
GEOLOGICAL REPORT

for



PIONEER RESOURCES

No. 1 HULL
1120' FSL & 350' FEL
Section 9-8S-23W
Graham County, Kansas

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Todd E. Morgenstern
Petroleum Geologist
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P.O. Box 251
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9-85-23w

OPERATOR: Pioneer Resources

WELL: No. 1 Hull
API # 15-065-22944-00-00

LOCATION: 1120' FSL & 350' FEL
Section 9-8S231W
Graham County, Kansas

FIELD: Montgomery (Ext.)

CONTRACTOR: Shields Drilling, Inc.

DRILLING COMMENCED: 2-09-2004

DRILLING COMPLETED: 2-17-2004

DRILLING TIME: One (1) foot drilling time was recorded
from 3150' to 3780' RTD.

SAMPLES: Samples were saved and examined from 3150'
to 3780' RTD.

ELEVATIONS: 2240' Ground Level 2245' Kelly Bushing

MEASUREMENTS: All depths are measured from **2245' K.B.**

CASING RECORD: 8 5/8" Surface Casing set @ 206' with 105 sxs. 60/40 poz
5 1/2" Production Casing set @ 3768' with 150 sxs. ASC

FORMATION TESTING: Three (3) tests were run by Trilobite Testing, Inc.
Jason McLemore, Tester

MUD: Mud-Co., Inc. (Chemical Mud)

OPEN HOLE LOGS: Log Tech (CND/CNL, DIL, MEL, SONIC)
Butch Dryle, Engineer

PRODUCTION: Oil

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FORMATION TOPS:

FORMATION	SAMPLE	LOG	DATUM
ANHYDRITE	1898'	1897'	+ 348'
BASE ANHYDRITE	1930'	1929'	+ 316'
TOPEKA	3271'	3272'	-1027'
HEEBNER	3476'	3479'	-1234'
TORONTO	3502'	3504'	-1259'
LANSING	3519'	3519'	-1274'
BASE KANSAS CITY	3727'	3728'	-1483'
ROTARY TOTAL DEPTH	3780'	*****	-1535'
ROTARY TOTAL DEPTH	*****	3783'	-1538'

SAMPLE DESCRIPTIONS AND TEST DATA:

TOPEKA:

3302-3309 Limestone, white and gray, finely crystalline, slightly fossiliferous, dense, no shows of oil were noted.

3432-3438 Limestone, gray and white, finely crystalline, chalky, with white chert, oolitic in part, no shows of oil were noted.

TORONTO:

3504-3514 Limestone, white and tan, dense, finely crystalline, chalky, with abundant white chert, no shows of oil were noted.

LANSING:

3520-3525 Limestone, white and gray, fine to medium crystalline, oolitic and fossiliferous, with fair to good visible interfossiliferous porosity, slightly chalky, no shows of oil were noted.

3552-3558

Limestone, tan and cream, very dense, finely crystalline, cherty, with fractured porosity, very slight show of free oil, slight spotted staining, no odor. (Covered by D.S.T. No. 1)

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No. 1 Hall
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FORMATION TEST NO. 1			
Lansing-Kansas City (35') Tested from 3536' - 3560'			
<i>Weak blow dying in 20 min</i>	30 min.	I.H.P.	1736#
<i>No blow-back</i>	30 min.	I.F.P.	28# -30#
<i>No blow</i>	30 min.	<u>I.S.I.P.</u>	<u>501#</u>
<i>No blow back</i>	30 min.	F.F.P.	30# -30#
		<u>F.S.I.P.</u>	<u>306#</u>
		F.H.P.	<u>1681#</u>
RECOVERY:	10' Mud w/ show of oil		
TEMPERATURE:	96*		
CHLORIDES:	N/A p.p.m. (Recovery), 3,000 p.p.m. (System)		

3563-3568 Limestone, white and gray, finely crystalline, oolitic and slightly fossiliferous, with poor to fair visible interparticle porosity, fair spotted staining, very slight show of free oil on break, no odor. (Covered by D.S.T. No. 2)

3586-3590 Limestone, white and gray, finely crystalline, oolitic and slightly fossiliferous, with fair to good visible interoolitic porosity, fair spotted staining, very slight show of free oil on break, no odor. (Covered by D.S.T. No. 2)

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FORMATION TEST NO. 2			
Lansing -Kansas City (50'-90') Tested from 3557' - 3600'			
<i>B.O.B. in 8 min.</i>	45 min.	I.H.P.	1761#
<i>No blow-back</i>	45 min.	I.F.P.	21# -187#
<i>B.O.B. in 15 min</i>	45 min.	<u>I.S.I.P.</u>	<u>677#</u>
<i>No blow-back</i>	45 min.	F.F.P.	198# -244#
		<u>F.S.I.P.</u>	<u>649#</u>
		F.H.P.	1718#
RECOVERY:	120' Gas in Pipe 450' Frothy Mud Cut Oil <u>150' Frothy Oil cut Water</u> 600' Total Liquid Recovery		
TEMPERATURE:	106*		
CHLORIDES:	38,000 p.p.m. (Recovery), 7,000 p.p.m. (System)		

3646-3653 Limestone, white, finely crystalline, dense, chalky, slightly oolitic, with poor visible porosity, no shows of oil were noted.

3669-3674 Limestone, white and gray, finely crystalline, chalky, dense, slightly fossiliferous, with poor visible porosity, abundant dead oil staining, slightly cherty, no live oil staining, no show of free oil, no odor. (Covered by D.S.T. No. 3)

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3686-3690 Limestone, white and gray, very finely crystalline, dense, chalky, slightly oolitic, with rare pinhole porosity, mostly tight, fair staining, very slight show of free oil on break, no odor. (Covered by D.S.T. No. 3)

FORMATION TEST NO. 3			
Lansing -Kansas City (I & J)			
Tested from 3652' - 3690'			
<i>Weak 1/4" blow dying in 37min</i>	30 min.	I.H.P.	1817#
<i>No blow-back</i>	30 min.	I.F.P.	13# -14#
<i>No blow</i>	30 min.	<u>I.S.I.P.</u>	<u>22#</u>
<i>No blow-back</i>	30 min.	F.F.P.	13# -14#
		<u>F.S.I.P.</u>	<u>21#</u>
		F.H.P.	<u>1772#</u>
RECOVERY:	1' Drilling Mud		
TEMPERATURE:	102*		
CHLORIDES:	N/A p.p.m. (Recovery), 7,000 p.p.m. (System)		

3706-3712 Limestone, white and gray, dense, finely crystalline, oolitic, chalky, with trace of scattered staining, no show of free oil, no odor.

3719-3727 Limestone, gray and tan, dense, very finely crystalline, chalky, fossiliferous in part, no visible porosity, no shows of oil were noted.

STRUCTURAL COMPARISION:

	Pioneer Resources No. 1 Hull 1120' FSL, 350' FEL Sec. 9-8S-23W Oil	Raymond Oil Co. No. 1 Jones C-NW-SW Sec. 10-8S-23W D&A	Montgomery Drilling No. 1 Ross SE-NW-SE Sec. 9-8S-23W D&A
ANHYDRITE	+ 348'	+ 350'	+ 350'
TOPEKA	-1027'	-1031'	-1026'
HEEBNER	-1234'	-1237'	-1237'
TORONTO	-1259'	-1261'	-1260'
LANSING	-1274'	-1279'	-1278'
BASE KANSAS CITY	-1483'	-1485'	N/A

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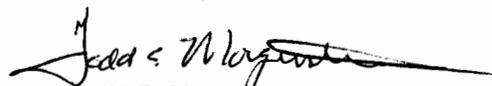
SUMMARY:

The No. 1 Hull was under geological supervision from 3150' to 3780' RTD. With the positive results of drill stem test No. 2, it was decided to run 5 1/2" production casing and complete this well through perforations.

Recommended Perforations

- 3586'-3588'
- 3564'-3566'
- 3554'-3556' (Prior to abandonment)

Respectfully submitted,


Todd E. Morgenstern

No. 1 Hull
9-8s-23w-Graham

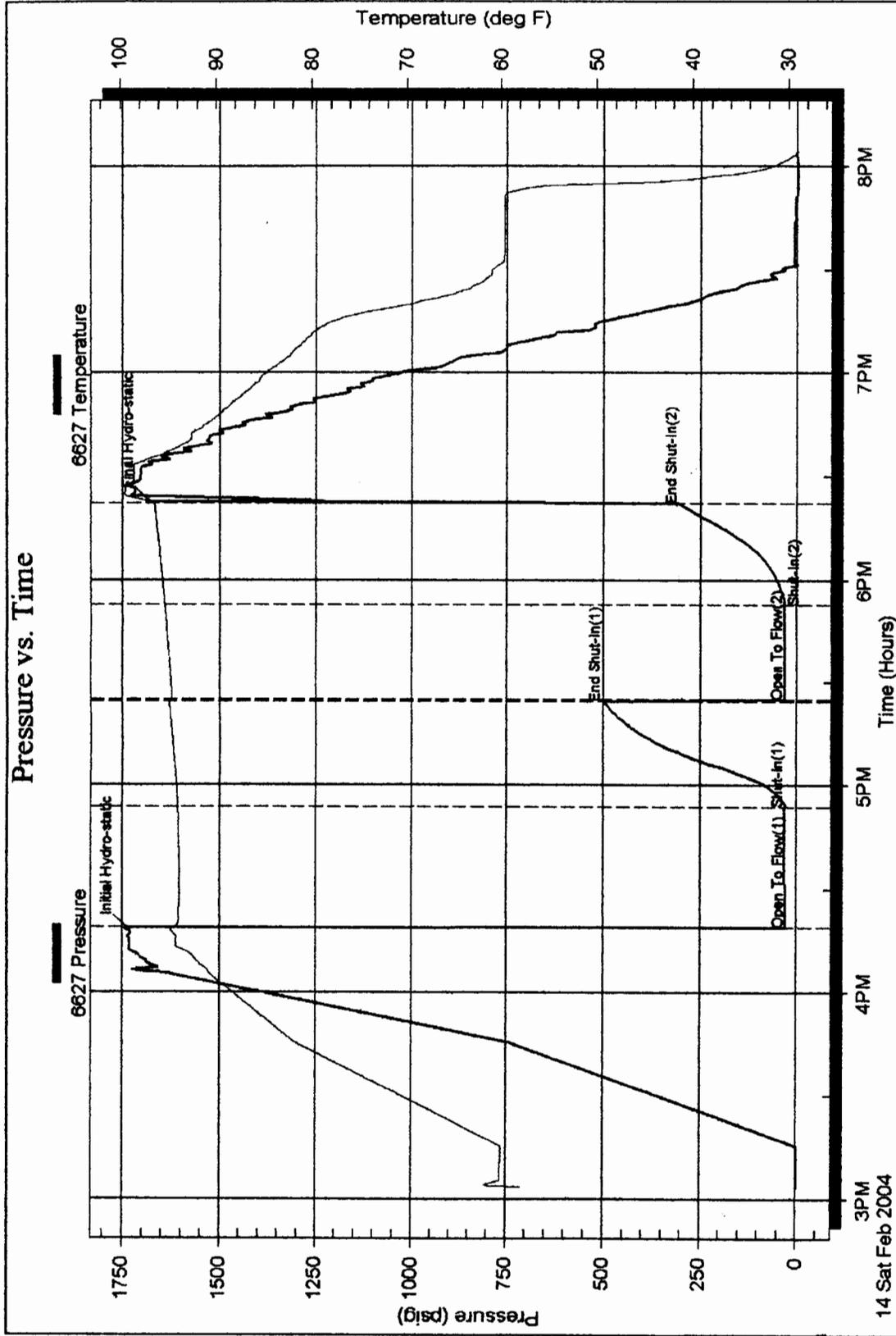
DST Test Number: 1

Serial #: 6627

Inside

Pioneer Resources

Pressure vs. Time



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No. 1411

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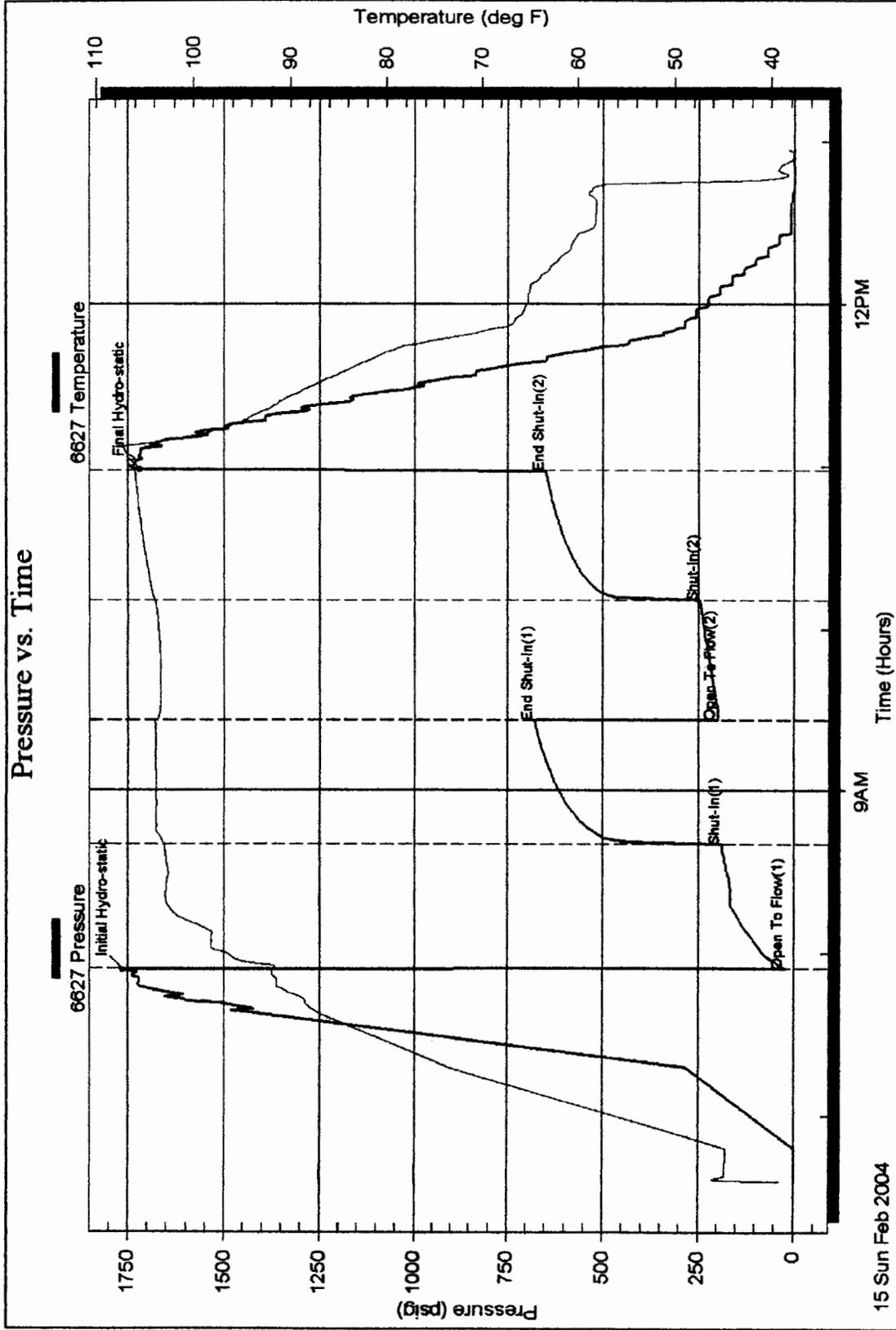
Pioneer Resources

Inside

Serial #: 6627

DST Test Number: 2

Pressure vs. Time



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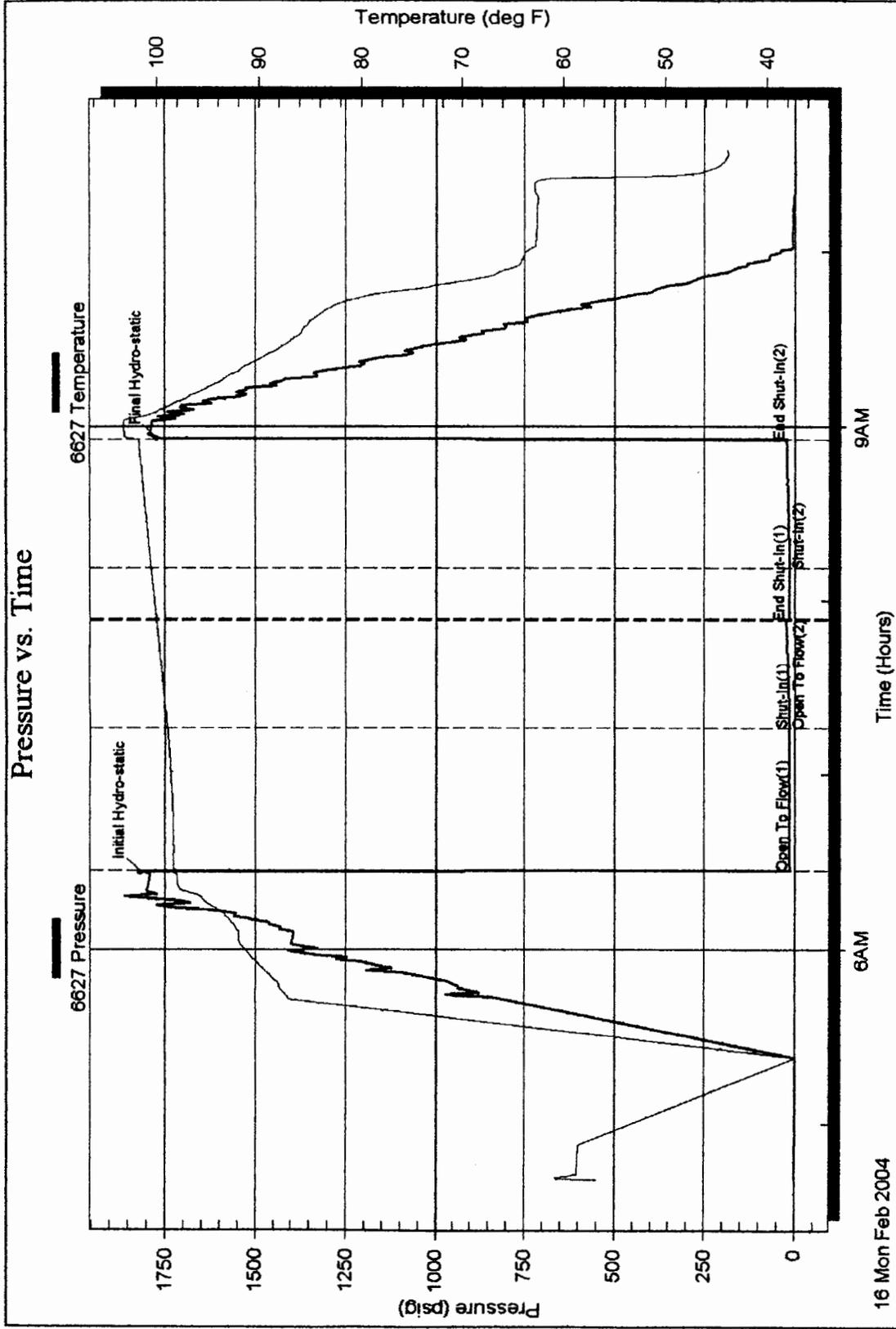
DST Test Number: 3

Serial #: 6627

Inside

Pioneer Resources

Pressure vs. Time



16 Mon Feb 2004

6AM

9AM

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