



COMPANY : D.J. SIMMONS, INC.  
LEASE : PINTO  
WELL NO. : # 1-7  
FIELD : PAPOOSE CANYON  
COUNTY/STATE : DOLORES / COLORADO

TEST DATE : 11/13/13  
D.S.T. NO. : 1  
TEST TKT. NO. : 26111  
INVOICE NO. : 24834  
ORDER NO. :

FORMATION	: LOWER LASAL LIME	HOLE SIZE (in)	: 7.875	ANCHOR LENGTH (ft):	63
INTERVAL (ft)	: 5627 TO 5690	DRILL PIPE ID (in)	: 3.82	TOOL LENGTH (ft)	: 72
TOTAL DEPTH (ft):	5690	DRILL COLLAR ID(in):	2.25	TOOL O.D. (in)	: 5
ELEVATION (ft)	:	DRILL COLLAR feet	: 663	PACKER SIZE (in)	: 7.00

RECORDER DATA  
AK-1KUSTER / STELLAR

TOP RECORDER: IN  
RECORDER NO. : 9635  
CAPACITY (psi): 10000  
DEPTH (ft) : 5635  
CLOCK NO. : 9635  
DURATION (hrs): 99

BOTTOM RECORDER: OUT  
RECORDER NO. : 16550  
CAPACITY (psi): 7350  
DEPTH (ft) : 5690  
CLOCK NO. : 30397  
DURATION (hrs): 24

MUD PROPERTIES

MUD TYPE : FRESH GEL/CHEM  
MUD WT. (#/gal) : 9.10

WATER LOSS (cc) : 10.4  
FILTER CAKE (in) : 1/32  
VISCOSITY (sec) : 43

CHLORIDE PPM : 1485  
RESISTIVITY(ohm-m): 2.00

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 : NO  
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 : 9:30 AM

TOTAL TEST TIME: 348

INITIAL FLOW : 18  
SECOND FLOW : 58  
THIRD FLOW :

INITIAL SHUT-IN: 90  
SECOND SHUT-IN : 181  
THIRD SHUT IN :

TEST TOOL OPERATOR: PAUL MYERS

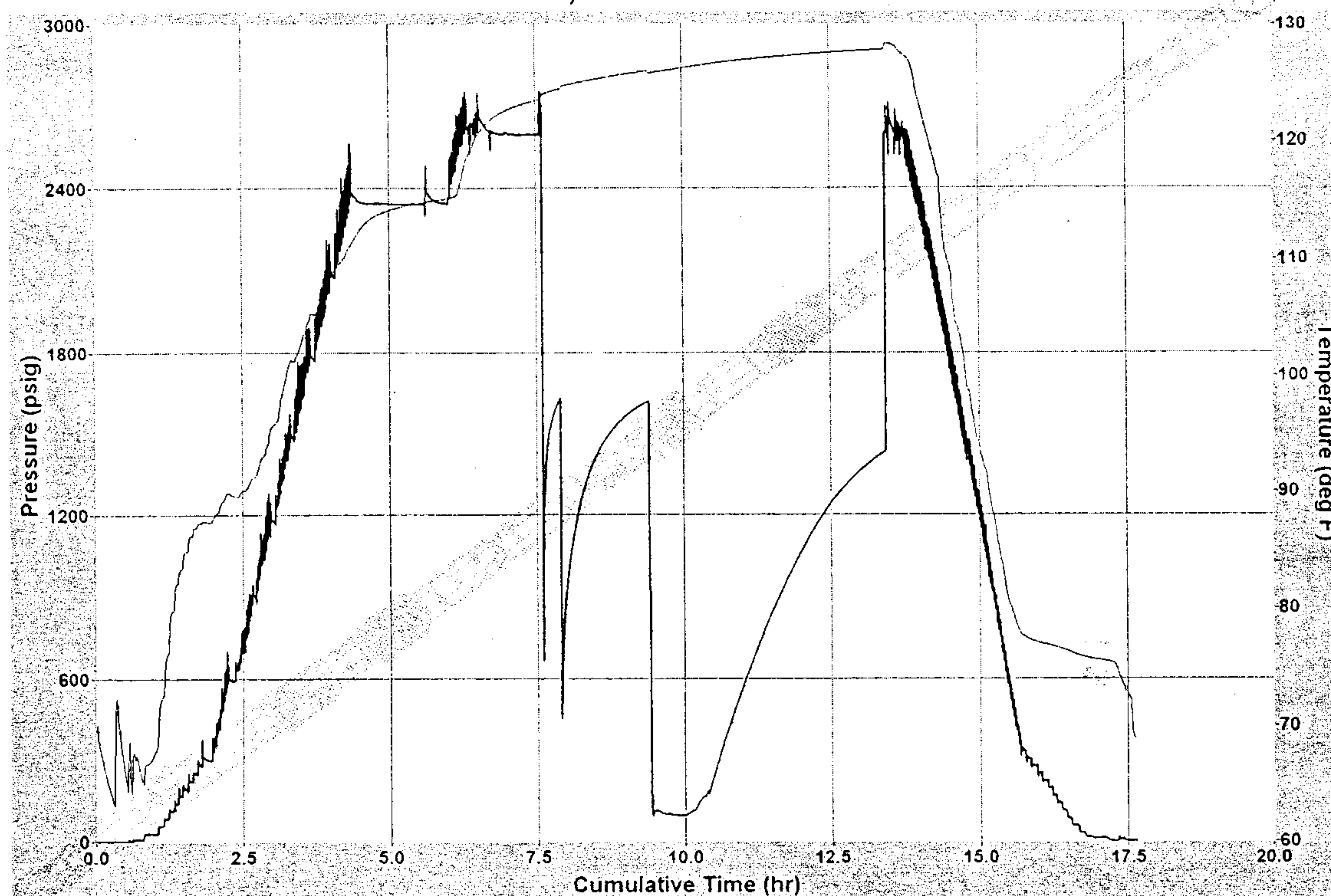


D.J. SIMMONS, INC.

PINTO # 1-7  
D.S.T. NO. :1

		CORRECTED READING	FIELD READING
A	INITIAL HYDROSTATIC:	2613 PSI	2763 PSI
B-1	INITIAL FIRST FLOW :	682 PSI	682 PSI
B-2	FINAL FIRST FLOW :	470 PSI	1644 PSI
C	FIRST SHUT-IN :	1634 PSI	1550 PSI
D-1	INITIAL SECOND FLOW:	107 PSI	107 PSI
D-2	FINAL SECOND FLOW :	193 PSI	203 PSI
E	SECOND SHUT-IN :	1449 PSI	1449 PSI
H	FINAL HYDROSTATIC :	2611 PSI	2615 PSI

### RIG TESTERS, INC. RECORDER# 9635



PIPE RECOVERY

RECOVERY DATA  
B.H. TEMP. (deg F) : 128

SAMPLE CHAMBER

130 FT. OF WEAK GAS IN COLLARS  
90 FT. OF SLIGHTLY GAS CUT DRLG. MUD

200 LBS. OF PRESSURE  
.10 CU. FT. OF GAS  
2000 CC'S SLIGHTLY GAS CUT MUD

### TEST REMARKS

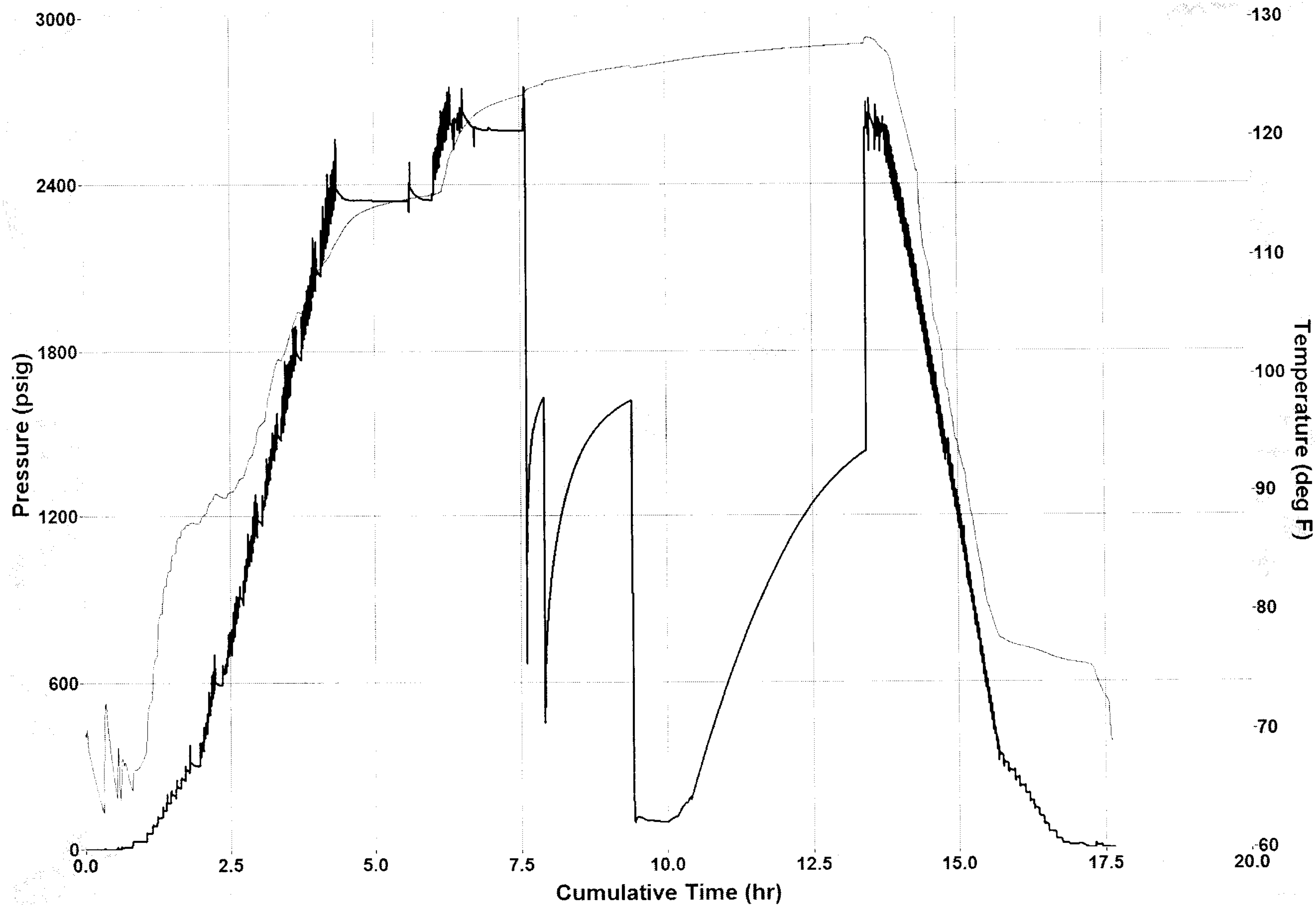
TOOL OPENED WITH VERY WEAK BLOW (TOP OF WATER) WHICH DECREASED & DIED IN 5 MIN. OF THE 15 MIN. FIRST FLOW. REOPENED TOOL WITH FAIR BLOW WHICH BUILT TO GOOD BLOW (BOTTOM OF BUCKET) IN 1 MIN., 8 OZS. ON 1/8" CHOKE IN 15 MIN. 8 OZS. IN 30 MIN., 8 OZS. IN 45 MIN. & 7 OZS. ON 1/8" AT END OF 60 MIN. FINAL FLOW PERIOD.

(CHARTS INDICATE SEVERE PLUGGING ACTION DURING FIRST FLOW PERIOD)



Company Name D.J. SIMMONS, INC.  
Well Name PINTO #1-7  
Type of Test DST #1 (5627-5690 FT.; LOWER LASAL LIME)  
Date(s) of Test 11-13-13

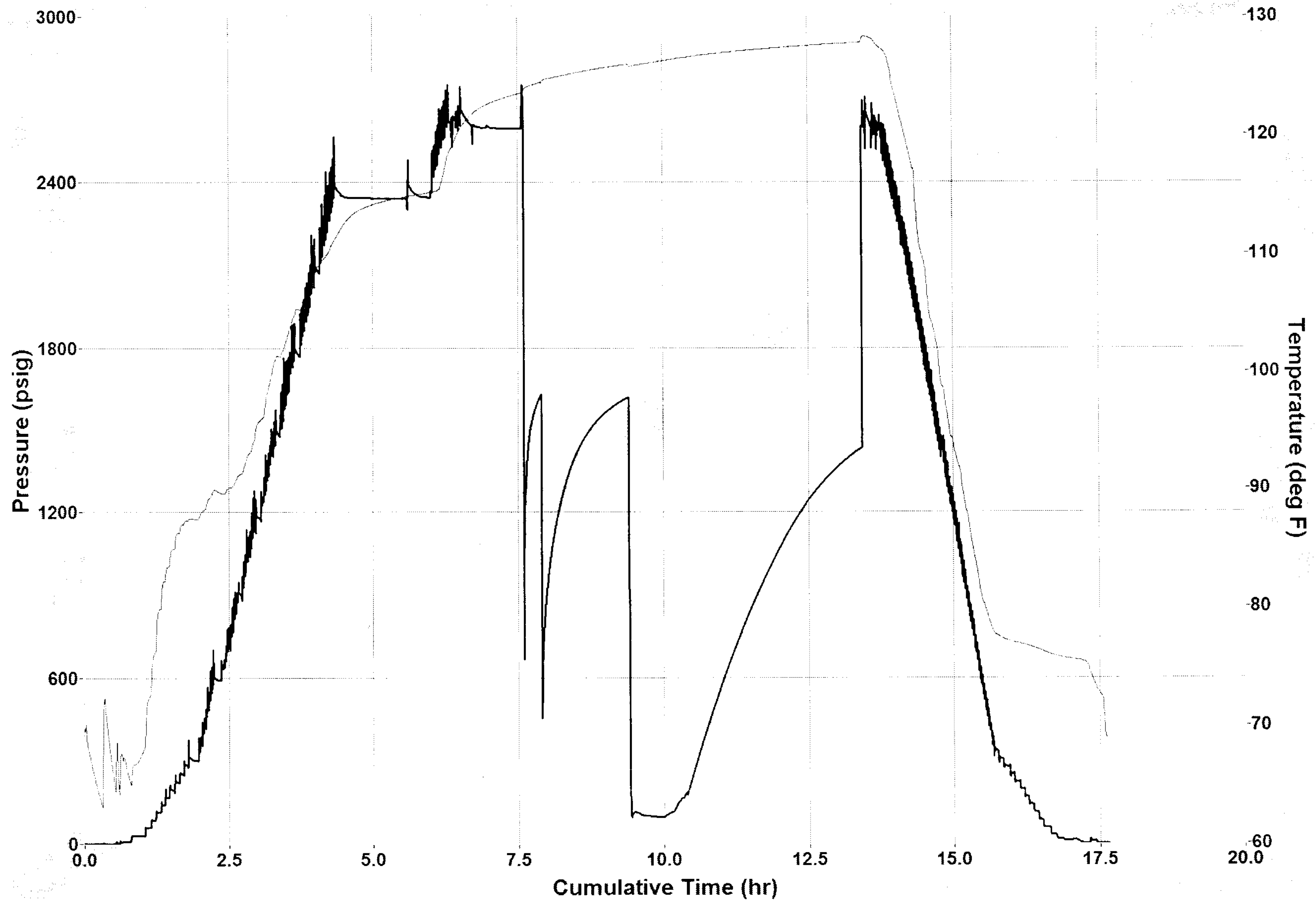
## RIG TESTERS, INC. RECORDER# 9635





Company Name D.J. SIMMONS, INC.  
Well Name PINTO #1-7  
Type of Test DST #1 (5627-5690 FT.; LOWER LASAL LIME)  
Date(s) of Test 11-13-13

## RIG TESTERS, INC. RECORDER# 9634





## INCREMENTAL PRESSURE DATA

RECORDER NO : 9635

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 5635 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			682.60	.00
2.0	2.0			1318.05	635.45
4.0	4.0			1424.99	742.39
6.0	6.0			1498.60	816.00
8.0	8.0			1535.17	852.57
10.0	10.0			1570.25	887.65
12.0	12.0			1594.70	912.10
14.0	14.0			1614.99	932.39
16.0	16.0			1631.95	949.35
18.0	18.0			1646.00	963.40
18.5	18.5			470.50	-212.10
FIRST SHUT-IN					
18.5	18.5	.00	.000	470.50	.00
19.5	18.5	1.00	19.480	694.38	223.88
20.5	18.5	2.00	10.240	771.71	301.21
21.5	18.5	3.00	7.160	830.10	359.60
22.5	18.5	4.00	5.620	875.49	404.99
23.5	18.5	5.00	4.696	915.23	444.73
24.5	18.5	6.00	4.080	951.18	480.68
25.5	18.5	7.00	3.640	984.75	514.25
26.5	18.5	8.00	3.310	1013.80	543.30
27.5	18.5	9.00	3.053	1040.73	570.23
28.5	18.5	10.00	2.848	1067.58	597.08
30.5	18.5	12.00	2.540	1113.15	642.65
32.5	18.5	14.00	2.320	1155.17	684.67
34.5	18.5	16.00	2.155	1192.83	722.33
36.5	18.5	18.00	2.027	1226.00	755.50
38.5	18.5	20.00	1.924	1257.35	786.85
41.5	18.5	23.00	1.803	1298.57	828.07
44.5	18.5	26.00	1.711	1334.83	864.33
47.5	18.5	29.00	1.637	1366.78	896.28
50.5	18.5	32.00	1.578	1395.12	924.62
53.5	18.5	35.00	1.528	1420.57	950.07
56.5	18.5	38.00	1.486	1443.30	972.80
59.5	18.5	41.00	1.451	1465.33	994.83
62.5	18.5	44.00	1.420	1483.47	1012.97
65.5	18.5	47.00	1.393	1500.18	1029.68
68.5	18.5	50.00	1.370	1515.40	1044.90
71.5	18.5	53.00	1.349	1529.32	1058.82
74.5	18.5	56.00	1.330	1542.03	1071.53
77.5	18.5	59.00	1.313	1554.35	1083.85
80.5	18.5	62.00	1.298	1565.07	1094.57
83.5	18.5	65.00	1.284	1574.88	1104.38
86.5	18.5	68.00	1.272	1584.17	1113.67

## INCREMENTAL PRESSURE DATA

RECORDER NO : 9635

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 5635 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					
89.5	18.5	71.00	1.260	1592.78	1122.28
92.5	18.5	74.00	1.250	1600.78	1130.28
95.5	18.5	77.00	1.240	1608.10	1137.60
98.5	18.5	80.00	1.231	1615.02	1144.52
101.5	18.5	83.00	1.223	1621.62	1151.12
104.5	18.5	86.00	1.215	1627.53	1157.03
107.5	18.5	89.00	1.208	1633.23	1162.73
108.3	18.5	89.82	1.206	1634.80	1164.30
SECOND FLOW					
110.5	20.7			107.30	.00
113.5	23.7			129.60	22.30
116.5	26.7			127.80	20.50
119.5	29.7			122.30	15.00
122.5	32.7			117.70	10.40
125.5	35.7			116.60	9.30
128.5	38.7			115.80	8.50
131.5	41.7			113.80	6.50
134.5	44.7			112.90	5.60
137.5	47.7			112.30	5.00
140.5	50.7			111.50	4.20
143.5	53.7			110.10	2.80
146.5	56.7			117.20	9.90
149.5	59.7			124.10	16.80
152.5	62.7			129.00	21.70
155.5	65.7			140.90	33.60
158.5	68.7			162.00	54.70
161.5	71.7			176.10	68.80
164.5	74.7			179.60	72.30
167.5	77.7			200.70	93.40
168.5	78.7			193.30	86.00
SECOND SHUT-IN					
168.5	78.7	.00	.000	193.30	.00
169.5	78.7	1.00	79.720	207.05	13.75
170.5	78.7	2.00	40.360	220.06	26.76
171.5	78.7	3.00	27.240	232.30	39.00
172.5	78.7	4.00	20.680	245.20	51.90
173.5	78.7	5.00	16.744	257.25	63.95
174.5	78.7	6.00	14.120	269.00	75.70

D.J. SIMMONS, INC.



PINTO # 1-7  
D.S.T. NO. : 1

# INCREMENTAL PRESSURE DATA

RECORDER NO : 9635

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 5635 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					
175.5	78.7	7.00	12.246	281.39	88.09
176.5	78.7	8.00	10.840	293.04	99.74
177.5	78.7	9.00	9.747	304.50	111.20
178.5	78.7	10.00	8.872	316.49	123.19
180.5	78.7	12.00	7.560	339.00	145.70
182.5	78.7	14.00	6.623	361.63	168.33
184.5	78.7	16.00	5.920	384.07	190.77
186.5	78.7	18.00	5.373	405.70	212.40
188.5	78.7	20.00	4.936	427.73	234.43
191.5	78.7	23.00	4.423	460.02	266.72
194.5	78.7	26.00	4.028	491.72	298.42
197.5	78.7	29.00	3.714	522.82	329.52
203.5	78.7	35.00	3.249	583.31	390.01
208.5	78.7	40.00	2.968	632.21	438.91
213.5	78.7	45.00	2.749	679.40	486.10
218.5	78.7	50.00	2.574	725.88	532.58
223.5	78.7	55.00	2.431	770.99	577.69
228.5	78.7	60.00	2.312	814.20	620.90
233.5	78.7	65.00	2.211	856.17	662.87
238.5	78.7	70.00	2.125	896.58	703.28
243.5	78.7	75.00	2.050	934.60	741.30
248.5	78.7	80.00	1.984	972.26	778.96
253.5	78.7	85.00	1.926	1008.84	815.54
258.5	78.7	90.00	1.875	1044.30	851.00
263.5	78.7	95.00	1.829	1078.84	885.54
268.5	78.7	100.00	1.787	1112.11	918.81
273.5	78.7	105.00	1.750	1143.40	950.10
278.5	78.7	110.00	1.716	1173.62	980.32
283.5	78.7	115.00	1.685	1202.09	1008.79
288.5	78.7	120.00	1.656	1228.70	1035.40
293.5	78.7	125.00	1.630	1254.20	1060.90
298.5	78.7	130.00	1.606	1278.03	1084.73
303.5	78.7	135.00	1.583	1300.00	1106.70
308.5	78.7	140.00	1.562	1320.99	1127.69
313.5	78.7	145.00	1.543	1340.72	1147.42
318.5	78.7	150.00	1.525	1358.90	1165.60
323.5	78.7	155.00	1.508	1376.07	1182.77
328.5	78.7	160.00	1.492	1392.11	1198.81
333.5	78.7	165.00	1.477	1407.00	1213.70
338.5	78.7	170.00	1.463	1421.16	1227.86



**RIG**  
TESTERS, INC.

## INCREMENTAL PRESSURE DATA

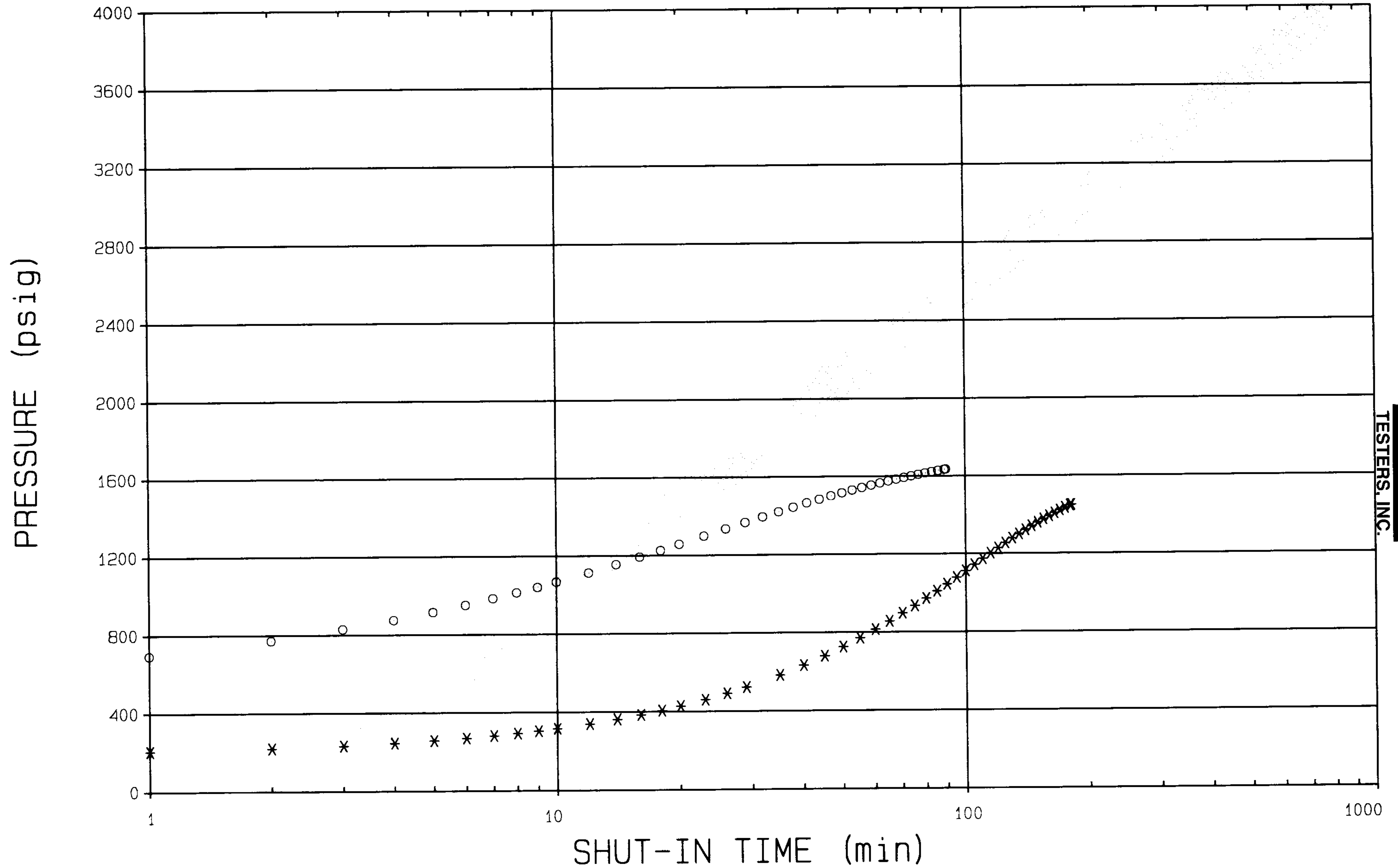
RECORDED DEPTH : 5635 ft

REMARKS

THE INCREMENTAL DATA, PLOTS & ANALYSIS ARE FROM ELECTRONIC RECORDER DATA  
PLEASE REFER TO DERIVATIVE DIAGNOSTICS ANALYSIS FOR FURTHER INFORMATION  
(DST PRESSURE ASCII FILES CAN BE FORWARDED BY E-MAIL UPON REQUEST)



# PRESSURE TIME


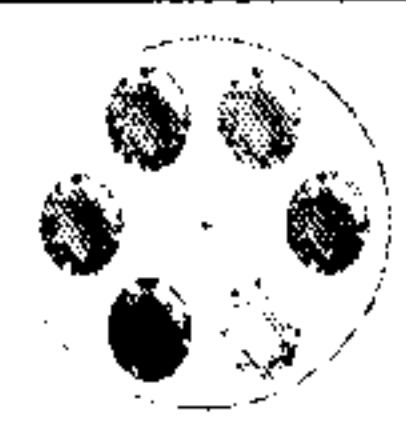


TESTERS, INC.  
**RIG**

D.J. SIMMONS, INC.

PINTO # 1-7


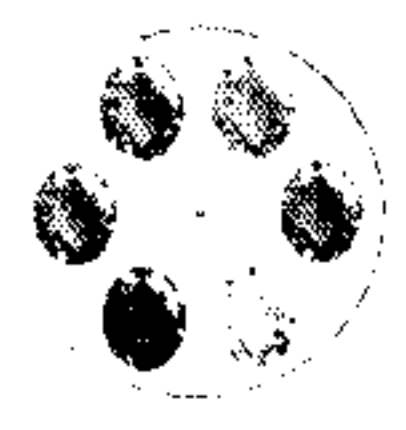


	Analysis comments	FINAL SHUT-IN PERIOD	
	Company D.J. SIMMONS, INC. Well PINTO #1-7	Field PAPOOSE CANYON / DOLORES CO., COL... Test Name / # DST #1 (5627-5690 FT.; LOWER LASAL LI...	

THE DERIVATIVES INDICATE DOMINATION OF WELLBORE STORAGE & TRANSITION EFFECT ON THE SHUT-IN PERIODS. ANY CALCULATIONS (EXTRAPOLATIONS, PERMEABILITY & SKIN) UNDER THESE CONDITIONS ARE AMBIGUOUS AND UNRELIABLE.

THE FIXED PARAMETERS USED WERE AN EST. 10% POROSITY, 6 FT. OF NET PAY REPORTED AND AN AVERAGE (TIME WEIGHTED) PRODUCTION OF 8 BBLs. OF FLUID PER DAY FOR THE FINAL FLOW PERIOD. THE RATES WERE BASED ON DENSITY OF FLUID RECOVERED VS. FLOWING PRESSURES. \* THE OVERALL TEST INDICATES A RESERVOIR WITH FAIRLY LOW POROSITY & VERY LOW PERMEABILITY.



Main results		FINAL SHUT-IN PERIOD
	Company D.J. SIMMONS, INC. Well PINTO #1-7	Field PAPOOSE CANYON / DOLORES CO., COL... Test Name / # DST #1 (5627-5690 FT.; LOWER LASAL LI...
		
Test date / time 11-13-13 Formation interval 5627-5690 FT.; LOWER LASAL LIME Perforated interval Gauge type / # STELLAR# 9635 Gauge depth Analyzed by Analysis date / time		
TEST TYPE Standard		
Porosity Phi (%) 10 Well Radius rw 0.328125 ft Pay Zone h 6 ft		
Form. compr. 3E-6 psi-1 Water Salt (ppm) 10000 So 0.8 Sg 0 Sw 0.2 Reservoir T 128 °F Reservoir P 2276 psia		
Fluid type Oil		
Volume Factor B 1.24269 B/STB Viscosity 0.769485 cp Total Compr. ct 1.40275E-5 psi-1		
Derived & Secondary Parameters		

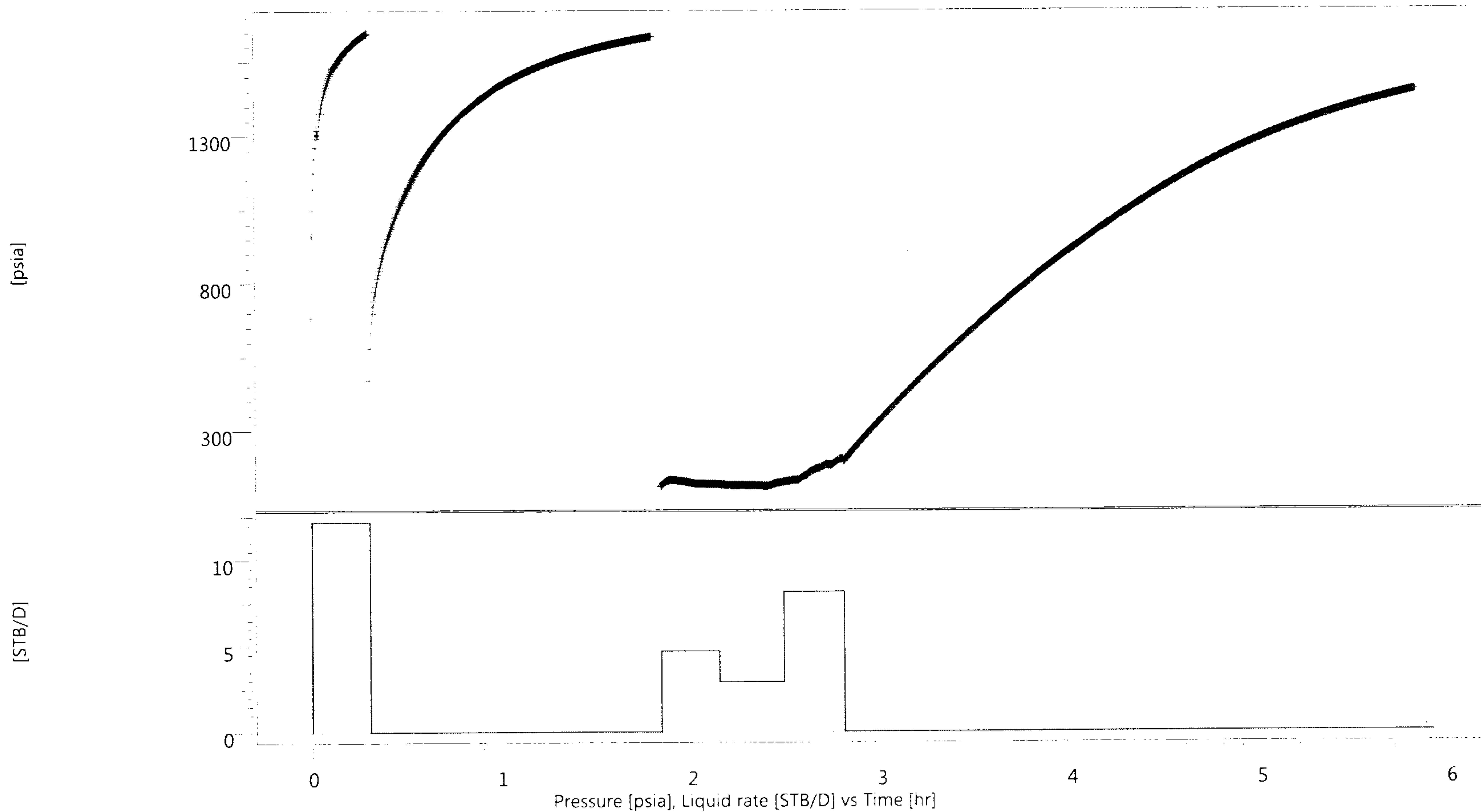


History plot

FINAL SHUT-IN PERIOD

Company D.J. SIMMONS, INC.  
Well PINTO #1-7

Field PAPOOSE CANYON / DOLORES CO., COLORADO  
Test Name / # DST #1 (5627-5690 FT.; LOWER LASAL LIME)





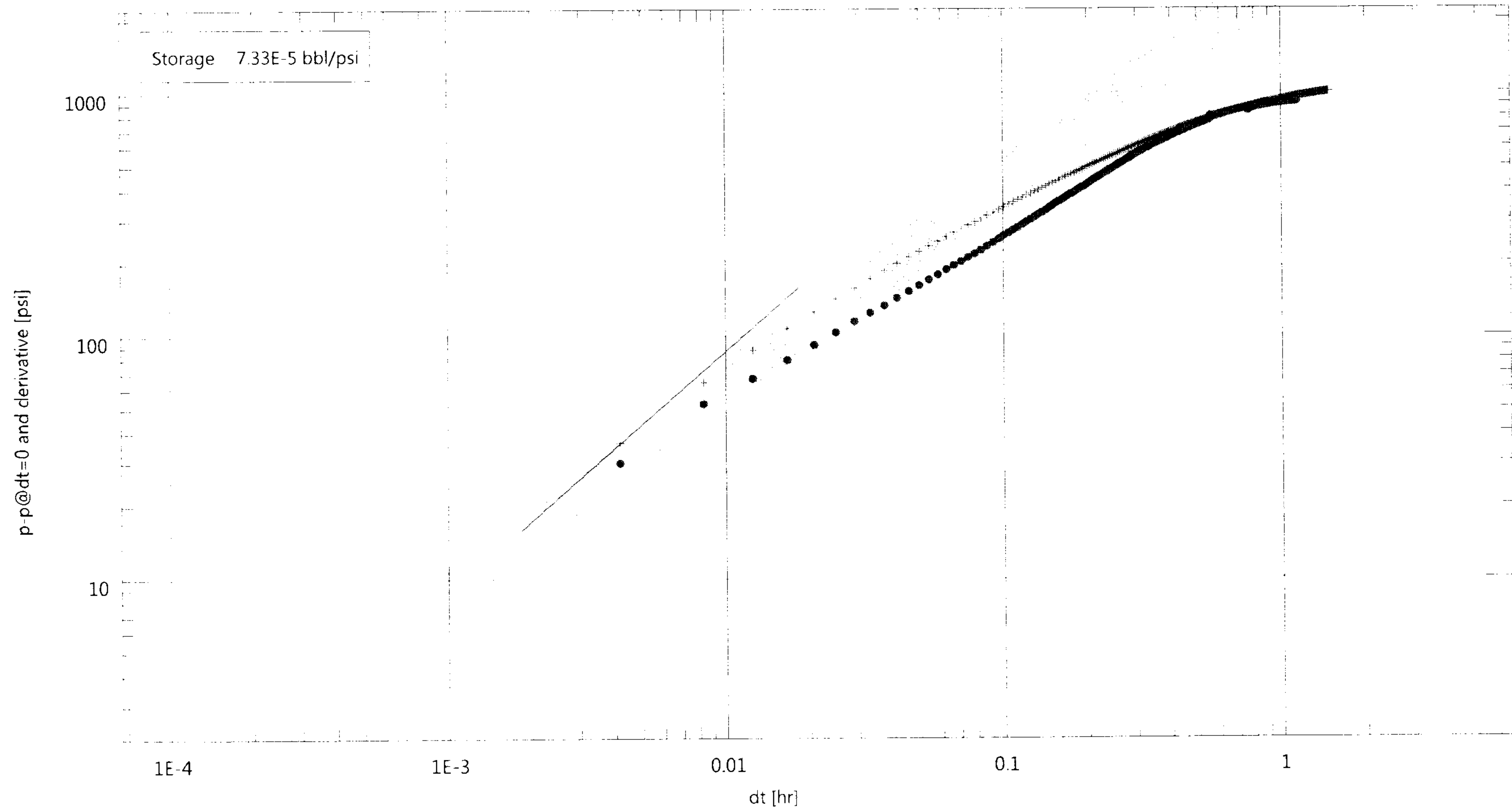


Log-Log plot

INITIAL SHUT-IN PERIOD

Company D.J. SIMMONS, INC.  
Well PINTO #1-7

Field PAPOOSE CANYON / DOLORES CO., COLORADO  
Test Name / # DST #1 (5627-5690 FT.; LOWER LASAL LIME)



RIG  
TESTERS, INC.

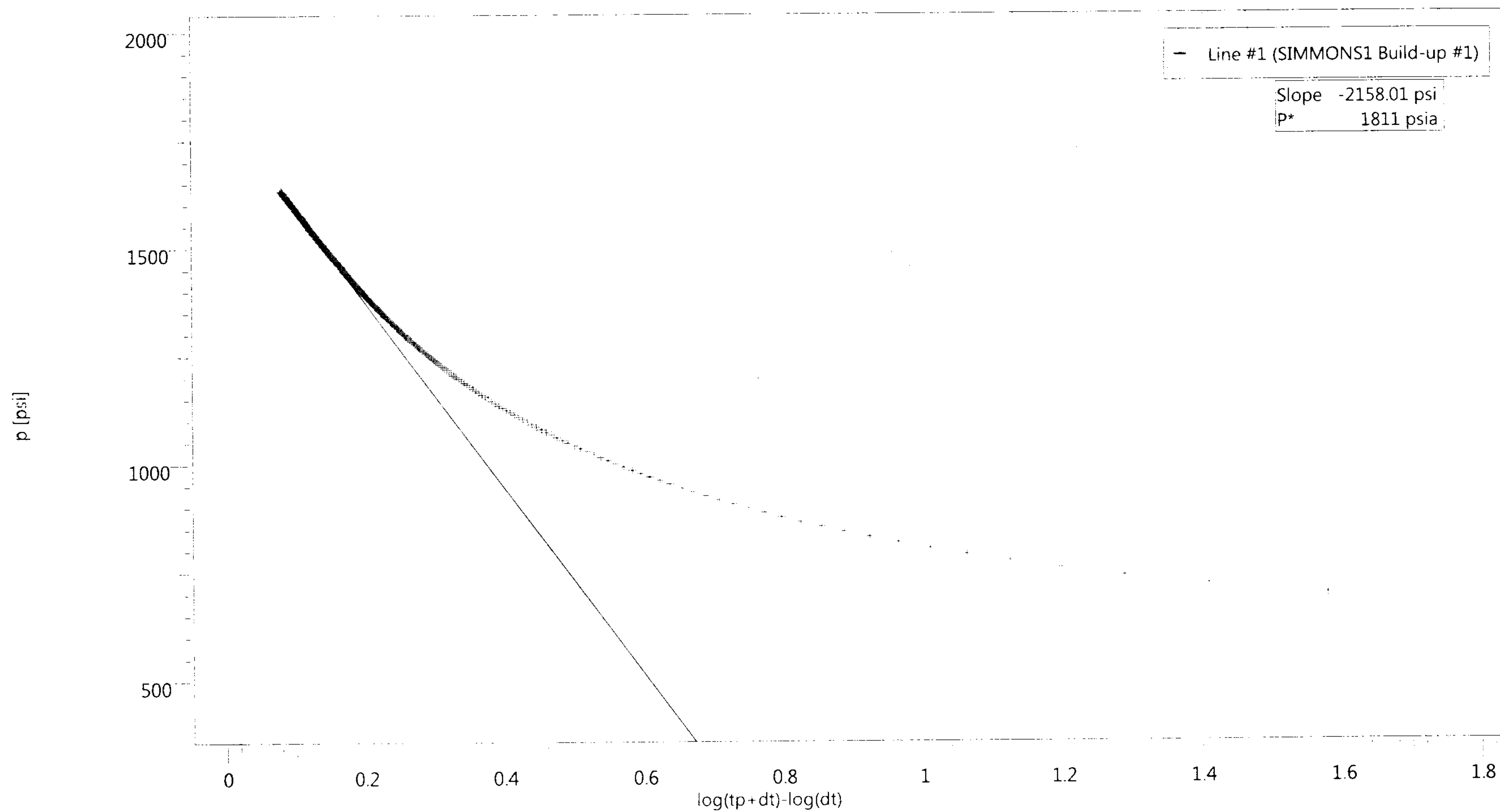


Horner plot

INITIAL SHUT-IN PERIOD

Company D.J. SIMMONS, INC.  
Well PINTO #1-7

Field PAPOOSE CANYON / DOLORES CO., COLORADO  
Test Name / # DST #1 (5627-5690 FT.; LOWER LASAL LIME)



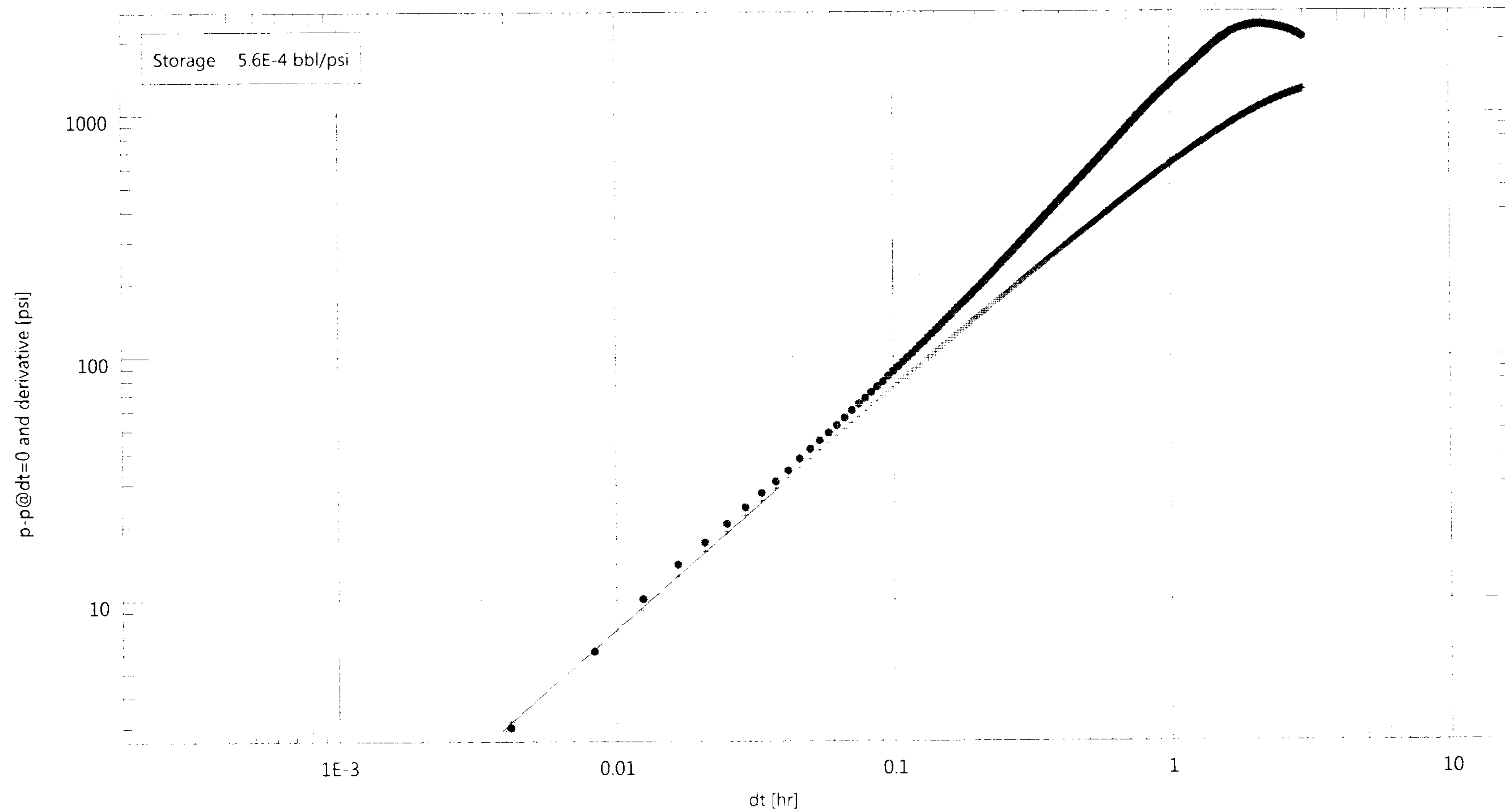


Log-Log plot

FINAL SHUT-IN PERIOD

Company D.J. SIMMONS, INC.  
Well PINTO #1-7

Field PAPOOSE CANYON / DOLORES CO., COLORADO  
Test Name / # DST #1 (5627-5690 FT.; LOWER LASAL LIME)



RIG  
TESTERS, INC.



Horner plot

FINAL SHUT-IN PERIOD

Company D.J. SIMMONS, INC.  
Well PINTO #1-7

Field PAPOOSE CANYON / DOLORES CO., COLORADO  
Test Name / # DST #1 (5627-5690 FT.; LOWER LASAL LIME)

