DATE IN 12/28/07	SUSPENSE	ENGINEER WVJJ	LOGGED IN 1/2/08	TYPE IPI	APP NO. PKVR0800234525

ABOVE THIS LINE FOR DIVISION USE ONLY 291

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **OPERATOR/Applicant** Name: _____ OGRD: _____
(If one well) Lease/Well Name: _____
Well API No. 30-_____-_____

[2] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☑ IPI ☐ EOR ☐ PPR

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[3] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM
U.S. Bureau of Land Management

[E] ☐ Notification and/or Concurrent Approval by SLO
Commissioner of Public Lands, State Land Office

[F] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[G] ☐ Waivers are Attached

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name	Signature	Title	Date

e-mail Address

Jones, William V., EMNRD

From: Dean Brooks [dbrooks@tex-rex.com]
Sent: Friday, December 28, 2007 11:04 AM
To: Jones, William V., EMNRD
Cc: 'Robert Lee'
Subject: RE: Plains 29-1 SWD well - AD order SWD-1099
Attachments: Plains 29 #1 current 2 WBD.xls; Plains 29 #1 Step Rate Test Report 2-27-07 (2).txt; Plains 29-1 Step Rate Test BHP - 12-27-07.xls; Plains 29-1 Step Rate Test SP - 12-27-07.xls

Will,

I have attached results of a step rate test we ran yesterday on the Plains 29-1 SWD well (Inj Permit No. 1099) along with the new wellbore diagram. We utilized Precision Pressure Data, Inc. out of Midland along with a Cudd Energy Services pump truck to conduct the test. We ran a bottom hole pressure (BHP) sensor to 2165' on wireline and recorded BHP along with surface pressure. Based on the SRT, it appears the parting BHP of the San Andres in this well is 2148 psi. This was measured at a surface pressure of 1145 psi. The surface pressure neglecting tubing friction is estimated at 1029 psi. These pressures correlate to a rate of 1732 BWPD. Since our permit was for a maximum 700 BWPD and we don't want to have to run our injection pump more than 40% of the time, we are respectively requesting our maximum operating surface pressure be raised to 1000 psi. This would allow us to inject 700 BWPD below the formation parting pressure, with our pump operating approximately 10 hours per day.

If you have any questions or require additional information, please let me know. Thanks for all of your help in this matter.

Have a great day and a happy New Years.

Dean Brooks
Vice President - Engineering
TREX Operating, L C
3300 North A, Building 1-234
Midland, TX 79705
432-618-2202
432-238-5362

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Monday, December 17, 2007 2:59 PM
To: Dean Brooks
Cc: Ezeanyim, Richard, EMNRD
Subject: RE: Plains 29-1 SWD well - AD order SWD-1099

Hello Dean:
Thanks for the update.
With SRT results, send wellbore diagram with current perforations and tubing size and depth and current injection permit number and pressure.

Happy Holidays,

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

From: Dean Brooks [mailto:dbrooks@tex-rex.com]

Sent: Monday, December 17, 2007 9:34 AM
To: Jones, William V., EMNRD
Subject: Plains 29-1 SWD well - AD order SWD-1099

Will,

The proposed work on the subject well (Plains 29-1) in Race Track field has been completed. We stimulated the SA formation with 9000 gals 20% HCL after running our injection tbg and pkr. The acid job indicates a rate of 1 BPM @ 700 – 1000 psi. We displaced the last 6,000 gals of acid @ 4-5 BPM. Our pressure was 2000 psi. It appears that we will need to run a step rate test to determine our frac gradient prior to commencing injection operations. Our permitted maximum pressure is 442 psi. In order to dispose of the volumes we anticipate for this well (300 – 500 BWPD) we will need to operate at a pressure well above the permitted pressure. I am thinking that we will need to request something in the 1200 psi (.55 psi/ft gradient) range. As soon as we get the results of the step-rate test I will send them to you with a letter requesting a higher operating pressure.

If you have any questions please e-mail or call me.

Thanks Will. Have a great day!

Dean Brooks
Vice President – Engineering
Texas ReExploration Operating, LC

432-618-2202 off
432-238-5362

PLAINS "29" #1

CURRENT WELLBORE DIAGRAM

Texas ReExploration L. C.

Sec.Twp.Rng 29D, T-10-S, R-28-E

660' FWL & 660' FNL

API #: 30-005-60875

CO, ST: Chaves Co., New Mexico

STATUS: SWD

FORM	TOP

8 5/8" @ 330'
w/150 sx, circ

7" csg is bad below 1000'

7" TOC @ 1370'

2 3/8" tbg set @ 2143' w/AD-1 pkr

4 1/2" @ 2173' w/500 sx, circ

7" @ 2210' w/60 sx

TD 2226'

LOG ELEVATION:
GROUND ELEVATION: 3732.2'

CASING				TUBING
Hole	10"		6 1/4"	
Pipe	8 5/8"	7"	4 1/2"	2 3/8"
Weight	20#	20#		
Depth	330'	2210'	2273'	2143'

LOGS			
Density Log			

Spud Date: 3/21/1981
Comp. Date: 10/8/1981
6/10/1983 Deepened 6 1/4" hole from 2226-2266'
Acidized w/5000 gals 28% HCl & put on prod

NEW WORK

Set 4 1/2" csg @ 2173' w/500 sx
Set 2 3/8" tbg @ 2143' w/AD-1 pkr

T-REX OPERATING
PLAINS "29" #1
STEP RATE TEST
12/27/2007

BOTTOM HOLE PRESSURE DATA

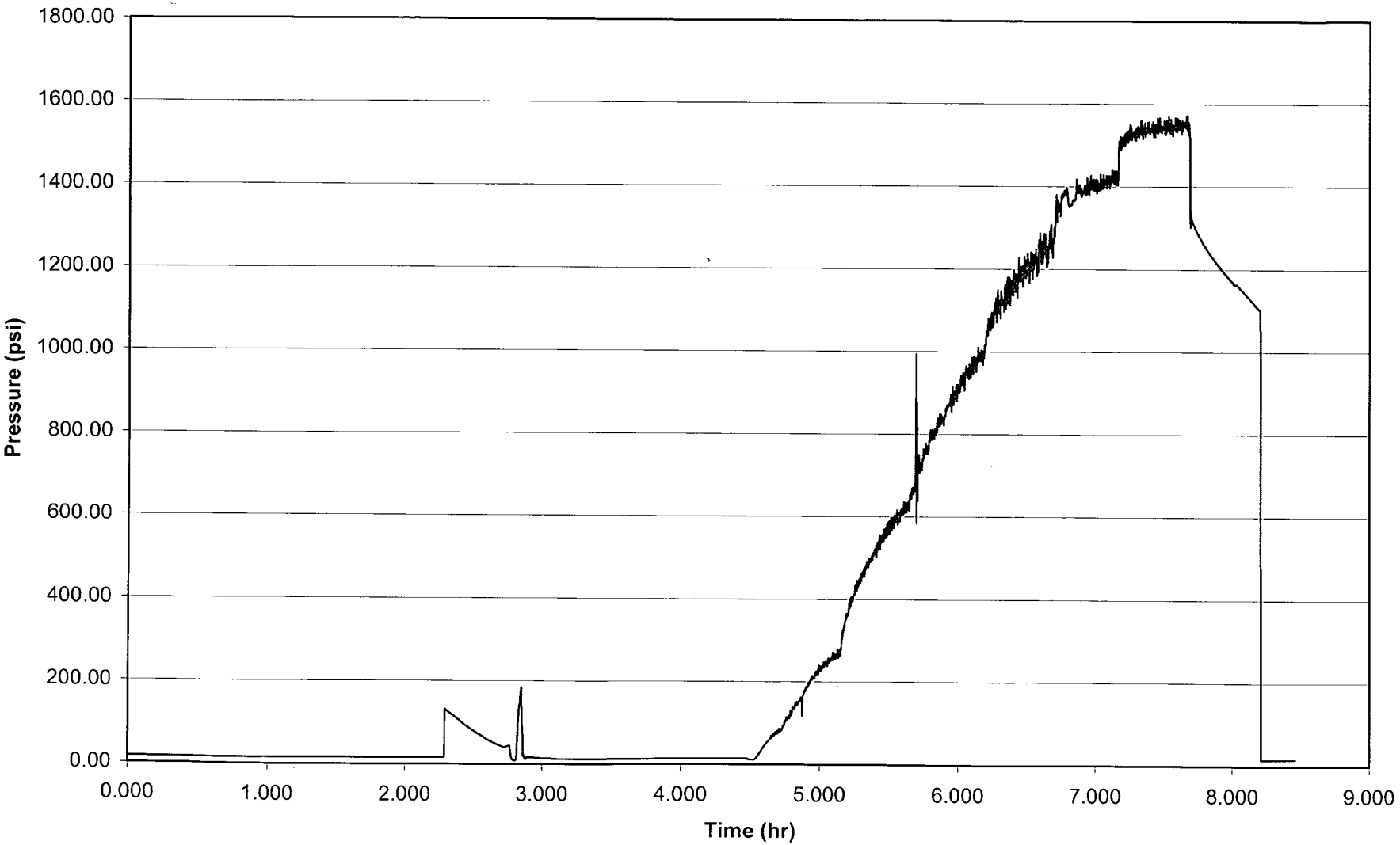
Line No.	Date/Time		Time	Pressure	Temperature	dPressure
	M/d/yyyy	HH:mm:ss	hr	psi	degF	psi
1	12/27/2007	08:50:56	0.005	10.78	53.80	0.00
2	12/27/2007	08:51:06	0.008	10.70	53.61	-0.08
3	12/27/2007	08:51:16	0.011	10.80	53.43	0.10
4	12/27/2007	08:51:26	0.014	10.72	53.25	-0.08
5	12/27/2007	08:51:36	0.016	10.72	53.06	0.00
6	12/27/2007	08:51:46	0.019	10.67	52.87	-0.05
7	12/27/2007	08:51:56	0.022	10.64	52.72	-0.03
8	12/27/2007	08:52:06	0.025	10.56	52.54	-0.08
9	12/27/2007	08:52:16	0.028	10.58	52.35	0.02
10	12/27/2007	08:52:26	0.030	10.63	52.18	0.05
11	12/27/2007	08:52:36	0.033	10.55	51.99	-0.08
12	12/27/2007	08:52:46	0.036	10.53	51.79	-0.02

T-REX OPERATING
PLAINS "29" #1
STEP RATE TEST
12/27/2007

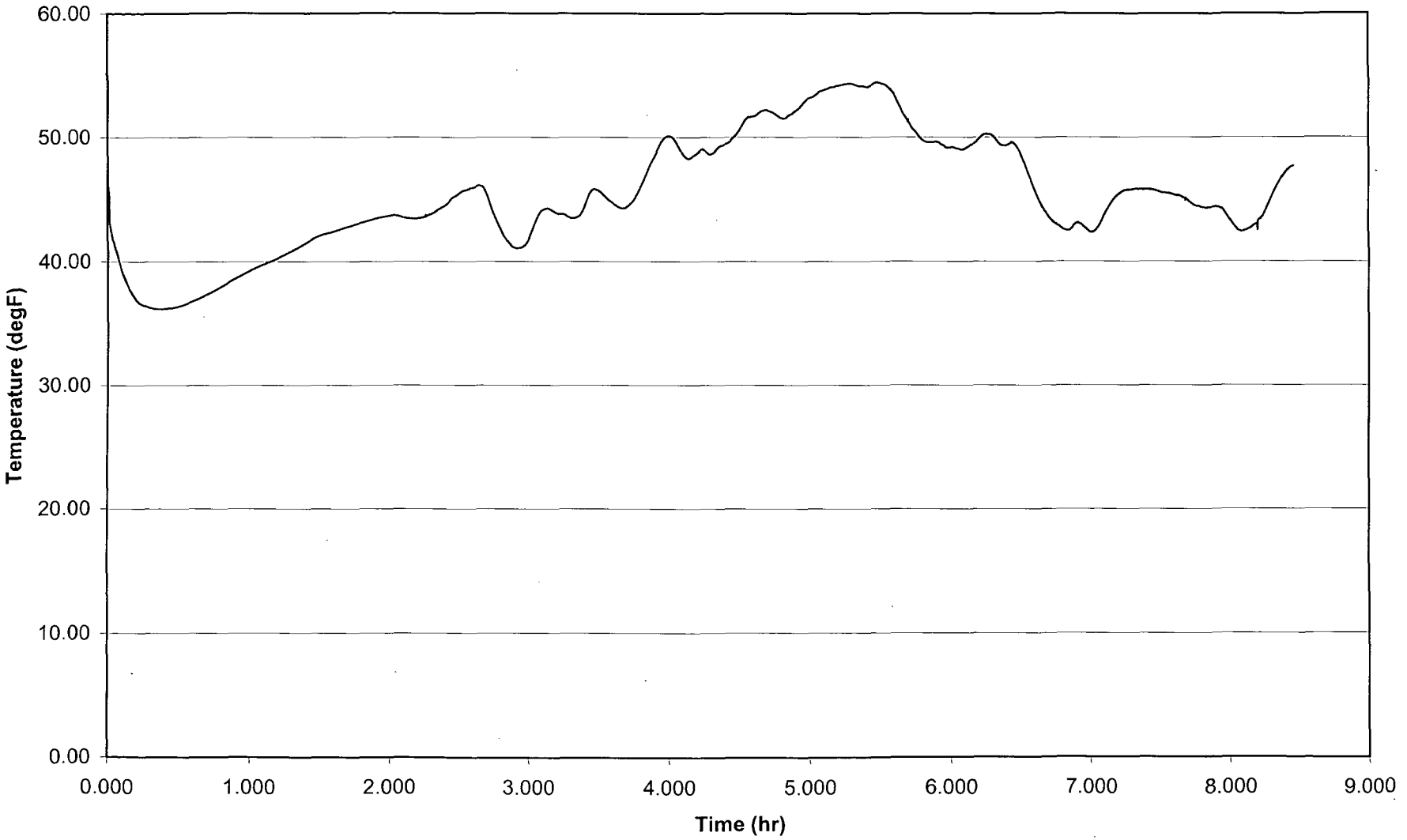
SURFACE PRESSURE DATA

Line No.	Date/Time		Time	Pressure	Temperature	dPressure
	M/d/yyyy	HH:mm:ss	hr	psi	degF	psi
1	12/27/2007	08:51:33	0.000	16.46	46.38	0.00
2	12/27/2007	08:51:52	0.005	16.42	45.85	-0.04
3	12/27/2007	08:52:00	0.008	16.39	45.73	-0.03
4	12/27/2007	08:52:05	0.009	16.37	45.59	-0.01
5	12/27/2007	08:52:13	0.011	16.37	45.43	0.00
6	12/27/2007	08:52:20	0.013	16.35	45.28	-0.01
7	12/27/2007	08:52:27	0.015	16.11	43.17	-0.24
8	12/27/2007	08:52:32	0.016	16.11	43.11	0.00
9	12/27/2007	08:52:37	0.018	16.10	43.01	-0.01
10	12/27/2007	08:52:42	0.019	16.05	42.95	-0.04
11	12/27/2007	08:52:47	0.021	16.06	42.89	0.01
12	12/27/2007	08:52:52	0.022	16.07	42.78	0.01
13	12/27/2007	08:53:02	0.025	16.05	42.60	-0.02
14	12/27/2007	08:53:12	0.028	16.04	42.44	-0.01
15	12/27/2007	08:53:22	0.030	16.01	42.30	-0.03
16	12/27/2007	08:53:32	0.033	16.01	42.13	0.00
17	12/27/2007	08:53:42	0.036	15.99	41.98	-0.02
18	12/27/2007	08:53:52	0.039	15.97	41.83	-0.02
19	12/27/2007	08:54:02	0.041	15.95	41.70	-0.02
20	12/27/2007	08:54:12	0.044	15.96	41.54	0.00
21	12/27/2007	08:54:22	0.047	15.96	41.41	0.01
22	12/27/2007	08:54:32	0.050	15.93	41.29	-0.03
23	12/27/2007	08:54:42	0.053	15.92	41.17	0.00

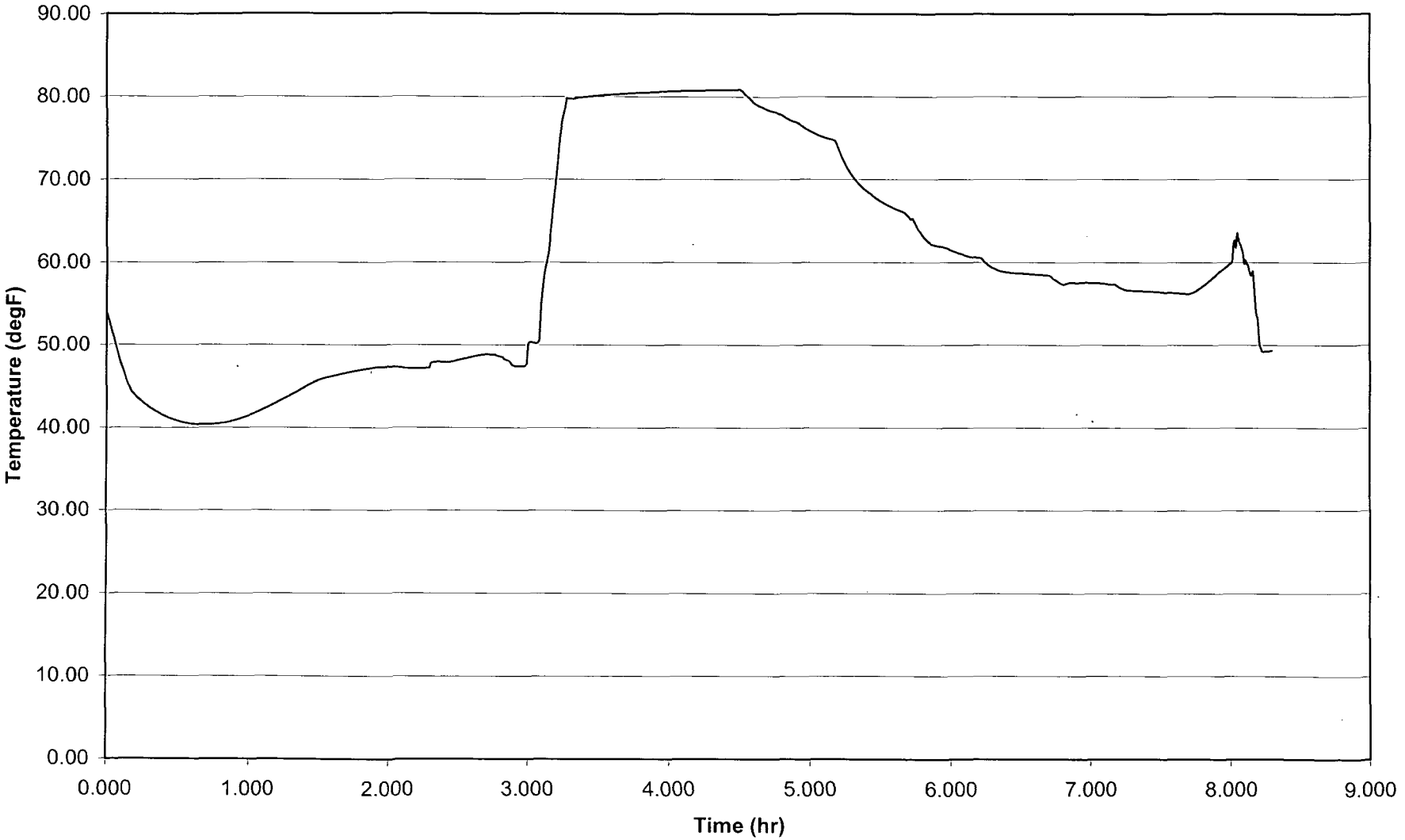
Pressure Graph



Temperature Graph



Temperature Graph



Pressure Graph