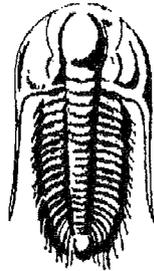


15-165-21843

27-16s-16w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1560 Broadway
Suite 2100
Denver, CO 80202

ATTN: Justin Carter

27 16s 16w Rush KS

JME Farms #1-27

Start Date: 2008.12.01 @ 18:18:55

End Date: 2008.12.02 @ 01:43:25

Job Ticket #: 34716 DST #: 1

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Sam Gary

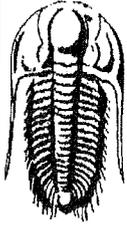
JME Farms #1-27

27 16s 16w Rush KS

DST # 1

LKC "H-J"

2008.12.01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary
 1560 Broadway
 Suite 2100
 Denver, CO 80202
 ATTN: Justin Carter

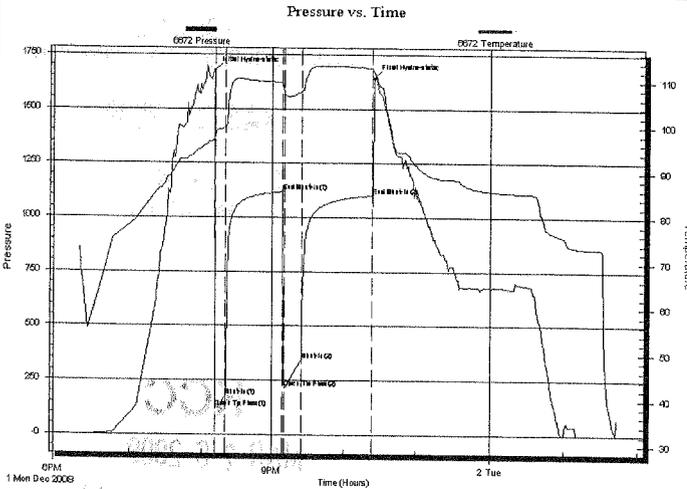
JME Farms #1-27
27 16s 16w Rush KS
 Job Ticket: 34716 **DST#: 1**
 Test Start: 2008.12.01 @ 18:18:55

GENERAL INFORMATION:

Formation: **LKC "H-I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:11:10
 Time Test Ended: 01:43:25
 Interval: **3388.00 ft (KB) To 3430.00 ft (KB) (TVD)**
 Total Depth: 3430.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Tyson Flax
 Unit No: 44
 Reference Elevations: 1972.00 ft (KB)
 1964.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6672 Inside
 Press@RunDepth: 343.56 psig @ 3392.00 ft (KB)
 Start Date: 2008.12.01 End Date: 2008.12.02
 Start Time: 18:18:56 End Time: 01:43:25
 Capacity: 7000.00 psig
 Last Calib.: 2008.12.02
 Time On Btm: 2008.12.01 @ 20:10:40
 Time Off Btm: 2008.12.01 @ 22:24:55

TEST COMMENT: IFP-BOB in 30 sec
 ISF-BOB in 3 min GTS in 40 min
 FFP-BOB in 5 sec
 FSI-BOB in 3 min



PRESSURE SUMMARY

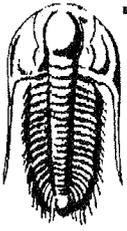
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.98	97.54	Initial Hydro-static
1	125.01	97.65	Open To Flow (1)
10	174.33	99.91	Shut-In(1)
58	1118.27	109.70	End Shut-In(1)
60	215.45	107.20	Open To Flow (2)
74	343.56	107.66	Shut-In(2)
134	1102.00	112.84	End Shut-In(2)
135	1644.11	112.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1380.00	GO 40%G,60%O	19.56
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	12.00	41.88



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary
1560 Broadway
Suite 2100
Denver, CO 80202
ATTN: Justin Carter

JME Farms #1-27
27 16s 16w Rush KS
Job Ticket: 34716 **DST#: 1**
Test Start: 2008.12.01 @ 18:18:55

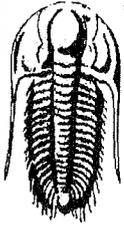
Tool Information

Drill Pipe:	Length: 3364.00 ft	Diameter: 3.82 inches	Volume: 47.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3388.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3365.00	
Change Over Sub	1.00			3366.00	
Hydraulic tool	5.00			3371.00	
Jars	5.00			3376.00	
Safety Joint	2.00			3378.00	
Packer	5.00			3383.00	28.00 Bottom Of Top Packer
Packer	5.00			3388.00	
Stubb	1.00			3389.00	
Perforations	2.00			3391.00	
Change Over Sub	1.00			3392.00	
Recorder	0.00	6672	Inside	3392.00	
Recorder	0.00	6669	Inside	3392.00	
Blank Spacing	31.00			3423.00	
Change Over Sub	1.00			3424.00	
Perforations	3.00			3427.00	
Bullnose	3.00			3430.00	42.00 Bottom Packers & Anchor
Total Tool Length:	70.00				

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary
1560 Broadway
Suite 2100
Denver, CO 80202
ATTN: Justin Carter

JME Farms #1-27
27 16s 16w Rush KS
Job Ticket: 34716 **DST#: 1**
Test Start: 2008.12.01 @ 18:18:55

Mud and Cushion Information

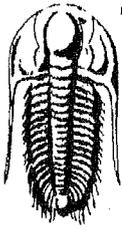
Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6900.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1380.00	GO 40%G,60%O	19.562
0.00	GTS	0.000

Total Length: 1380.00 ft Total Volume: 19.562 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Sam Gary
1560 Broadway
Suite 2100
Denver, CO 80202
ATTN: Justin Carter

JME Farms #1-27
27 16s 16w Rush KS
Job Ticket: 34716 **DST#: 1**
Test Start: 2008.12.01 @ 18:18:55

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	12.00	41.88

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WICHITA, KS

Serial #: 6672

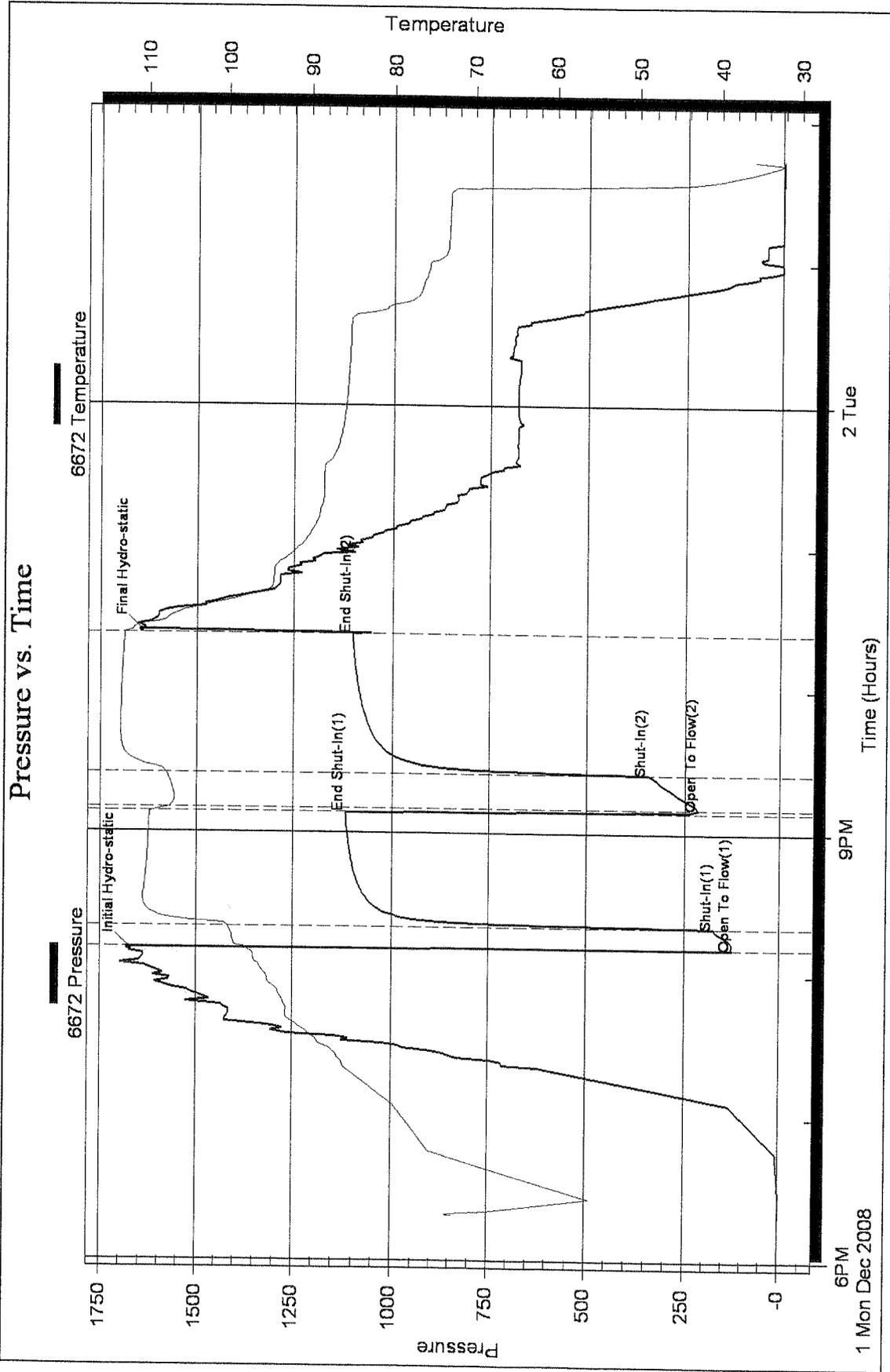
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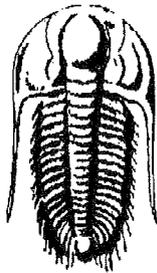
Sam Gary

27 16s 16w Rush KS

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Sam Gary**

1560 Broadway
Suite 2100
Denver, CO 80202

ATTN: Justin Carter

27 16s 16w Rush KS

JME Farms #1-27

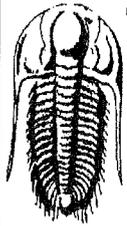
Start Date: 2008.12.02 @ 13:55:36

End Date: 2008.12.02 @ 20:55:51

Job Ticket #: 34717 DST #: 2

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CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary
1560 Broadway
Suite 2100
Denver, CO 80202
ATTN: Justin Carter

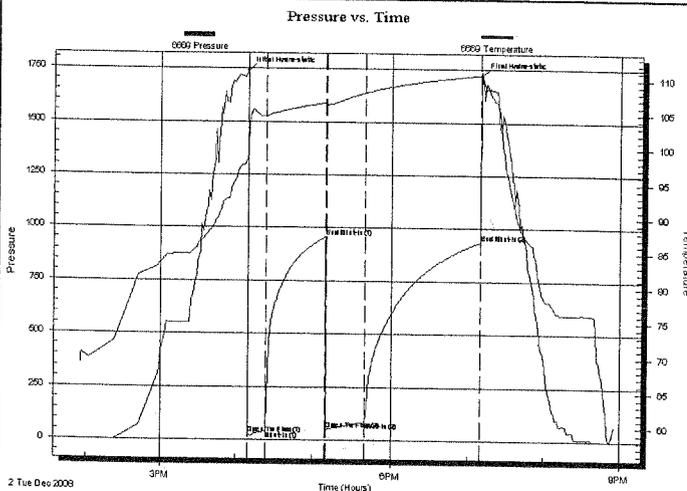
JME Farms #1-27
27 16s 16w Rush KS
Job Ticket: 34717 **DST#: 2**
Test Start: 2008.12.02 @ 13:55:36

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:09:51
Time Test Ended: 20:55:51
Interval: **3544.00 ft (KB) To 3554.00 ft (KB) (TVD)**
Total Depth: 3554.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 44
Reference Elevations: 1972.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6669 Inside
Press@RunDepth: 85.74 psig @ 3547.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.12.02 End Date: 2008.12.02 Last Calib.: 2008.12.02
Start Time: 13:55:37 End Time: 20:55:51 Time On Btm: 2008.12.02 @ 16:09:36
Time Off Btm: 2008.12.02 @ 19:10:36

TEST COMMENT: IFP-BOB in 10 min
ISI-Weak surface blow back died in 10 min
FFP-BOB in 9 min
FSI-Weak surface blow back died in 10 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1737.63	99.22	Initial Hydro-static
1	25.80	99.60	Open To Flow (1)
15	42.52	104.55	Shut-In(1)
60	956.85	106.53	End Shut-In(1)
61	48.98	106.30	Open To Flow(2)
91	85.74	108.00	Shut-In(2)
181	935.29	110.56	End Shut-In(2)
181	1718.43	111.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MCWO 70%O,15%W,15%M	0.43
60.00	MCO 80%O,20%M	0.85
90.00	CO	1.28
0.00	420' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary
1560 Broadway
Suite 2100
Denver, CO 80202
ATTN: Justin Carter

JME Farms #1-27
27 16s 16w Rush KS
Job Ticket: 34717 **DST#: 2**
Test Start: 2008.12.02 @ 13:55:36

Tool Information

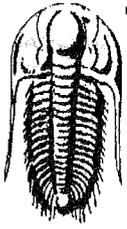
Drill Pipe:	Length: 3521.00 ft	Diameter: 3.82 inches	Volume: 49.91 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3544.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3520.00	
Change Over Sub	1.00			3521.00	
Hydraulic tool	5.00			3526.00	
Jars	5.00			3531.00	
Safety Joint	3.00			3534.00	
Packer	5.00			3539.00	29.00 Bottom Of Top Packer
Packer	5.00			3544.00	
Stubb	1.00			3545.00	
Perforations	2.00			3547.00	
Recorder	0.00	6669	Inside	3547.00	
Recorder	0.00	6672	Inside	3547.00	
Perforations	4.00			3551.00	
Bullnose	3.00			3554.00	10.00 Bottom Packers & Anchor

Total Tool Length: 39.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary
1560 Broadway
Suite 2100
Denver, CO 80202
ATTN: Justin Carter

JME Farms #1-27
27 16s 16w Rush KS
Job Ticket: 34717 DST#: 2
Test Start: 2008.12.02 @ 13:55:36

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 43.00 sec/qt	ft		
Water Loss: 9.59 in ³	Cushion Volume:		
Resistivity: ohm.m	Gas Cushion Type:		
Salinity: 6900.00 ppm	Gas Cushion Pressure:		
Filter Cake: inches	psig		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MCWO 70%O,15%W,15%M	0.425
60.00	MCO 80%O,20%M	0.851
90.00	CO	1.276
0.00	420' GIP	0.000

Total Length: 180.00 ft Total Volume: 2.552 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6669

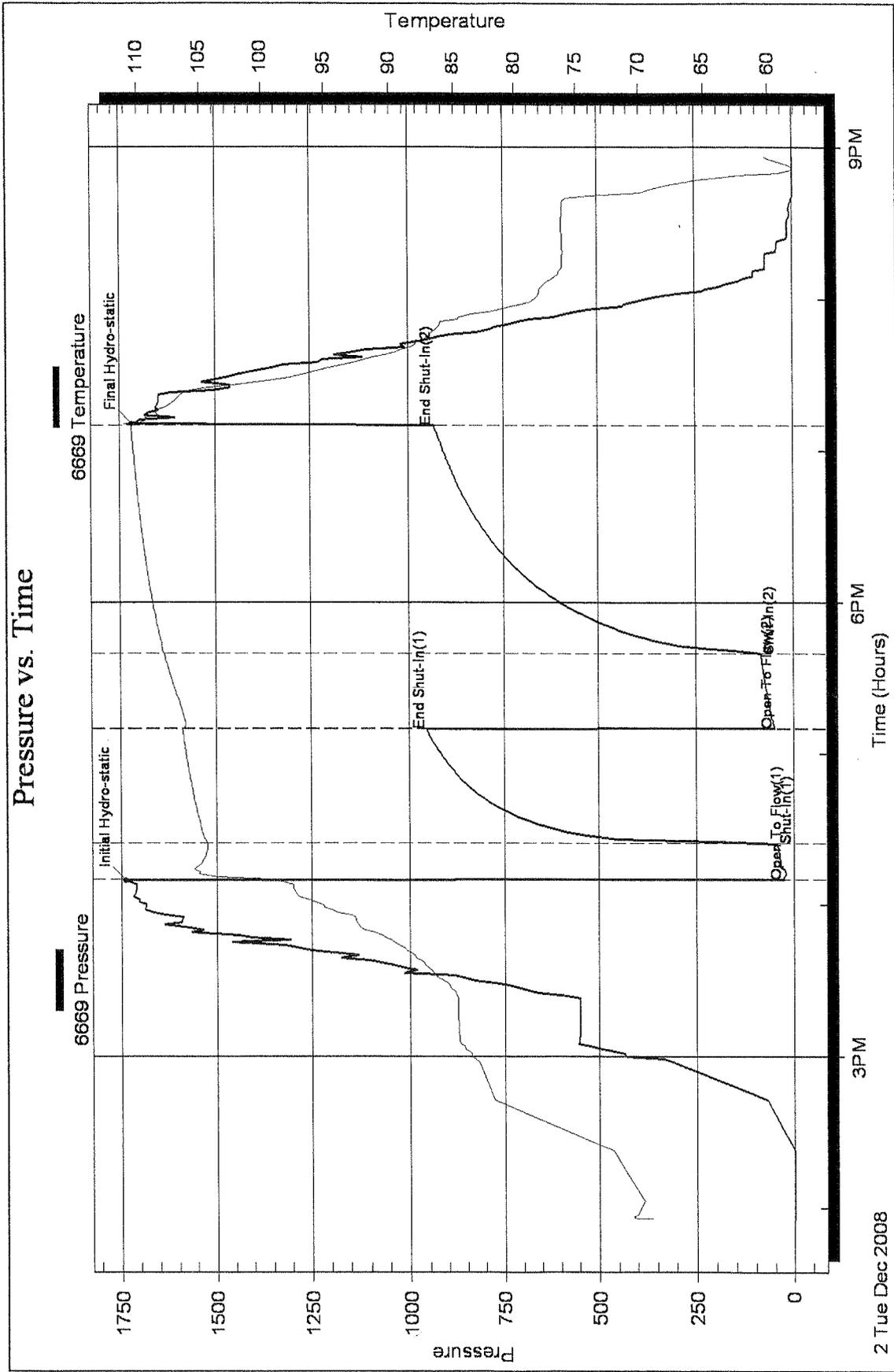
Inside

Sam Gary

27 16s 16w Rush KS

DST Test Number: 2

Pressure vs. Time



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WICHITA, KS

Ref. No: 34717

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