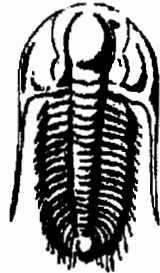


15-051-25933

13-15s-17w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1515 Wynkoop Ste 700
Denver, CO
80202

ATTN: Tom Fertal

13 15S 17W Ellis KS

Vonfeldt 1-13

Start Date: 2009.11.29 @ 06:21:46

End Date: 2009.11.29 @ 14:10:40

Job Ticket #: 36615 DST #: 1

**KCC
MAR 15 2010
CONFIDENTIAL**

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 17 2010

CONSERVATION DIVISION
WICHITA, KS

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

Samuel Gary Jr & Associates

Vonfeldt 1-13

13 15S 17W Ellis KS

DST # 1

LKC "F"

2009.11.29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

1515 Wynkoop Ste 700
Denver, CO
80202
ATTN: Tom Fertal

Vonfeldt 1-13

13 15S 17W Ellis KS

Job Ticket: 36615

DST#: 1

Test Start: 2009.11.29 @ 06:21:46

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 08:04:11

Time Test Ended: 14:10:40

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3296.00 ft (KB) To 3327.00 ft (KB) (TVD)**

Total Depth: **3327.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **1954.00 ft (KB)**

1947.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 8371 **Inside**

Press@RunDepth: **55.26 psig @ 3299.00 ft (KB)**

Start Date: **2009.11.29**

End Date: **2009.11.29**

Capacity: **8000.00 psig**

Last Calib.: **2009.11.29**

Start Time: **06:21:46**

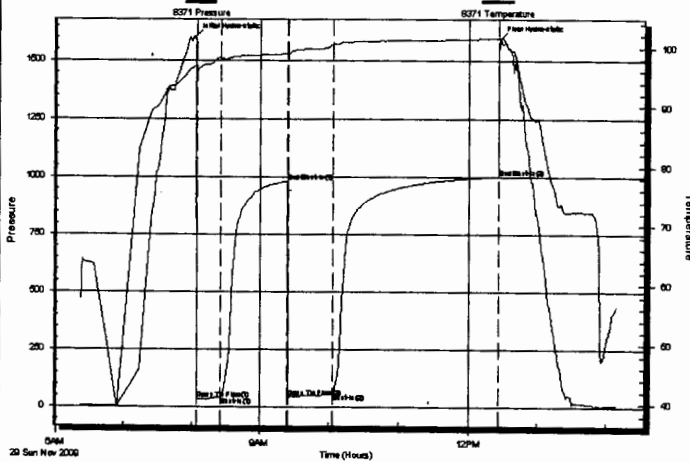
End Time: **14:10:40**

Time On Btm: **2009.11.29 @ 08:02:11**

Time Off Btm: **2009.11.29 @ 12:26:40**

TEST COMMENT: IFP - BOB 15 min.
ISI - no blow back
FFP - BOB 5 min.
FSI - stg. sur blow back- died 17 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.54	96.80	Initial Hydro-static
2	30.35	96.31	Open To Flow (1)
23	40.88	98.16	Shut-In(1)
82	979.06	98.93	End Shut-In(1)
83	42.60	98.95	Open To Flow (2)
122	55.26	100.48	Shut-In(2)
264	1000.14	101.53	End Shut-In(2)
265	1595.09	101.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GWOOM 15%G, 15%O, 10%W, 60%M	0.63
15.00	GWHOCM 30%G, 40%O, 10%W, 20%M	0.21
30.00	GSOCM 40%G, 10%O, 50%M	0.42
0.00	155' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

Vonfeldt 1-13

1515 Wynkoop Ste 700
Denver, CO
80202
ATTN: Tom Fertal

13 15S 17W Ellis KS
Job Ticket: 36615 DST#: 1
Test Start: 2009.11.29 @ 06:21:46

Tool Information

Drill Pipe:	Length: 3292.00 ft	Diameter: 3.80 inches	Volume: 46.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3296.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	58.00 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			3274.00	
Hydraulic tool	5.00			3279.00	
Jars	5.00			3284.00	
Safety Joint	2.00			3286.00	
Packer	5.00			3291.00	27.00 Bottom Of Top Packer
Packer	5.00			3296.00	
Stubb	1.00			3297.00	
Perforations	2.00			3299.00	
Recorder	0.00	8018	Inside	3299.00	
Recorder	0.00	8371	Inside	3299.00	
Perforations	25.00			3324.00	
Bullnose	3.00			3327.00	31.00 Bottom Packers & Anchor

Total Tool Length: 58.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

Vonfeldt 1-13

1515 Wynkoop Ste 700
Denver, CO
80202

13 15S 17W Ellis KS

ATTN: Tom Fertal

Job Ticket: 36615

DST#: 1

Test Start: 2009.11.29 @ 06:21:46

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 9.96 in³
Resistivity: ohm.m
Salinity: 5400.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 26000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GWOCM 15%G, 15%O, 10%W, 60%M	0.631
15.00	GWHOCM 30%G, 40%O, 10%W, 20%M	0.210
30.00	GSOCM 40%G, 10%O, 50%M	0.421
0.00	155' GIP	0.000

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW .332 @ 56F = 26000 chlorides

Serial #: 8371

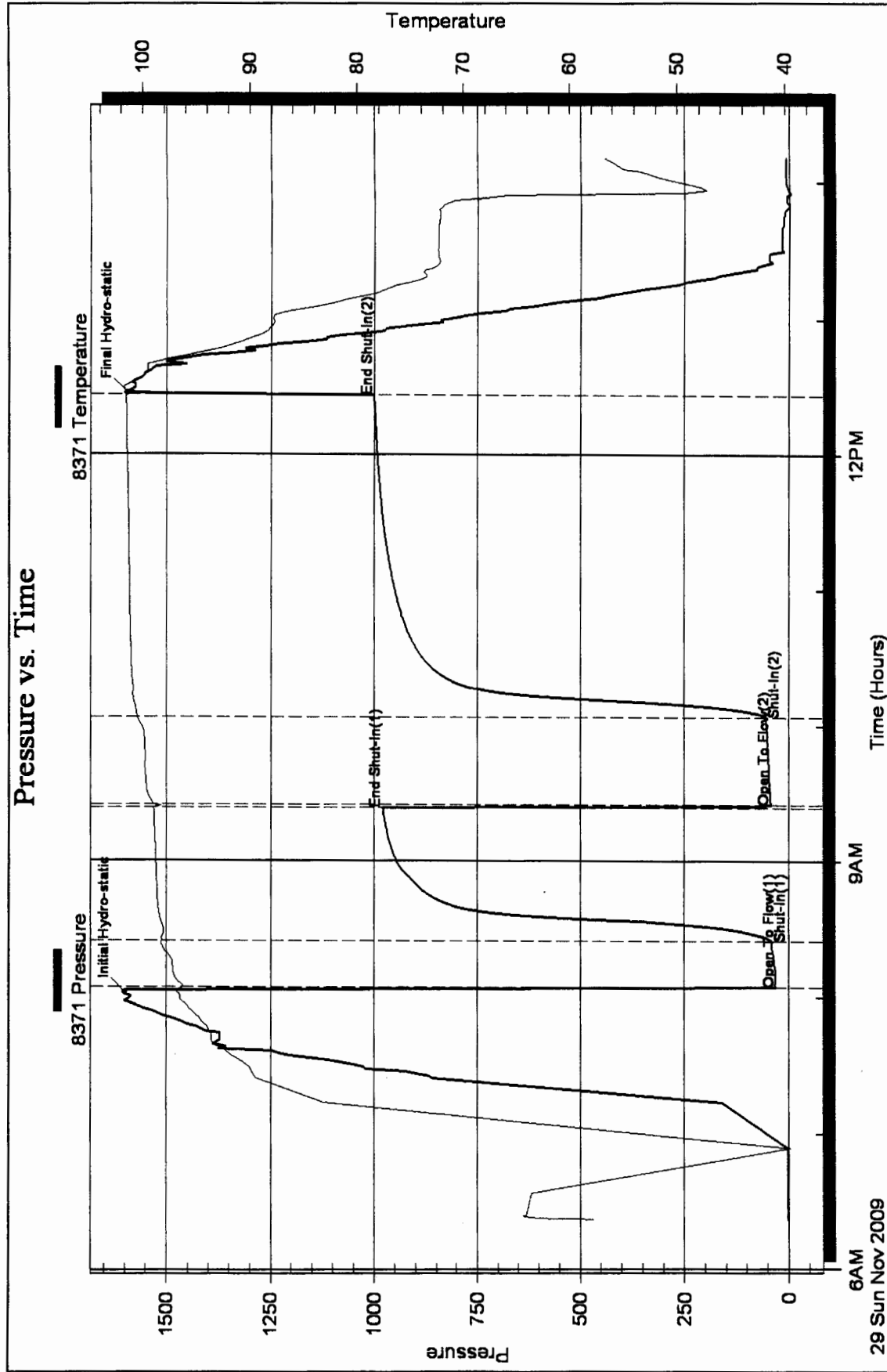
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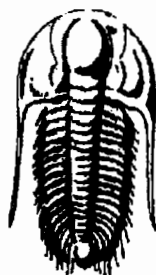
Samuel Gary Jr & Associates

13 15S 17W Ellis KS

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1515 Wynkoop Ste 700
Denver, CO
80202

ATTN: Tom Fertal

13 15S 17W Ellis KS

Vonfeldt 1-13

Start Date: 2009.11.30 @ 14:30:15

End Date: 2009.11.30 @ 21:59:15

Job Ticket #: 36616 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

Vonfeldt 1-13

1515 Wynkoop Ste 700
Denver, CO
80202

13 15S 17W Ellis KS

Job Ticket: 36616

DST#: 2

ATTN: Tom Fertal

Test Start: 2009.11.30 @ 14:30:15

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:02:15

Time Test Ended: 21:59:15

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 41

Interval: **3507.00 ft (KB) To 3520.00 ft (KB) (TVD)**

Reference Elevations: 1954.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

1947.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 7.00 ft

Serial #: 8371 Inside

Press@RunDepth: 72.04 psig @ 3508.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2009.11.30

End Date: 2009.11.30

Last Calib.: 2009.11.30

Start Time: 14:30:20

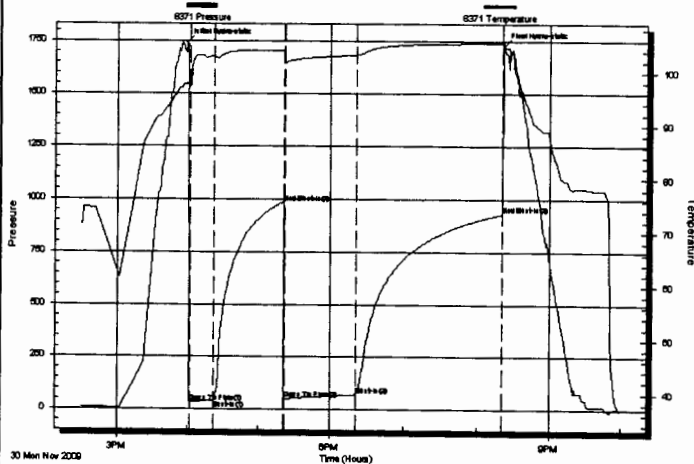
End Time: 21:59:14

Time On Btm: 2009.11.30 @ 15:59:15

Time Off Btm: 2009.11.30 @ 20:21:14

TEST COMMENT: IF-6.5in blow
IS-no blow
FF-BOB in 46min
FSI-no blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1743.75	98.02	Initial Hydro-static
3	34.89	97.66	Open To Flow (1)
23	44.19	103.16	Shut-In(1)
82	982.52	104.09	End Shut-In(1)
83	51.38	101.88	Open To Flow(2)
142	72.04	103.33	Shut-In(2)
261	929.22	105.49	End Shut-In(2)
262	1730.08	105.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	Free Oil 5%G 95%O	1.33
30.00	MCO 60%) 40%M	0.42
0.00	55ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

Vonfeldt 1-13

1515 Wynkoop Ste 700
Denver, CO
80202
ATTN: Tom Fertal

13 15S 17W Ellis KS

Job Ticket: 36616

DST#: 2

Test Start: 2009.11.30 @ 14:30:15

Tool Information

Drill Pipe:	Length: 3482.00 ft	Diameter: 3.80 inches	Volume: 48.84 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 48.84 bbl	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3507.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3485.00	
Hydraulic tool	5.00			3490.00	
Jars	5.00			3495.00	
Safety Joint	2.00			3497.00	
Packer	5.00			3502.00	27.00 Bottom Of Top Packer
Packer	5.00			3507.00	
Stubb	1.00			3508.00	
Recorder	0.00	8018	inside	3508.00	
Recorder	0.00	8371	inside	3508.00	
Perforations	9.00			3517.00	
Bullnose	3.00			3520.00	13.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

Vonfeldt 1-13

1515 Wynkoop Ste 700
Denver, CO
80202

13 15S 17W Ellis KS

Job Ticket: 36616

DST#: 2

ATTN: Tom Fertal

Test Start: 2009.11.30 @ 14:30:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 9.95 in³

Resistivity: ohm.m

Salinity: 5600.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

27 deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	Free Oil 5%G 95%O	1.333
30.00	MCO 60%) 40%M	0.421
0.00	55ft GIP	0.000

Total Length: 125.00 ft

Total Volume: 1.754 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8371

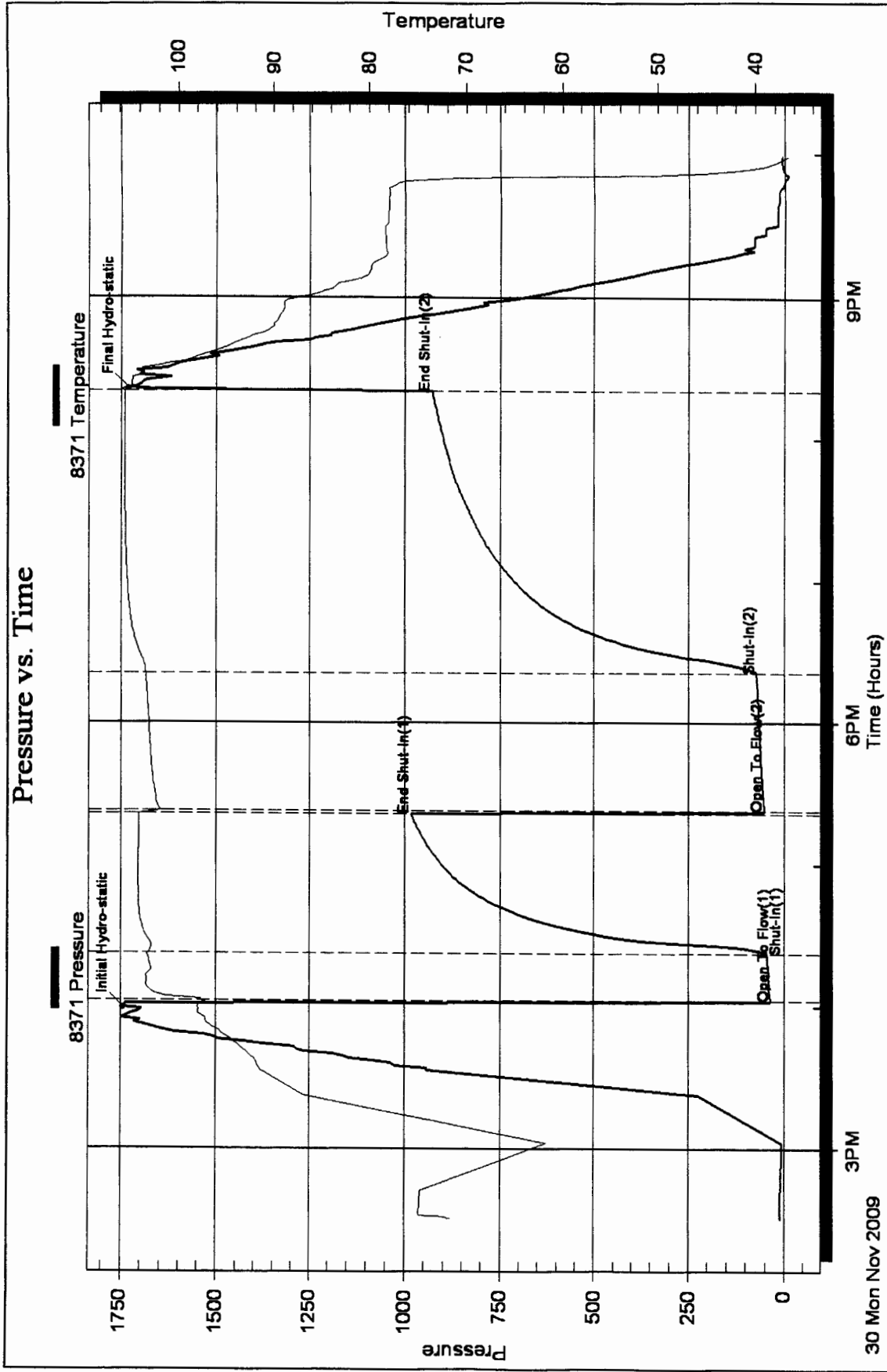
Inside

Samuel Gary Jr & Associates

13 15S 17W Ellis KS

DST Test Number: 2

Pressure vs. Time



30 Mon Nov 2009

Trilobite Testing, Inc

Ref. No: 36616

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