

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 20075. Lease Serial No.
NM-990151a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
Pogo Producing Company8. Lease Name and Well No.
Seven Rivers 17 Federal #13. Address
P.O. Box 10340, Midland, TX3a. Phone No. (include area code)
432-685-81009. AFI Well No.
30-015-33430

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 1250' FSL & 1650' FWL

10. Field and Pool, or Exploratory
Cemetery Morrow (Gas)

At top prod. interval reported below same

11. Sec., T., R., M., on Block and
Survey or Area 17/20S/25E

At total depth same

12. County or Parish
Eddy County13. State
NM14. Date Spudded
06/10/0415. Date T.D. Reached
07/10/0416. Date Completed 08/03/04
☐ D & A ☒ Ready to Prod.17. Elevations (DF, RKB, RT, GL)*
3518 GL18. Total Depth: MD
TVD 980019. Plug Back T.D.: MD
TVD 975720. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

SPED/CNL, MSFL/DLL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☐ No ☒ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8	48		406		900			
11	8-5/8	32		2614		700			
7-7/8	5-1/2	17		9800		1500			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Morrow	9408	9576			30	
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
9408-9576	Frac w/ 41,000# 20/40 Econoflex + 78,580# 20/40 Interprop

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28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/03	08/08	24	→	0	499	0		.631	Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
3/64	2400		→					Producing	

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28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Venting - W0 right of way - should be hooked up around Oct 15th.

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
San Andres	708				
Glorieta	2280				
Yeso	2542				
Bone Spring	3009				
Wolfcamp	6290				
Cisco	7650				
Strawn	8239				
Atoka	8844				
Morrow Clastic	9300				

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☒ DST Report
 ☒ Directional Survey
☒ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Cathy WrightTitle Sr. Engineering Tech

Signature

Cathy Wright

Date

09/22/04

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



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OCD-ARTESIA

COMPANY : POGO PRODUCING CO.
LEASE : SEVEN RIVERS "17"
WELL NO. : # 1
FIELD : WILDCAT
COUNTY/STATE : EDDY / NEW MEXICO

TEST DATE : 07-06-04
D.S.T. NO. : 1
TEST TKT. NO. : 22863
INVOICE NO. : 20880
ORDER NO. : 541138

CONFIDENTIAL

FORMATION : MORROW SAND
INTERVAL (ft) : 9415 TO 9470
TOTAL DEPTH (ft) : 9470
ELEVATION (ft) :

HOLE SIZE (in) : 7.875
DRILL PIPE ID (in) : 3.82
DRILL COLLAR ID(in): 2.25
DRILL COLLAR feet : 884
ANCHOR LENGTH (ft): 55
TOOL LENGTH (ft) : 65
TOOL O.D. (in) : 5
PACKER SIZE (in) : 7.00

RECORDER DATA
AK-1KUSTER / ZIPROBE

TOP RECORDER: IN
RECORDER NO. : 9634
CAPACITY (psi): 10000
DEPTH (ft) : 9448
CLOCK NO. : 9634
DURATION (hrs): 99

BOTTOM RECORDER: OUT
RECORDER NO. : 16709
CAPACITY (psi): 7350
DEPTH (ft) : 9766
CLOCK NO. : 17908
DURATION (hrs): 24

MUD PROPERTIES

MUD TYPE : DYNA/STARCH/KCL
MUD WT. (#/gal) : 9.10

WATER LOSS (cc) : 7.00
FILTER CAKE (in) : 1/32
VISCOSITY (sec) : 40
CHLORIDE PPM : 30000
RESISTIVITY(ohm-m): .271

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
Z.I. ELECTRONICS(2)

SUCCESSFUL : NO

PACKER FAILURE : NO
TOOL PLUG : YES

DECIDED NOT TO TEST : NO

FAIL TO REACH BOTTOM : NO

TIME INTERVAL DATA (min)

TOOL OPENED : 4:27 PM
INITIAL FLOW : 17
SECOND FLOW : 28
THIRD FLOW :

TOTAL TEST TIME: 136
INITIAL SHUT-IN: 30
SECOND SHUT-IN : 60
THIRD SHUT IN :

TEST TOOL OPERATOR: DANIEL SAMPLES

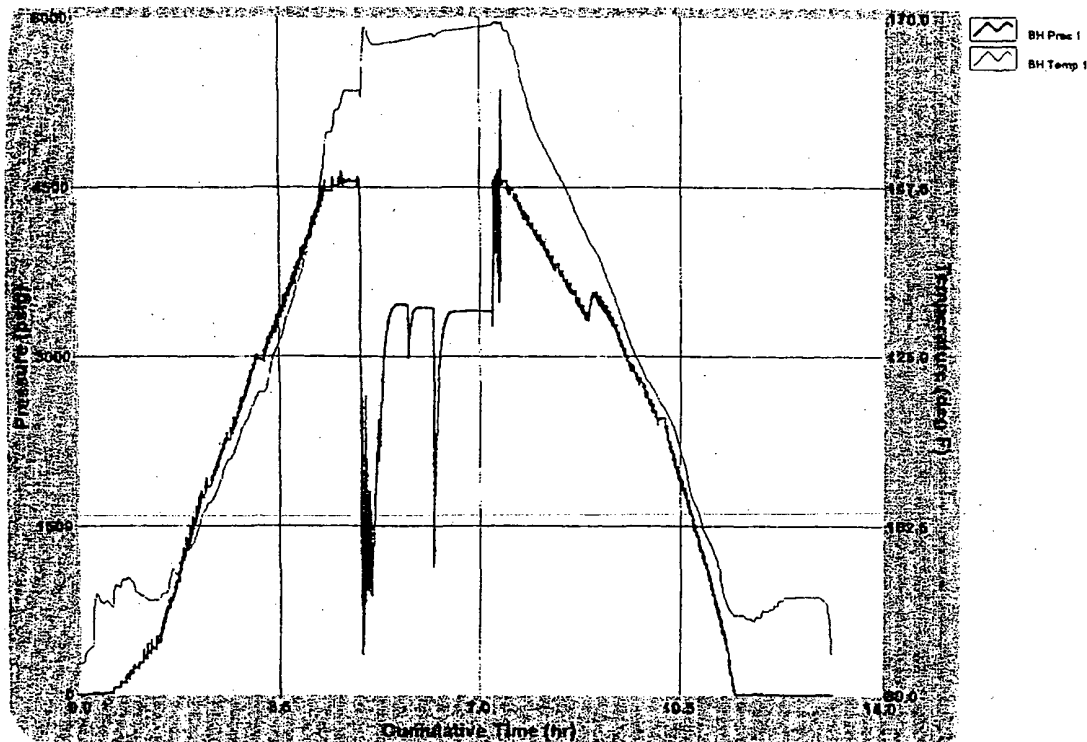


POGO PRODUCING CO.

SEVEN RIVERS "17" # 1
D.S.T. NO. : 1

		CORRECTED READING	FIELD READING
A	INITIAL HYDROSTATIC:	4565 PSI	4565 PSI
B-1	INITIAL FIRST FLOW :	370 PSI	PSI
B-2	FINAL FIRST FLOW :	2087 PSI	PSI
C	FIRST SHUT-IN :	3464 PSI	3447 PSI
D-1	INITIAL SECOND FLOW:	3002 PSI	PSI
D-2	FINAL SECOND FLOW :	1153 PSI	PSI
E	SECOND SHUT-IN :	3409 PSI	3409 PSI
H	FINAL HYDROSTATIC :	4540 PSI	4540 PSI

RIG TESTERS INC#9634



RECOVERY DATA

PIPE RECOVERY

B.H. TEMP. (deg F) : 169

SAMPLE CHAMBER

100 FT. OF SLIGHTLY GAS CUT MUD (WITH CUTTINGS)
30,000 MG/L CHLORIDES- .271 OHMS @ 85 DEGREES

1500 LBS. OF PRESSURE
.20 CU. FT. OF GAS
1500 CC'S OF DRLG. MUD
WITH CUTTINGS

TEST REMARKS

TOOL OPENED & SLID 5 FT. TO BOTTOM WITH FAIR BLOW ON 1/8" CHOKE, 2 OZS. IN 5 MIN., 2.5 OZS. IN 10 MIN. & 2 OZS. AT END OF THE 15 MIN. FIRST FLOW. REOPENED TOOL ON 1/8" CHOKE WITH 1/2 OZ. IN 5 MIN., 1/2 OZ. IN 15 MIN., NO BLOW IN 25 MIN. & REMAINED THROUGHOUT THE 30 MIN. FINAL FLOW PERIOD.

(MISS-RUN; TOOL PLUGGED)

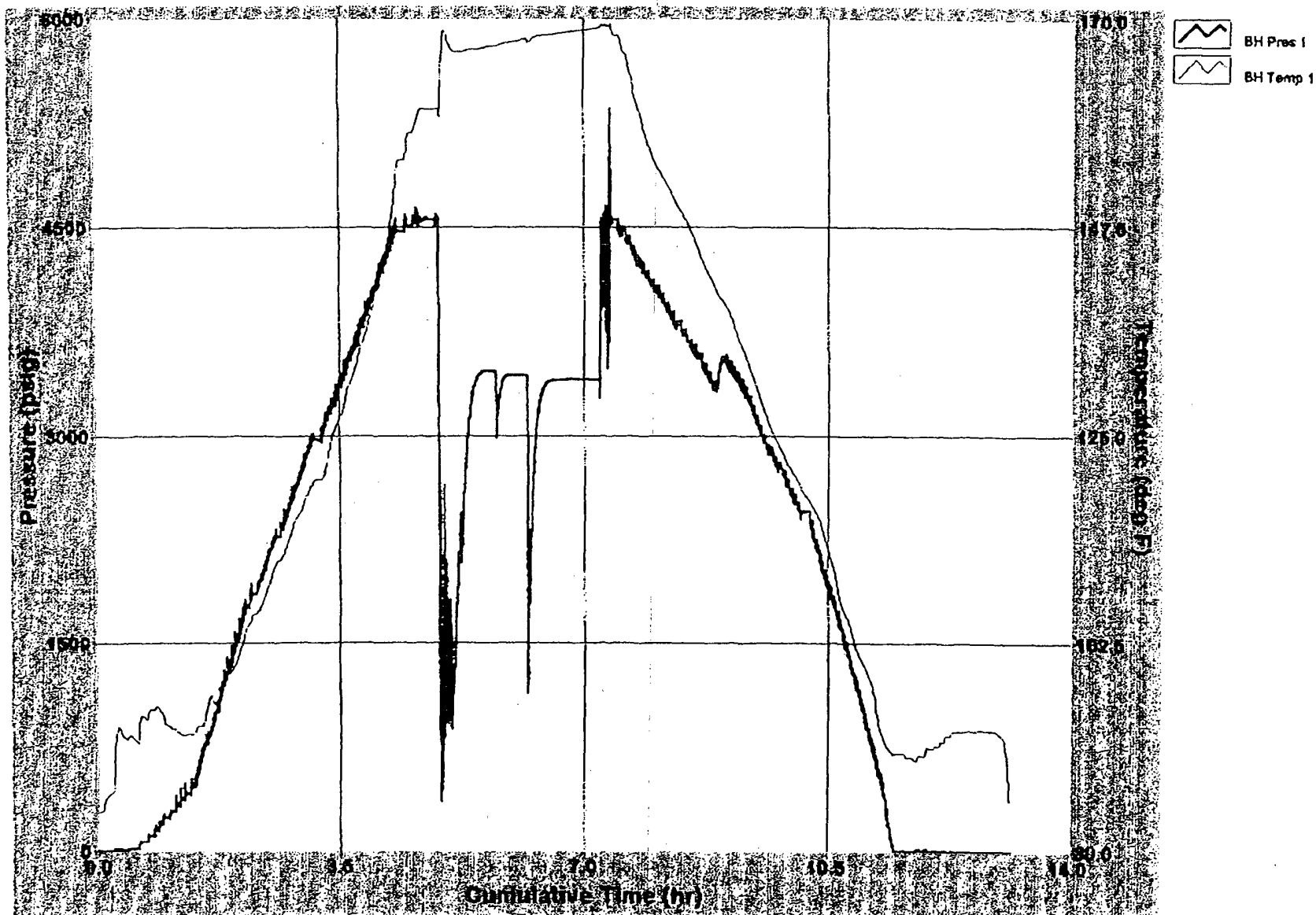


Company Name
Well Name
Type of Test
Date(s) of Test

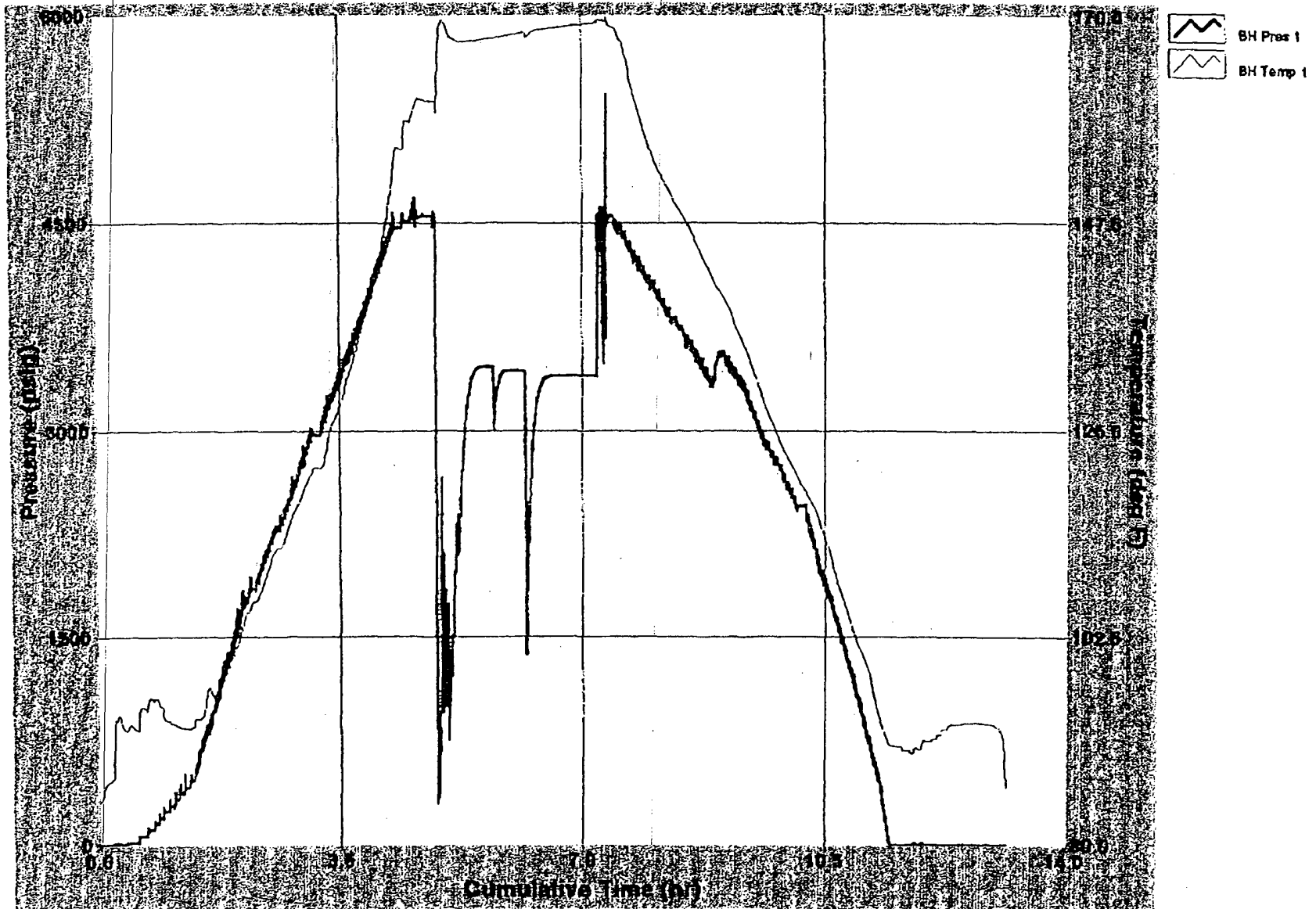
POGO PRODUCING CO
SEVEN RIVERS FED 17 # 1; EDDY N.M.; MARROW SAI
DST#1; 55' TESTED; 15' OF PAY
7/08/04; TESTER- DANIEL SAMPLES



RIG TESTERS INC#9634



RIG TESTERS INC #9635





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MCH-ARTESIA

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COMPANY : POGO PRODUCING CO.
LEASE : SEVEN RIVERS FED. "17"
WELL NO. : # 1
FIELD : WILDCAT
COUNTY/STATE : EDDY / NEW MEXICO

TEST DATE : 07-08-04
D.S.T. NO. : 2
TEST TKT. NO. : 22864
INVOICE NO. : 20883
ORDER NO. : 541138

FORMATION : LOWER MORROW SAND HOLE SIZE (in) : 7.875 ANCHOR LENGTH (ft): 158
INTERVAL (ft) : 9492 TO 9650 DRILL PIPE ID (in) : 3.82 TOOL LENGTH (ft) : 76
TOTAL DEPTH (ft): 9650 DRILL COLLAR ID(in): 2.25 TOOL O.D. (in) : 5
ELEVATION (ft) : DRILL COLLAR feet : 792 PACKER SIZE (in) : 7.00

RECORDER DATA
AK-1KUSTER / ZIPROBE

TOP RECORDER: IN
RECORDER NO. : 9634
CAPACITY (psi): 10000
DEPTH (ft) : 9515
CLOCK NO. : 9634
DURATION (hrs): 99

BOTTOM RECORDER: OUT
RECORDER NO. : 16709
CAPACITY (psi): 7350
DEPTH (ft) : 9646
CLOCK NO. : 17908
DURATION (hrs): 24

MUD PROPERTIES

MUD TYPE : DYNA/STARCH/KCL WATER LOSS (cc) : 8.00 CHLORIDE PPM : 32000
MUD WT. (#/gal) : 9.50 FILTER CAKE (in) : 2/32 RESISTIVITY(ohm-m): .262
VISCOSITY (sec) : 80

EQUIPMENT DATA

CONVENTIONAL : YES ROTARY JARS : YES MULTIFLOW : NO
STRADDLE : NO NO. OF PACKERS : 2 MILEAGE : NO
SELECTIVE ZONE : NO SAFETY JOINT : YES OPERATOR TIME : NO
SAMPLE CHAMBER : YES CIRCULATING SUB : YES OTHER : YES
GAS ANALYSIS : YES REVERSED OUT : NO Z.I. 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 : 12:00 AM

TOTAL TEST TIME: 266

INITIAL FLOW : 29
SECOND FLOW : 53
THIRD FLOW :

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

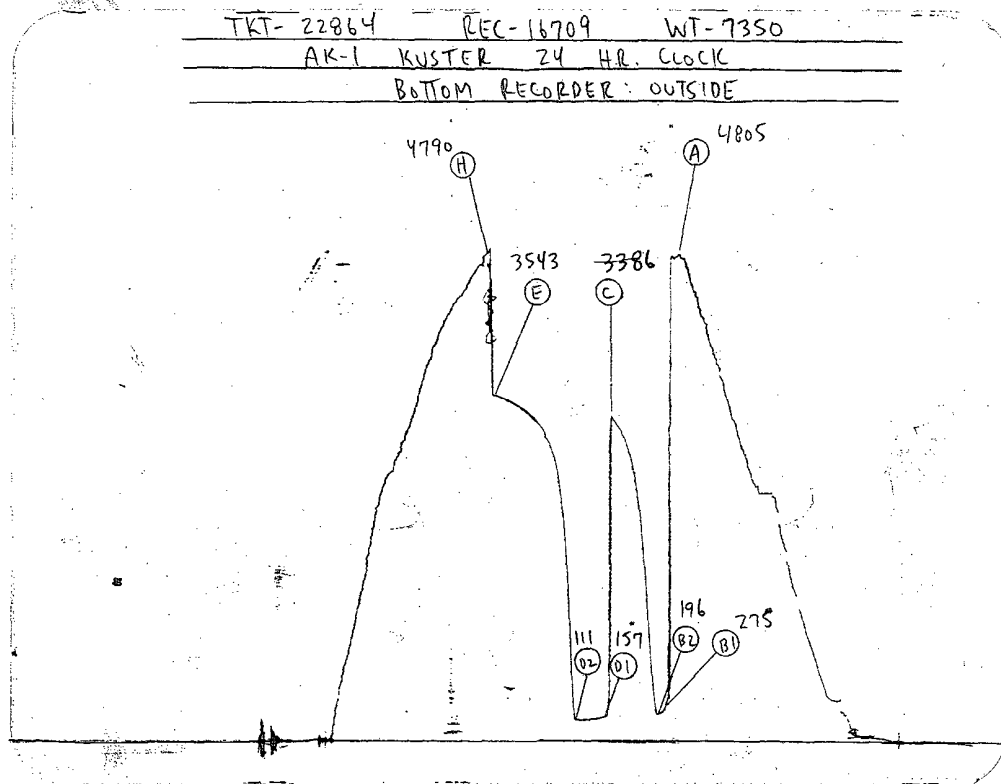
TEST TOOL OPERATOR: DANIEL SAMPLES



POGO PRODUCING CO.

SEVEN RIVERS FED. "17" # 1
D.S.T. NO. : 2

	CORRECTED READING	FIELD READING
A INITIAL HYDROSTATIC:	4726 PSI	4726 PSI
B-1 INITIAL FIRST FLOW :	206 PSI	206 PSI
B-2 FINAL FIRST FLOW :	126 PSI	128 PSI
C FIRST SHUT-IN :	3314 PSI	3310 PSI
D-1 INITIAL SECOND FLOW:	79 PSI	75 PSI
D-2 FINAL SECOND FLOW :	146 PSI	145 PSI
E SECOND SHUT-IN :	3471 PSI	3466 PSI
H FINAL HYDROSTATIC :	4711 PSI	4622 PSI



RECOVERY DATA

PIPE RECOVERY

B.H. TEMP. (deg F) : 165

SAMPLE CHAMBER

GAS TO SURFACE 40 MIN. INTO INITIAL SHUT-IN PERIOD
275 FT. OF GAS CUT DRLG. MUD (TRACE OF OIL)
33,000 MG/L CHLORIDES- .259 OHMS @ 85 DEGREES

140 LBS. OF PRESSURE
3.50 CU. FT. OF GAS
1900 CC'S OF DRLG. MUD
WITH TRACE OF OIL
33,000 MG/L CHLORIDES
.259 OHMS @ 85 DEGREES

TEST REMARKS

TOOL OPENED WITH GOOD BLOW ON 1/4" CHOKE, 1 LB. IN 5 MIN., 4 LBS. IN 15 MIN., 5.5 LBS. IN 20 MIN., 8 LBS. IN 25 MIN. & 9.5 LBS. AT END OF THE 30 MIN. FIRST FLOW PERIOD. GAS TO SURFACE 40 MIN. INTO INITIAL SHUT-IN. REOPENED TOOL ON 1/4" CHOKE, 13.5 LBS.(41 MCFPD) IN 10 MIN., 18 LBS.(48 MCFPD) IN 20 MIN., 24.5 LBS.(57 MCFPD) IN 30 MIN., 29 LBS.(64 MCFPD) IN 40 MIN., 32 LBS.(68 MCFPD) IN 50 MIN. & 34 LBS.(71 MCFPD) ON 1/4" AT END OF THE 60 MIN. FINAL FLOW PERIOD.

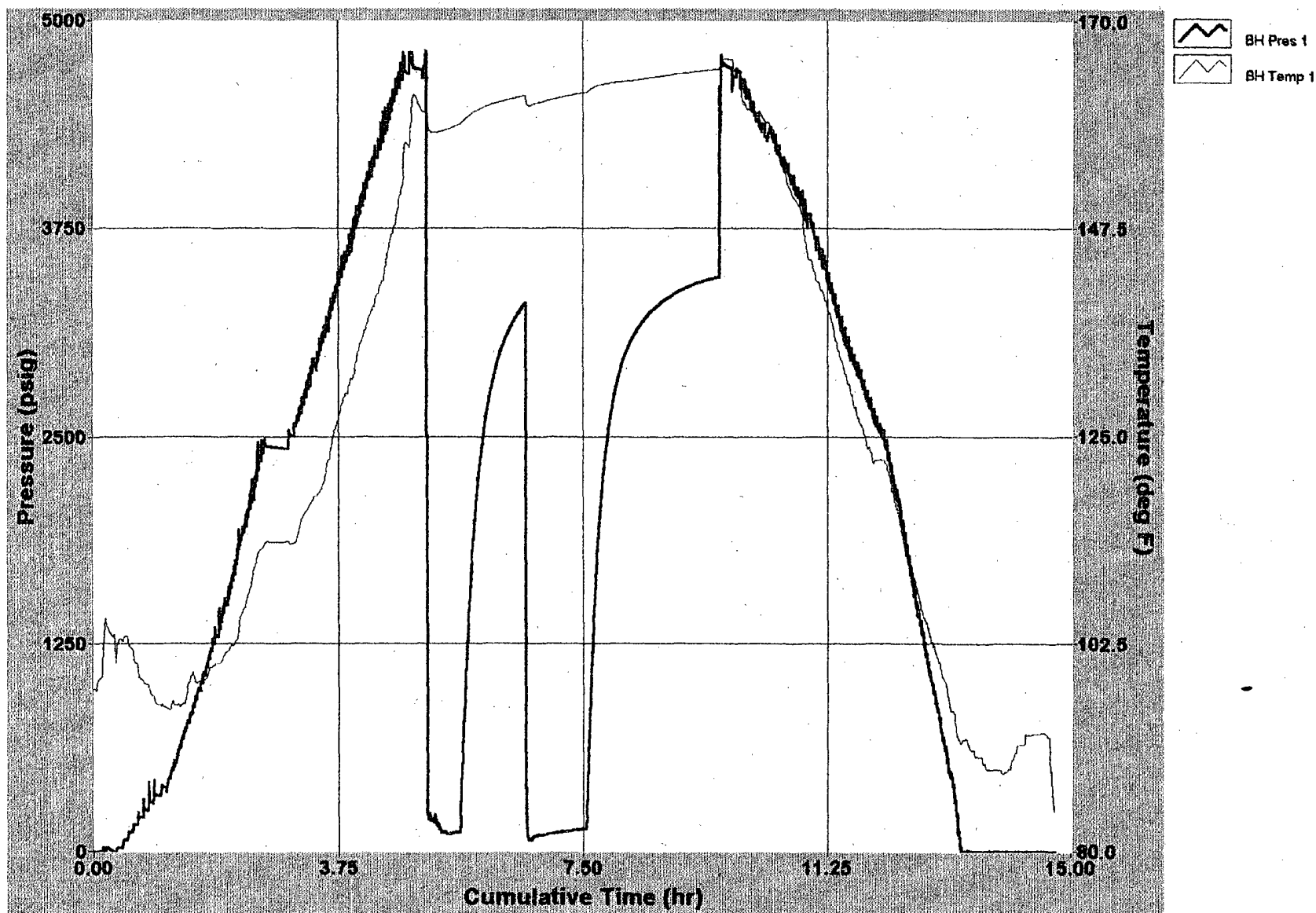


Company Name
Well Name
Type of Test
Date(s) of Test

POGO PRODUCING CO
SEVEN FIVERS FED 17 #1; EDDY CO; LOWER MARRO
DST#2; 158' TESTED; 30' OF PAY
7/08/04; TESTER- DANIEL SAMPLES



RIG TESTERS INC #9634



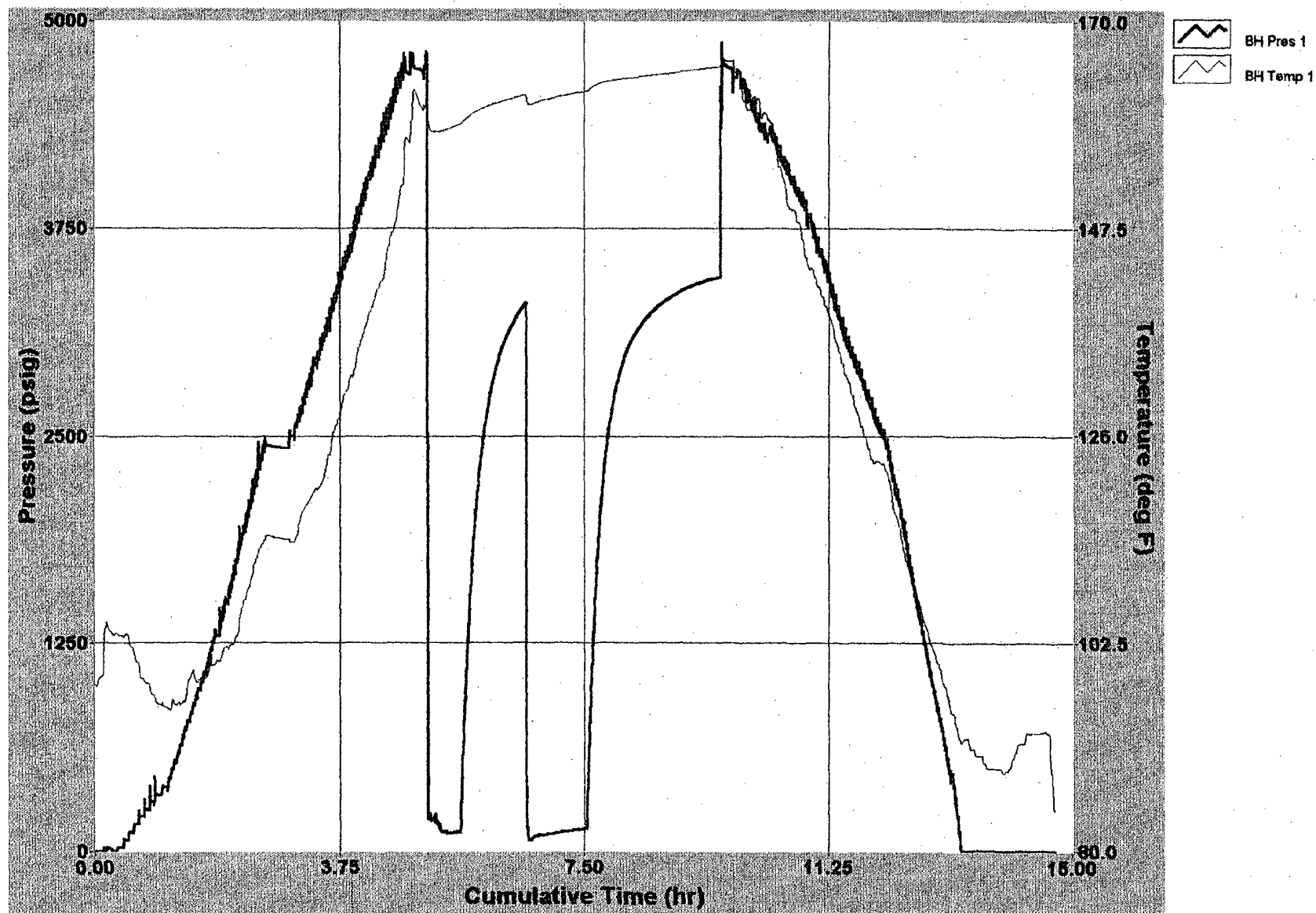


Company Name
Well Name
Type of Test
Date(s) of Test

POGO PRODUCING CO
SEVEN FIVERS FED 17 #1; EDDY CO; LOWER MARRO
DST#2: 158' TESTED; 30' OF PAY
7/08/04; TESTER- DANIEL SAMPLES



RIG TESTERS INC #9635





INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 9515 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			206.10	.00
2.0	2.0			218.26	12.16
4.0	4.0			197.37	-8.73
6.0	6.0			215.30	9.20
8.0	8.0			173.87	-32.23
10.0	10.0			156.63	-49.47
12.0	12.0			127.90	-78.20
14.0	14.0			128.75	-77.35
16.0	16.0			127.47	-78.63
18.0	18.0			115.70	-90.40
20.0	20.0			120.39	-85.71
22.0	22.0			121.35	-84.75
24.0	24.0			125.40	-80.70
26.0	26.0			126.70	-79.40
28.0	28.0			128.04	-78.06
29.0	29.0			126.10	-80.00
FIRST SHUT-IN					
29.0	29.0	.00	.000	126.10	.00
29.5	29.0	.50	58.960	189.37	63.27
30.0	29.0	1.00	29.980	281.88	155.78
30.5	29.0	1.50	20.320	382.60	256.50
31.0	29.0	2.00	15.490	469.63	343.53
31.5	29.0	2.50	12.592	562.38	436.28
32.0	29.0	3.00	10.660	653.60	527.50
32.5	29.0	3.50	9.280	741.16	615.06
33.0	29.0	4.00	8.245	817.11	691.01
33.5	29.0	4.50	7.440	900.30	774.20
34.0	29.0	5.00	6.796	972.38	846.28
35.0	29.0	6.00	5.830	1124.50	998.40
36.0	29.0	7.00	5.140	1259.79	1133.69
37.0	29.0	8.00	4.623	1387.51	1261.41
38.0	29.0	9.00	4.220	1513.00	1386.90
39.0	29.0	10.00	3.898	1624.39	1498.29
41.0	29.0	12.00	3.415	1832.90	1706.80
43.0	29.0	14.00	3.070	2010.55	1884.45
45.0	29.0	16.00	2.811	2169.54	2043.44
47.0	29.0	18.00	2.610	2309.20	2183.10
49.0	29.0	20.00	2.449	2427.91	2301.81
52.0	29.0	23.00	2.260	2580.18	2454.08
55.0	29.0	26.00	2.115	2704.45	2578.35
58.0	29.0	29.00	1.999	2808.23	2682.13
61.0	29.0	32.00	1.906	2895.51	2769.41
64.0	29.0	35.00	1.828	2969.34	2843.24
67.0	29.0	38.00	1.763	3032.52	2906.42



INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 9515 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					
70.0	29.0	41.00	1.707	3087.13	2961.03
73.0	29.0	44.00	1.659	3134.61	3008.51
76.0	29.0	47.00	1.617	3176.36	3050.26
79.0	29.0	50.00	1.580	3213.39	3087.29
82.0	29.0	53.00	1.547	3246.25	3120.15
85.0	29.0	56.00	1.518	3275.77	3149.67
88.0	29.0	59.00	1.491	3302.23	3176.13
89.5	29.0	60.48	1.479	3314.90	3188.80
SECOND FLOW					
92.2	31.7			79.20	.00
95.2	34.7			85.60	6.40
98.2	37.7			102.20	23.00
101.2	40.7			109.40	30.20
104.2	43.7			107.90	28.70
107.2	46.7			111.90	32.70
110.2	49.7			115.10	35.90
113.2	52.7			116.50	37.30
116.2	55.7			119.40	40.20
119.2	58.7			124.00	44.80
122.2	61.7			128.30	49.10
125.2	64.7			130.60	51.40
128.2	67.7			132.50	53.30
131.2	70.7			135.10	55.90
134.2	73.7			138.10	58.90
137.2	76.7			140.30	61.10
140.2	79.7			143.80	64.60
143.2	82.7			146.20	67.00
145.3	84.8			146.60	67.40
SECOND SHUT-IN					
145.3	84.8	.00	.000	146.60	.00
146.3	84.8	1.00	85.780	353.50	206.90
147.3	84.8	2.00	43.390	566.31	419.71
148.3	84.8	3.00	29.260	762.30	615.70
149.3	84.8	4.00	22.195	953.92	807.32
150.3	84.8	5.00	17.956	1119.86	973.26
151.3	84.8	6.00	15.130	1272.90	1126.30
152.3	84.8	7.00	13.111	1422.72	1276.12
153.3	84.8	8.00	11.598	1552.73	1406.13



INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

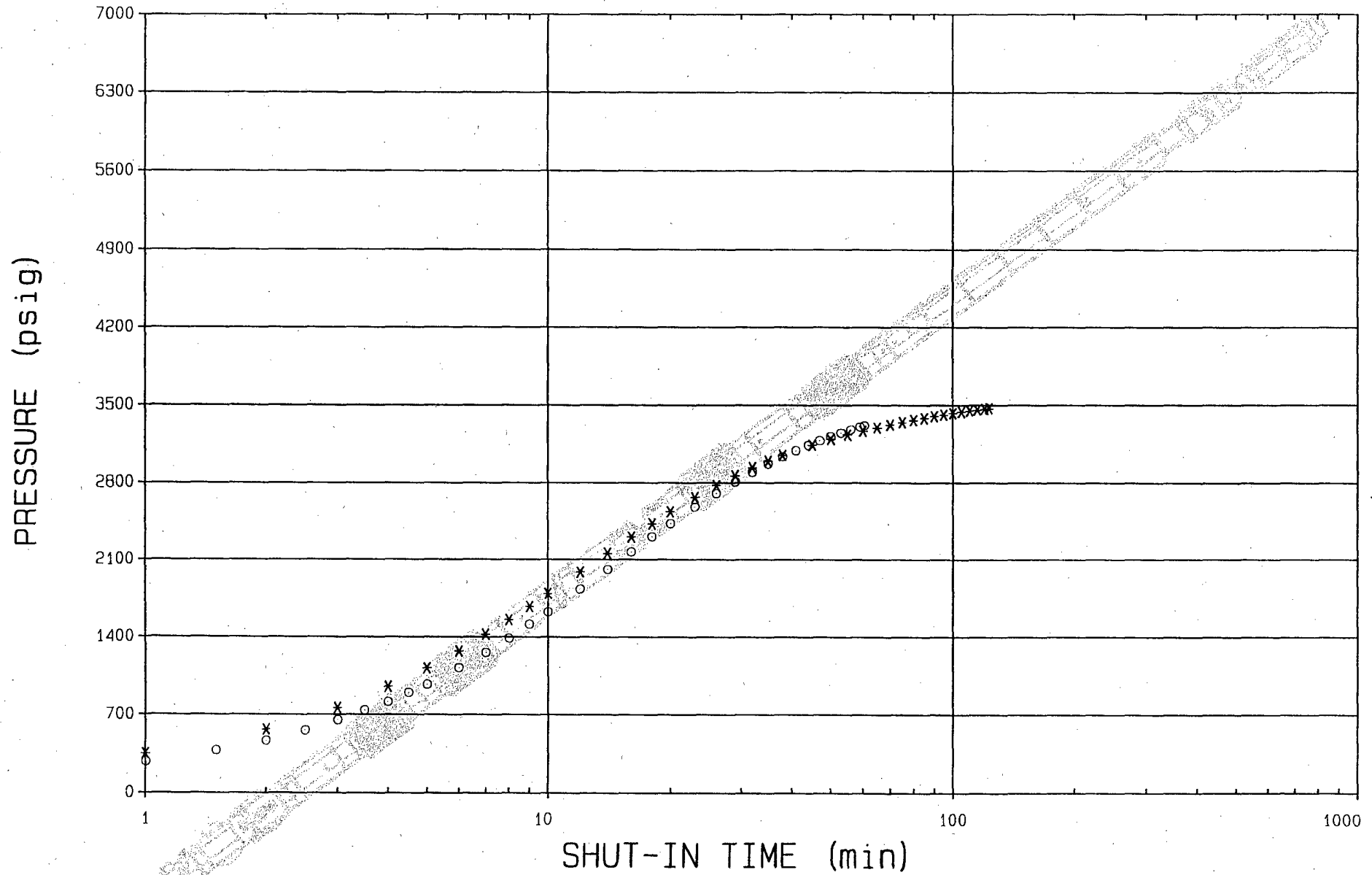
RECORDER DEPTH : 9515 ft

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					
154.3	84.8	9.00	10.420	1672.70	1526.10
155.3	84.8	10.00	9.478	1790.30	1643.70
157.3	84.8	12.00	8.065	1986.30	1839.70
159.3	84.8	14.00	7.056	2158.22	2011.62
161.3	84.8	16.00	6.299	2304.67	2158.07
163.3	84.8	18.00	5.710	2426.30	2279.70
165.3	84.8	20.00	5.239	2534.42	2387.82
168.3	84.8	23.00	4.686	2666.62	2520.02
171.3	84.8	26.00	4.261	2774.06	2627.46
174.3	84.8	29.00	3.923	2861.24	2714.64
177.3	84.8	32.00	3.649	2933.15	2786.55
180.3	84.8	35.00	3.422	2993.08	2846.48
183.3	84.8	38.00	3.231	3043.82	2897.22
190.3	84.8	45.00	2.884	3136.00	2989.40
195.3	84.8	50.00	2.696	3186.69	3040.09
200.3	84.8	55.00	2.541	3228.42	3081.82
205.3	84.8	60.00	2.413	3263.00	3116.40
210.3	84.8	65.00	2.304	3293.11	3146.51
215.3	84.8	70.00	2.211	3319.20	3172.60
220.3	84.8	75.00	2.130	3341.90	3195.30
225.3	84.8	80.00	2.060	3362.38	3215.78
230.3	84.8	85.00	1.997	3380.77	3234.17
235.3	84.8	90.00	1.942	3397.50	3250.90
240.3	84.8	95.00	1.892	3412.66	3266.06
245.3	84.8	100.00	1.848	3426.30	3279.70
250.3	84.8	105.00	1.807	3438.20	3291.60
255.3	84.8	110.00	1.771	3448.93	3302.33
260.3	84.8	115.00	1.737	3458.28	3311.68
265.3	84.8	120.00	1.707	3466.60	3320.00
268.3	84.8	123.00	1.689	3471.10	3324.50

REMARKS

THE INCREMENTAL DATA, PLOTS & 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



POGO PRODUCING CO.
SEVEN RIVERS FED. "17" # 1

○ FIRST SHUT-IN
* SECOND SHUT-IN



Well Test Report

RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM

POGO PRODUCING CO. SEVEN RIVERS FED. "17" #1

Well identification

Well ID	7 RIVERS "17" #1	Well location	N. CARLSBAD
County/District	EDDY	State, Country	NEW MEXICO
Company	POGO PRODUCING	Division	MIDLAND

Fluid properties

Prod/Inj fluid	GAS	GOR	
Water cut	0%	Condensate yield	UNKNOWN
API gravity		Gas spec. grav.	0.7
Viscosity	2.2161e-2 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)	155.48 e-6/psi	Formation vol factor	0.75292 RB/MSCF

Reservoir properties

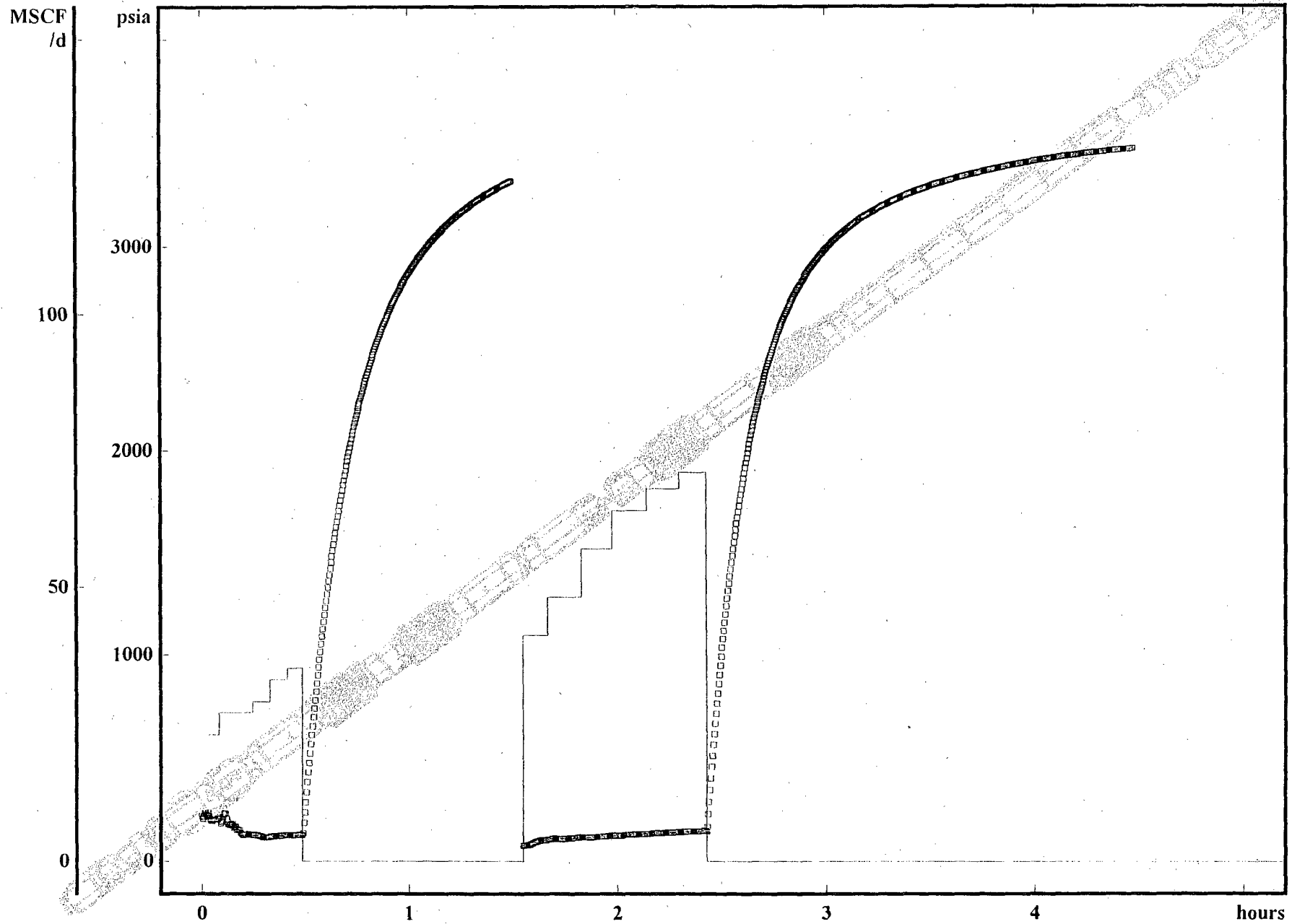
Porosity	0.14 frac	Formation thickness	30 ft
Wellbore radius	0.32813 ft	Prod-observer distance	N/A
Water-Oil Contact	UNKNOWN	Gas-Oil Contact	N/A
Gas-Water Contact	N/A	Rock compressibility	
Reservoir temperature	165 deg F	Pressure for properties	3700 psia

Comments

THE DERIVATIVES INDICATE A RESERVOIR WITH LOW PERMEABILITY AND NO (NEGATIVE) SKIN. THE INITIAL SHUT-IN PERIOD IS DOMINATED BY WELLBORE STORAGE AND TRANSITION EFFECT WHICH WOULD MAKE ITS CALCULATIONS (EXTRAPOLATION, PERMEABILITY & SKIN) UNDER THIS CONDITION UNRELIABLE. THE FINAL SHUT-IN PERIOD INDICATES A MULTIPLE POROSITY RESPONSE WHICH IS DUE TO A LAYERING EFFECT WITH-IN FORMATION TESTED. 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. 14% POROSITY, 30 FT. OF NET PAY REPORTED & A GAS FLOWING RATE OF 71 MCFPD MEASURED AT SURFACE THROUGH A 1/4" CHOKE AT END OF THE FINAL FLOW. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO ONLY 3.8 FT. FROM WELLBORE.

POGO PRODUCING CO. SEVEN RIVERS FED. "17" #1

Pressure and flow rate vs time during test sequence

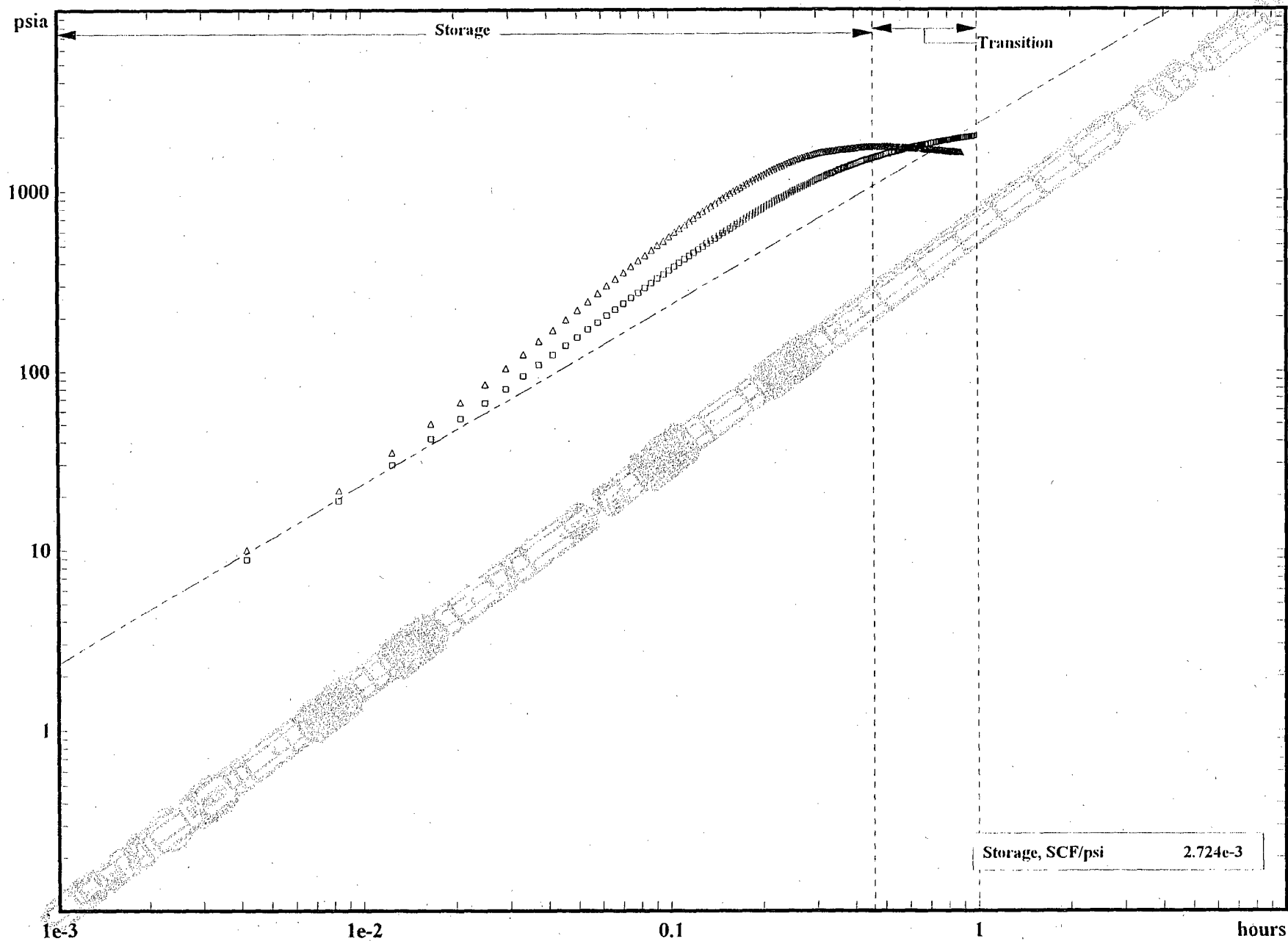


DST #2 9492 - 9650 FT. LOWER MORROW SAND



POGO PRODUCING CO. SEVEN RIVERS FED. "17" #1

Diagnostic plot (normalized pseudopressure & time)

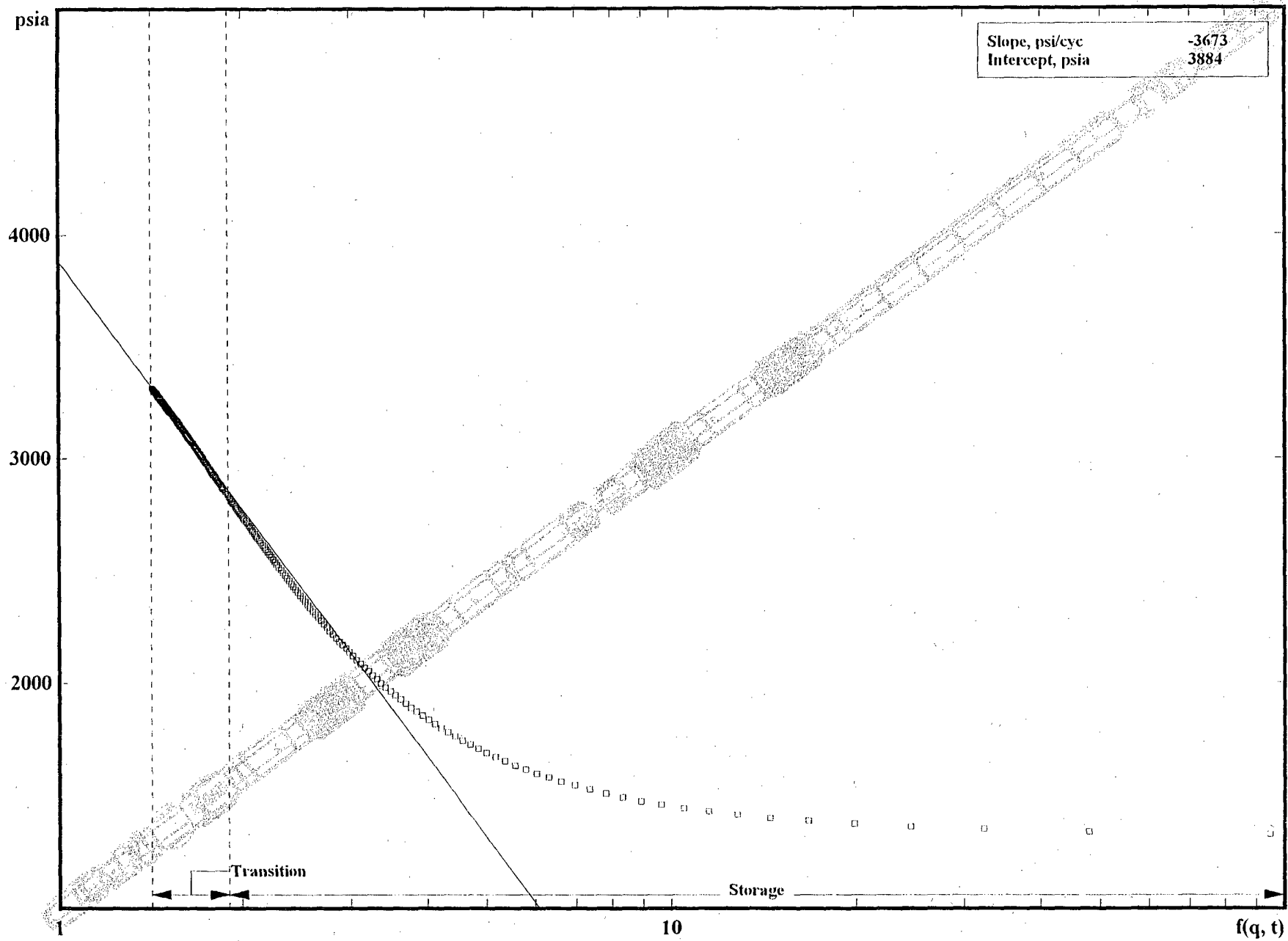


INITIAL SHUT-IN PERIOD DST#2



POGO PRODUCING CO. SEVEN RIVERS FED. "17" #1

Variable rate Horner plot (normalized pseudopressure & time)

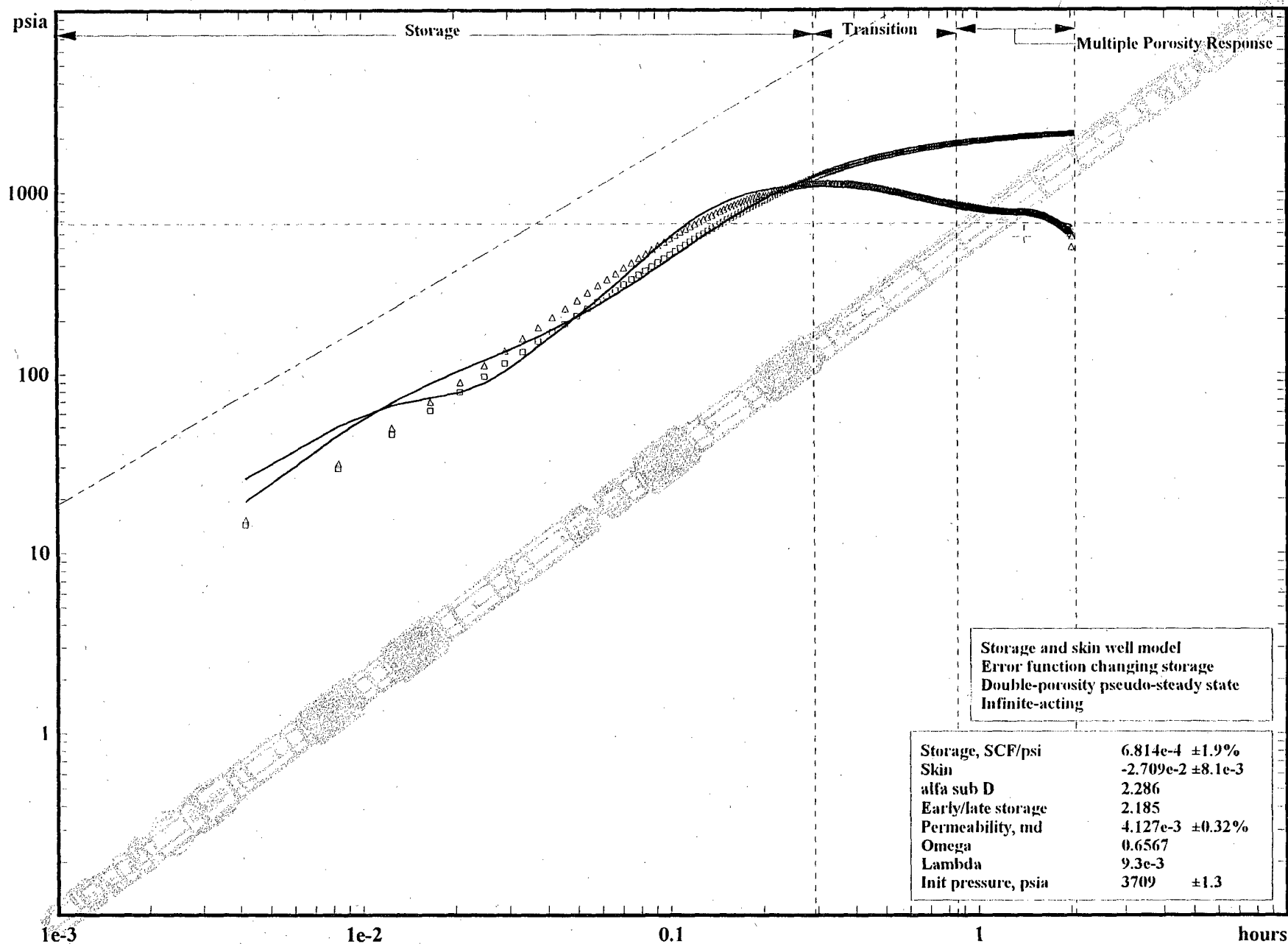


INITIAL SHUT-IN PERIOD DST#2



POGO PRODUCING CO. SEVEN RIVERS FED. "17" #1

Diagnostic plot (normalized pseudopressure & time)

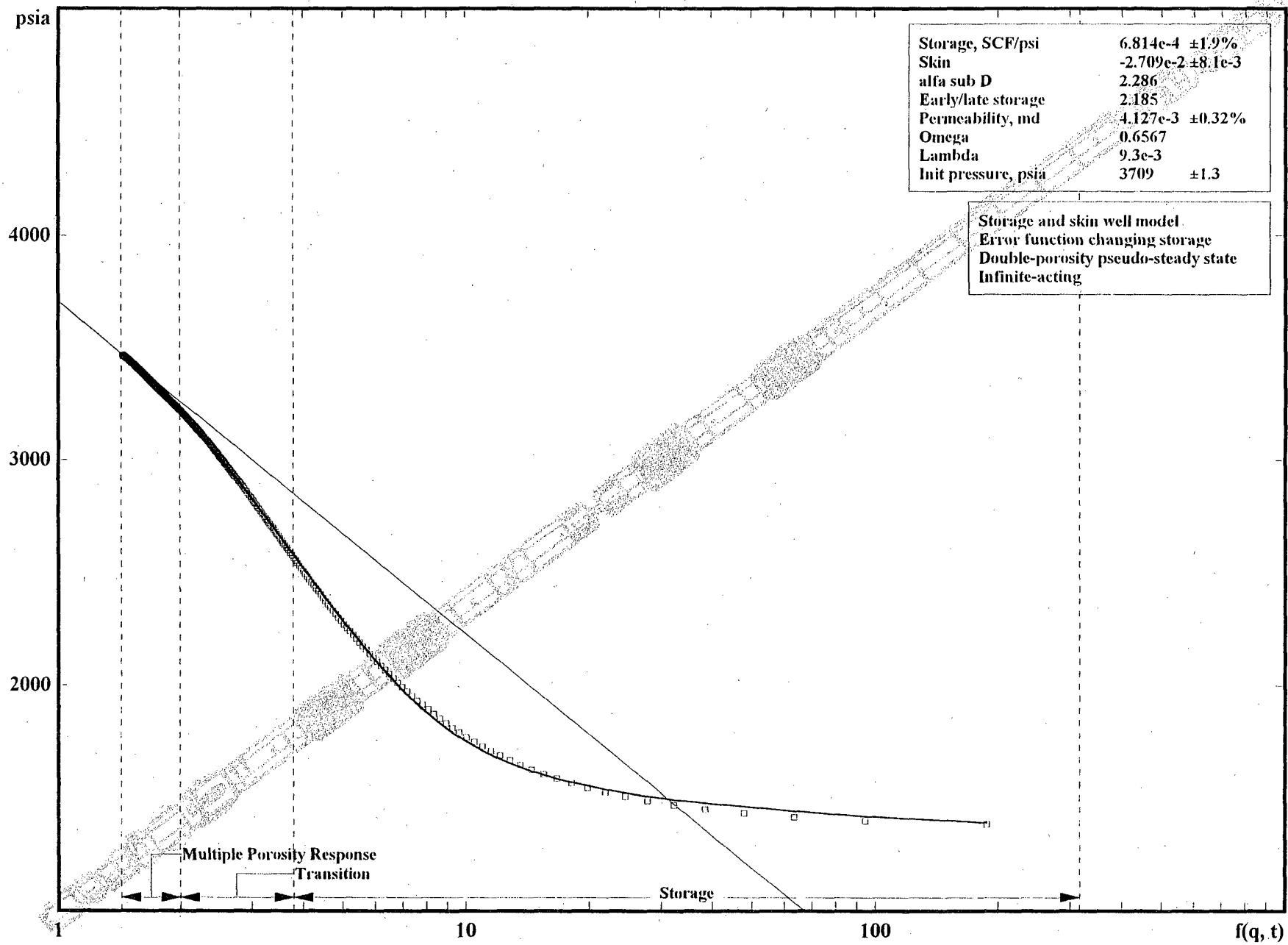


FINAL SHUT-IN PERIOD DST#2 REGRESSION VERIFIED MODEL



POGO PRODUCING CO. SEVEN RIVERS FED. "17" #1

Variable rate Horner plot (normalized pseudopressure & time)

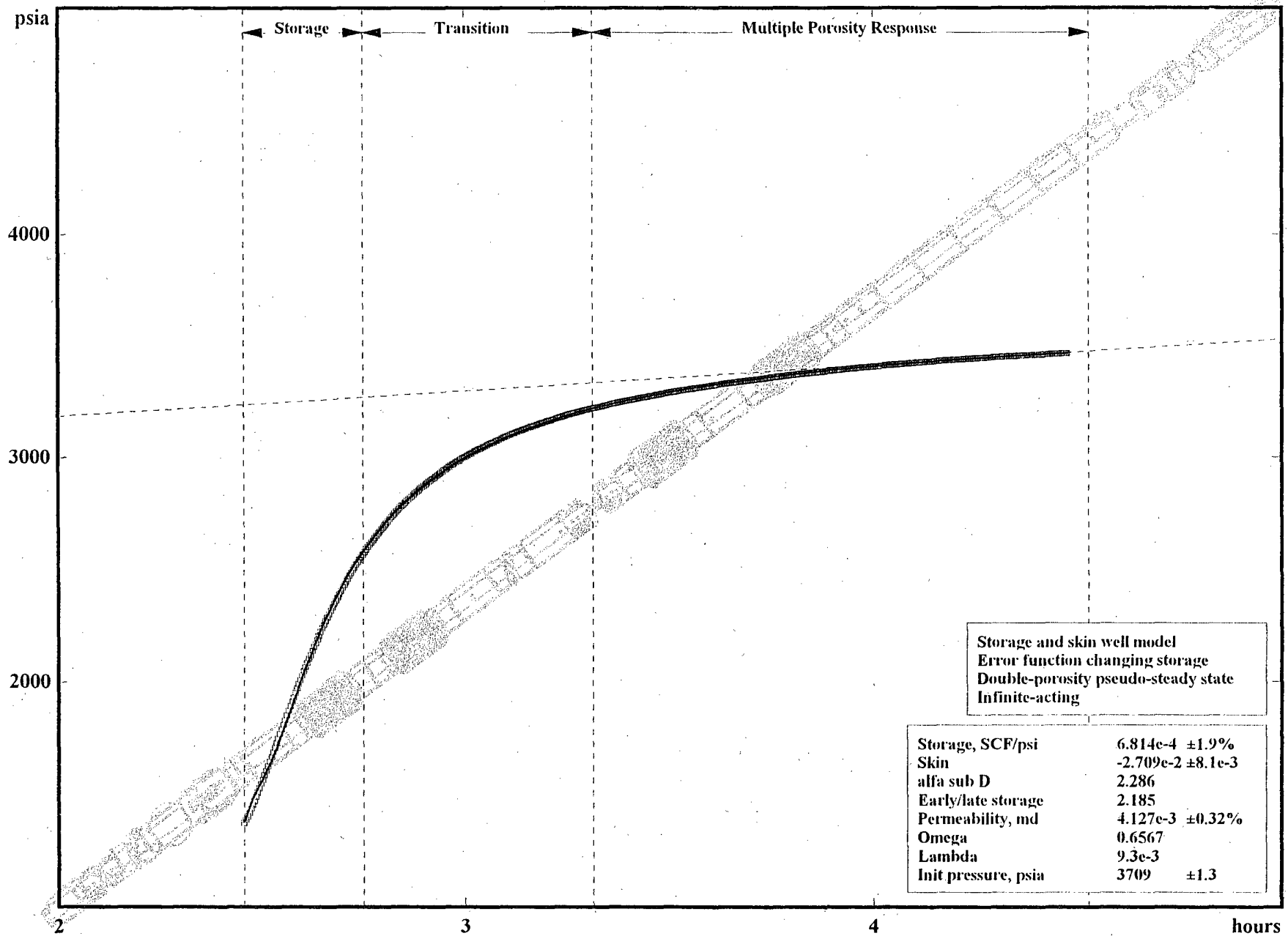


FINAL SHUT-IN PERIOD DST#2 REGRESSION VERIFIED MODEL



POGO PRODUCING CO. SEVEN RIVERS FED. "17" #1

Cartesian plot (normalized pseudopressure & time)



FINAL SHUT-IN PERIOD DST#2 REGRESSION VERIFIED MODEL

