON

JUNCTION "18" FEDERAL # 1
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 20234

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 11638 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			
71.5	61.5	10.00	7.150	4268.71	1680.71
73.5	61.5	12.00	6.125	4269.10	1681.10
75.5	61.5	14.00	5.393	4269.70	1681.70
77.5	61.5	16.00	4.844	4269.90	1681.90
79.5	61.5	18.00	4.417	4271.00	1683.00
81.5	61.5	20.00	4.075	4271.30	1683.30
84.5	61.5	23.00	3.674	4271.71	1683.71
87.5	61.5	26.00	3.365	4272.00	1684.00
90.5	61.5	29.00	3.121	4272.22	1684.22
93.5	61.5	32.00	2.922	4272.60	1684.60
96.5	61.5	35.00	2.757	4272.90	1684.90
99.5	61.5	38.00	2.618	4273.19	1685.19
106.5	61.5	45.00	2.367	4273.60	1685.60
111.5	61.5	50.00	2.230	4273.92	1685.92
116.5	61.5	55.00	2.118	4274.20	1686.20
121.5	61.5	60.00	2.025	4274.40	1686.40
131.5	61.5	70.00	1.879	4274.80	1686.80
141.5	61.5	80.00	1.769	4275.21	1687.21
151.5	61.5	90.00	1.683	4275.60	1687.60
161.5	61.5	100.00	1.615	4275.80	1687.80
171.5	61.5	110.00	1.559	4276.20	1688.20
181.5	61.5	120.00	1.513	4276.20	1688.20
191.5	61.5	130.00	1.473	4276.30	1688.30
201.5	61.5	140.00	1.439	4276.61	1688.61
211.5	61.5	150.00	1.410	4276.80	1688.80
221.5	61.5	160.00	1.384	4276.91	1688.91
231.5	61.5	170.00	1.362	4277.10	1689.10
241.5	61.5	180.00	1.342	4277.30	1689.30
251.5	61.5	190.00	1.324	4277.39	1689.39
261.5	61.5	200.00	1.308	4277.50	1689.50
271.5	61.5	210.00	1.293	4277.70	1689.70
281.5	61.5	220.00	1.280	4277.89	1689.89
291.5	61.5	230.00	1.267	4277.91	1689.91
301.5	61.5	240.00	1.256	4278.10	1690.10
311.5	61.5	250.00	1.246	4278.20	1690.20
321.5	61.5	260.00	1.237	4278.20	1690.20
331.5	61.5	270.00	1.228	4278.20	1690.20
341.5	61.5	280.00	1.220	4278.40	1690.40
351.5	61.5	290.00	1.212	4278.50	1690.50
361.5	61.5	300.00	1.205	4278.60	1690.60

J. CLEO THOMPSON



JUNCTION "18" FEDERAL # 1
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 20234

RECORDER CAPACITY : 10000 psi

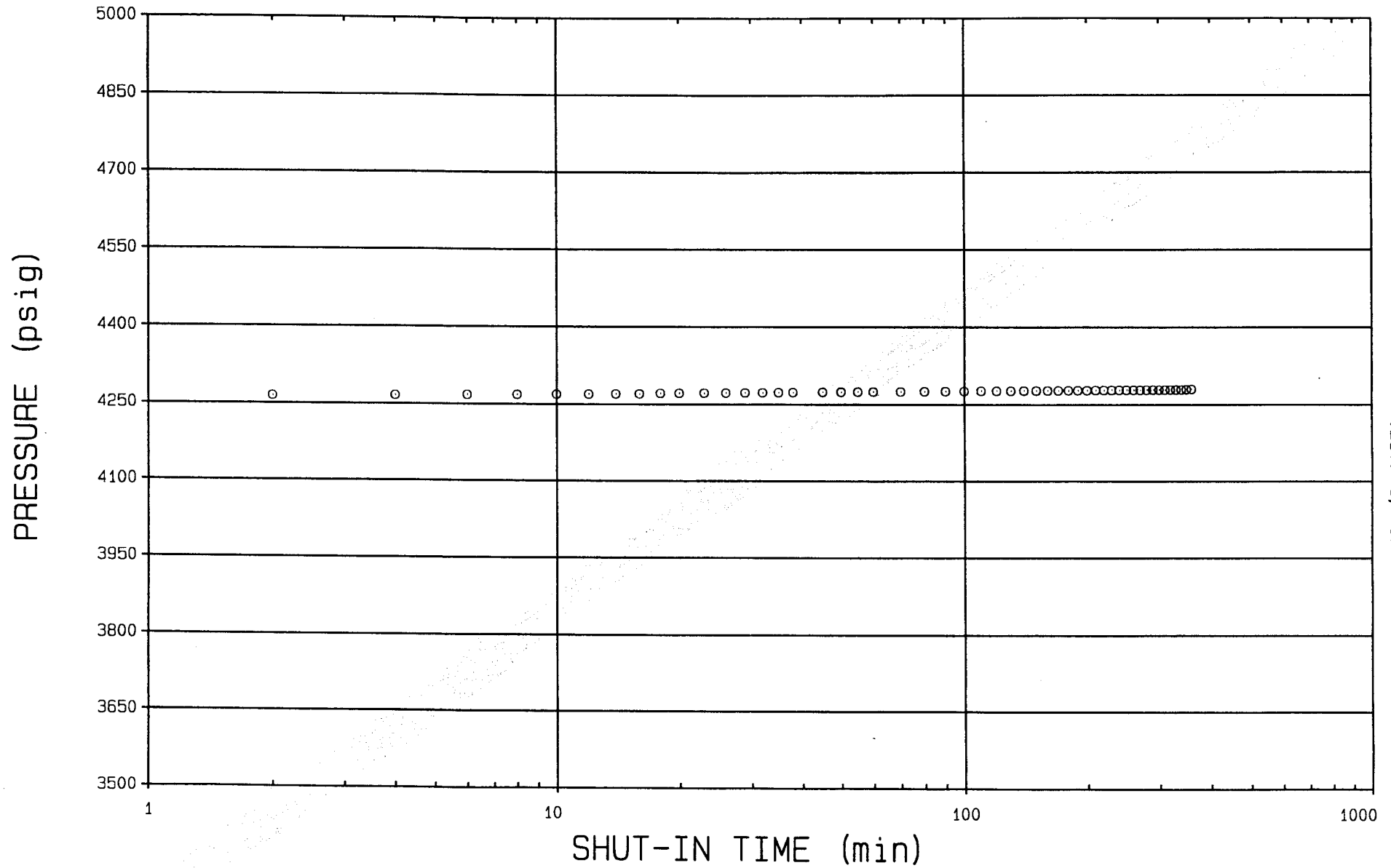
RECORDER DEPTH : 11638 ft

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		
371.5	61.5	310.00	1.198	4278.60	1690.60
381.5	61.5	320.00	1.192	4278.69	1690.69
391.5	61.5	330.00	1.186	4278.70	1690.70
401.5	61.5	340.00	1.181	4278.79	1690.79
411.5	61.5	350.00	1.176	4279.21	1691.21
421.5	61.5	360.00	1.171	4279.80	1691.80

REMARKS

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

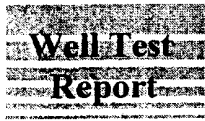
PRESSURE TIME



J. CLEO THOMPSON
 JUNCTION "18" FEDERAL # 1

○ FIRST SHUT-IN





RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM

J. CLEO THOMPSON JUNCTION "18" FEDERAL #1



Well identification

Well ID	JUNC."18" FED.#1	Well location	N.E. TATUM
County/District	LEA	State, Country	NEW MEXICO
Company	J. CLEO THOMPSON	Division	ODESSA

Fluid properties

Prod/Inj fluid	OIL	GOR	150:1
Water cut	0%	Condensate yield	UNKNOWN
API gravity	42.3	Gas spec. grav.	0.7
Viscosity	1.3751 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)	11.402 e-6/psi	Formation vol factor	1.1342 RB/STB

Reservoir properties

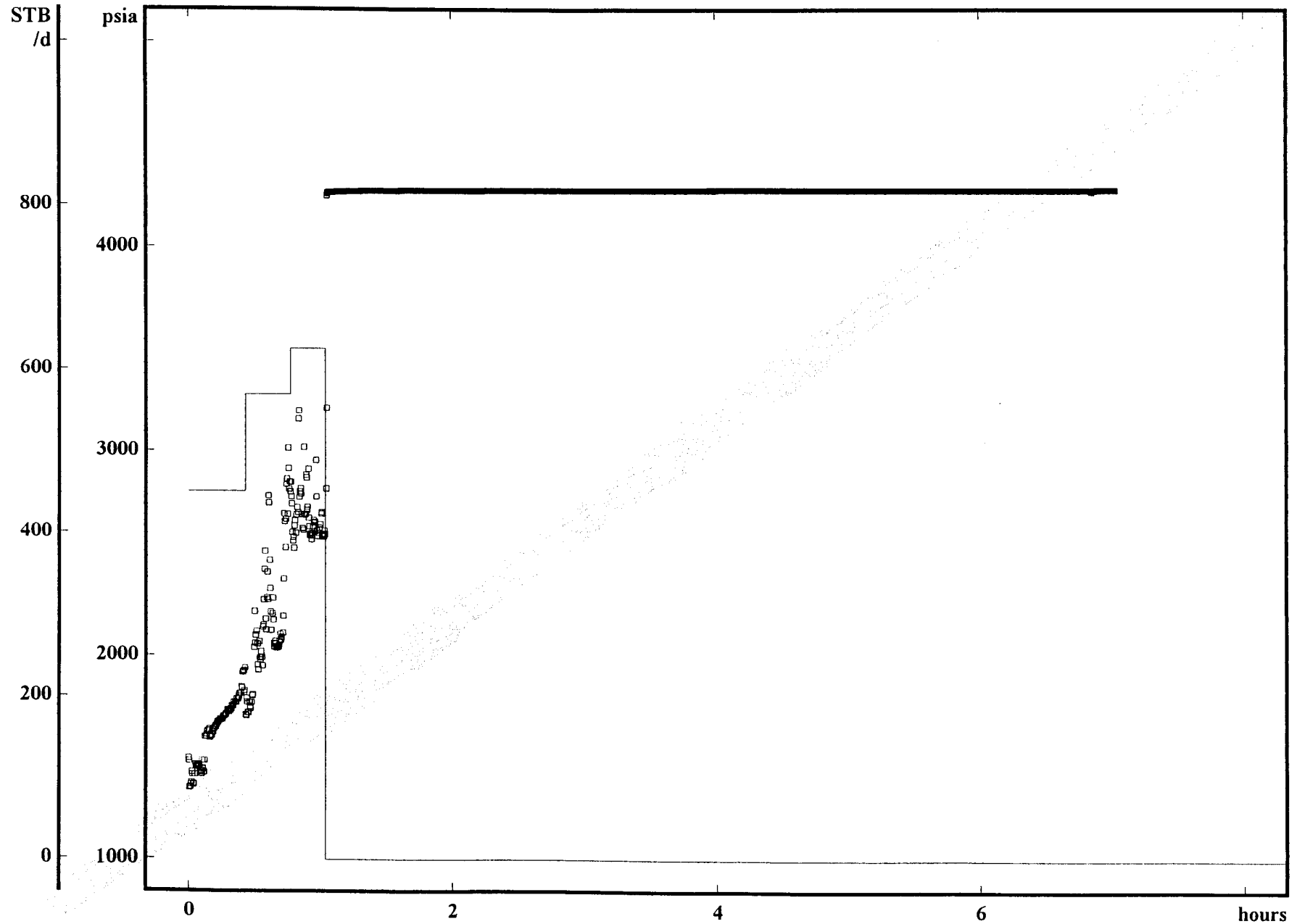
Porosity	0.12 frac	Formation thickness	10 ft
Wellbore radius	0.36458 ft	Prod-observer distance	N/A
Water-Oil Contact	UNKNOWN	Gas-Oil Contact	N/A
Gas-Water Contact	N/A	Rock compressibility	
Reservoir temperature	186 deg F	Pressure for properties	4280 psia

Comments

THE DERIVATIVE INDICATES A RESERVOIR WITH GOOD PERMEABILITY AND HIGH SKIN. THE MID TIME DATA HAS INDICATIONS OF A DUAL (VUGULAR/FRACTURED) POROSITY RESPONSE WITH THE LATE TIME INCREASE BEING INDICATIVE OF A BARRIER OR BOUNDARY EFFECTS DETECTED WITH-IN RADIUS OF INVESTIGATION. A REGRESSION VERIFIED MODEL ANALYSIS WAS PERFORMED TO BETTER DETERMINE FORMATION PARAMETERS AND IS REPRESENTED BY A SOLID LINE PLOTTED OVER ACTUAL DATA WITH CONFIDENCE INTERVALS (MARGIN OF ERROR) SHOWN NEXT TO MAJOR PARAMETERS. THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 10 FT. OF NET PAY AND AN AVERAGE PRODUCTION RATE OF 548 BBLS. OF OIL FOR THE FLOW PERIOD. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO APPROX. 1893 FT. FROM WELLBORE.

J. CLEO THOMPSON JUNCTION "18" FEDERAL #1

Pressure and flow rate vs time during test sequence

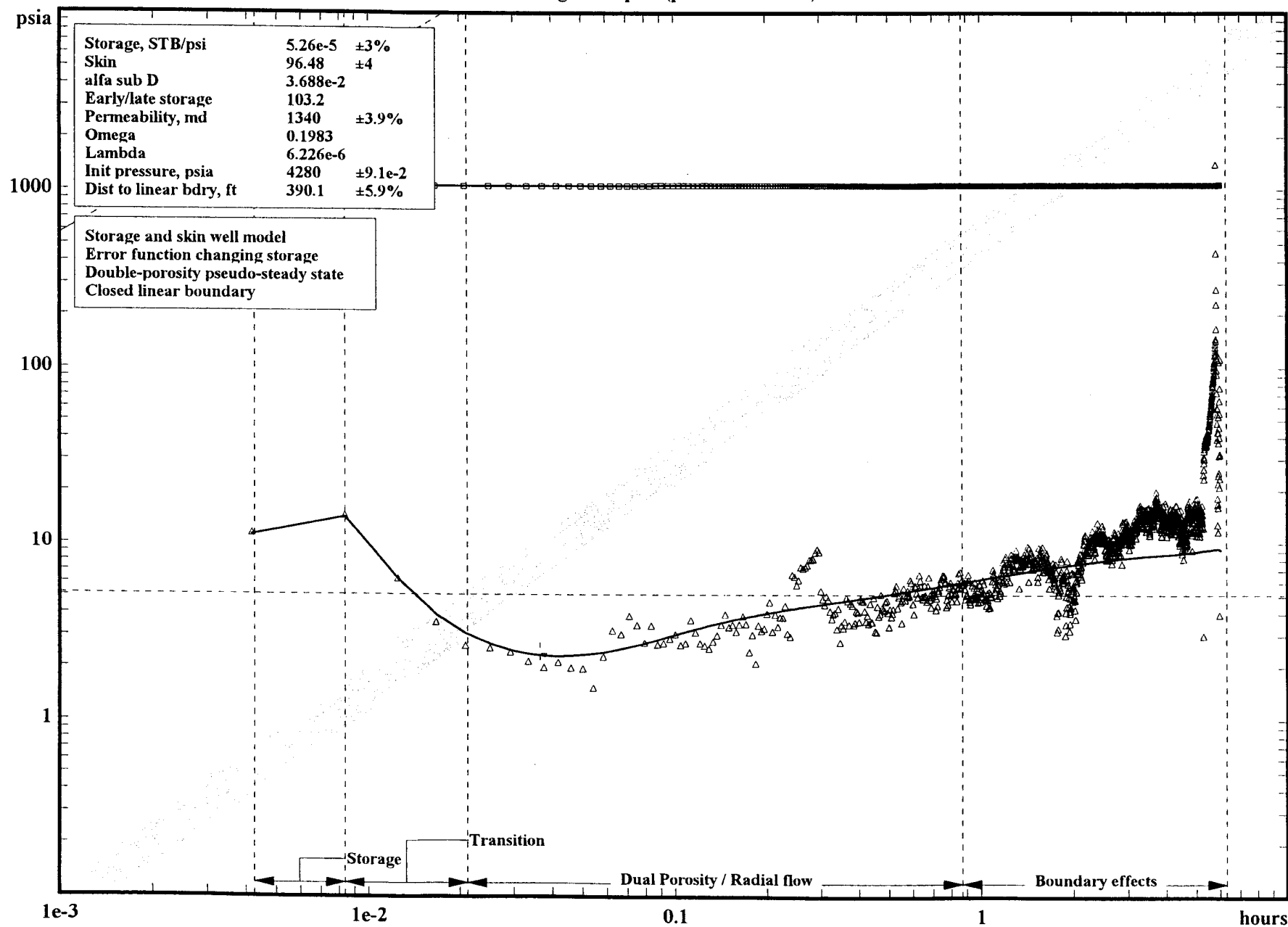


DST #1 11634 - 11644 FT.; DEVONIAN



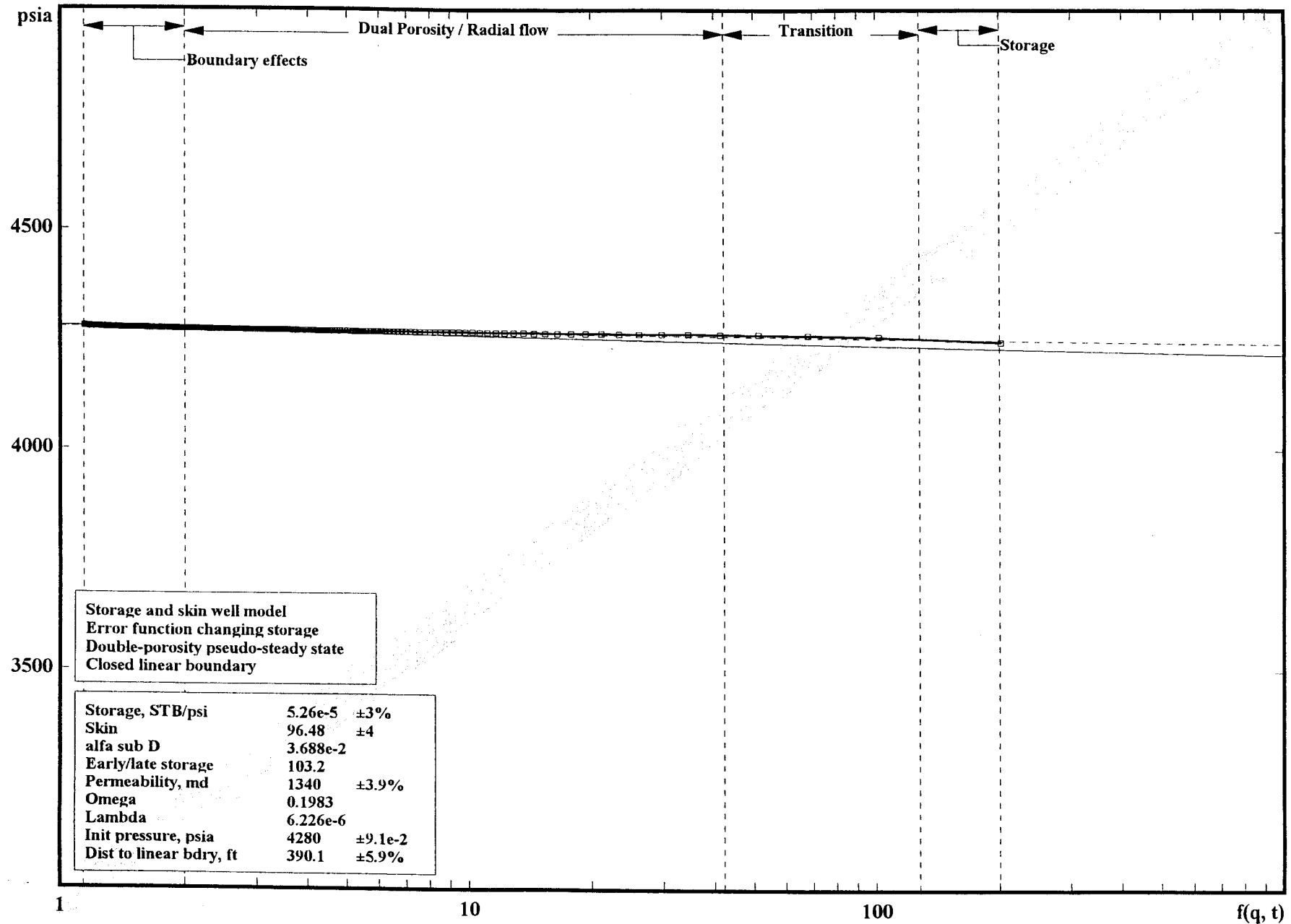
J. CLEO THOMPSON JUNCTION "18" FEDERAL #1

Diagnostic plot (pressure & time)



J. CLEO THOMPSON JUNCTION "18" FEDERAL #1

Variable rate Horner plot (pressure & time)



RIG
TESTERS, INC.

J. CLEO THOMPSON JUNCTION "18" FEDERAL #1

Cartesian plot (pressure & time)

