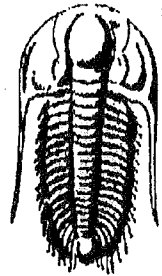


10-29s-9w

IND



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum, Inc.**

525 S Main
Kingman, KS 67068

ATTN: Jon Messenger

15-095-22218

10 29S 9W Kingman KS

OEDING L-1

Start Date: 2011.01.01 @ 03:00:00

End Date: 2011.01.01 @ 13:37:45

Job Ticket #: 39315 DST #: 1

RECEIVED

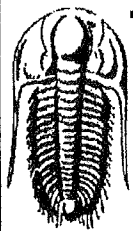
JUL 29 2011

KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Messenger Petroleum, Inc.

525 S Main
Kingman, KS 67068

ATTN: Jon Messenger

OEDING L-1

10 29S 9W Kingman KS

Job Ticket: 39315

DST#: 1

Test Start: 2011.01.01 @ 03:00:00

GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:41:45

Time Test Ended: 13:37:45

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: 4216.00 ft (KB) To 4225.00 ft (KB) (TVD)

Total Depth: 4225.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1714.00 ft (KB)

1705.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6799

Inside

Press@RunDepth: 133.59 psig @ 4217.00 ft (KB)

Start Date: 2011.01.01

End Date:

2011.01.01

Start Time: 03:00:05

End Time:

13:37:45

Capacity: 8000.00 psig

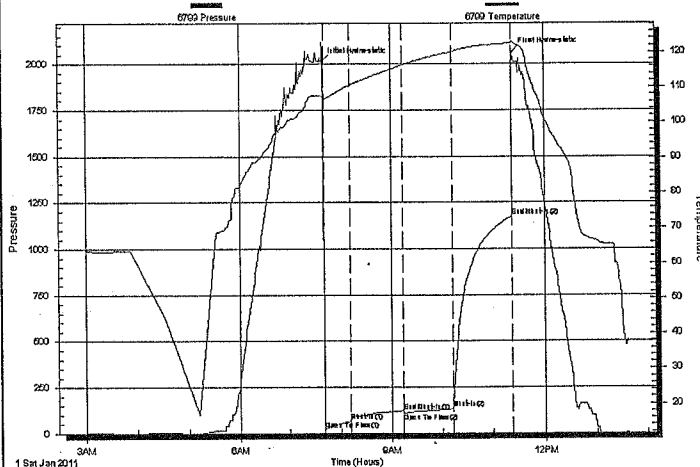
Last Calib.: 2011.01.01

Time On Btm: 2011.01.01 @ 07:38:45

Time Off Btm: 2011.01.01 @ 11:23:29

TEST COMMENT: IF: Strong blow, BOB 3 minutes.
IS: Bled off, blow back built to BOB.
FF: Fairly strong blow, built tpo BOB in 17 minutes.
FSI: Bled off, no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2014.19	107.47	Initial Hydro-static
3	18.76	106.86	Open To Flow (1)
33	65.98	110.55	Shut-In(1)
95	122.45	116.26	End Shut-In(1)
95	108.35	116.29	Open To Flow (2)
154	133.59	120.08	Shut-In(2)
224	1176.22	122.42	End Shut-In(2)
225	2063.40	123.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	water 100%w	0.91
65.00	SOCMW 5%o35%m60%w	0.59
20.00	SW&OCM 5%w 10%o85%m	0.28
0.00	1260' GAS IN PIPE	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petroleum, Inc.

OEDING L-1

525 S Main
Kingman, KS 67068

10 29S 9W Kingman KS

Job Ticket: 39315

DST#: 1

ATTN: Jon Messenger

Test Start: 2011.01.01 @ 03:00:00

Tool Information

Drill Pipe:	Length: 3985.00 ft	Diameter: 3.80 inches	Volume: 55.90 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: 220.00 ft	Diameter: 2.25 inches	Volume: 1.08 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 56.98 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4216.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	32.00 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		4198.00	
Hydraulic tool	5.00		4203.00	
Safety Joint	3.00		4206.00	
Packer	5.00		4211.00	23.00 Bottom Of Top Packer
Packer	5.00		4216.00	
Stubb	1.00		4217.00	
Recorder	0.00	8648 Inside	4217.00	
Recorder	0.00	6799 Inside	4217.00	
Perforations	3.00		4220.00	
Bullnose	5.00		4225.00	9.00 Bottom Packers & Anchor
Total Tool Length:	32.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petroleum, Inc.

525 S Main
Kingman, KS 67068

ATTN: Jon Messenger

OEDING L-1

10 29S 9W Kingman KS

Job Ticket: 39315

DST#: 1

Test Start: 2011.01.01 @ 03:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 11.18 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 150000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	water 100%w	0.910
65.00	SOCMW 5%o35%m60%w	0.593
20.00	SW&OCM 5%w 10%o85%m	0.281
0.00	1260' GAS IN PIPE	0.000

Total Length: 270.00 ft Total Volume: 1.784 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

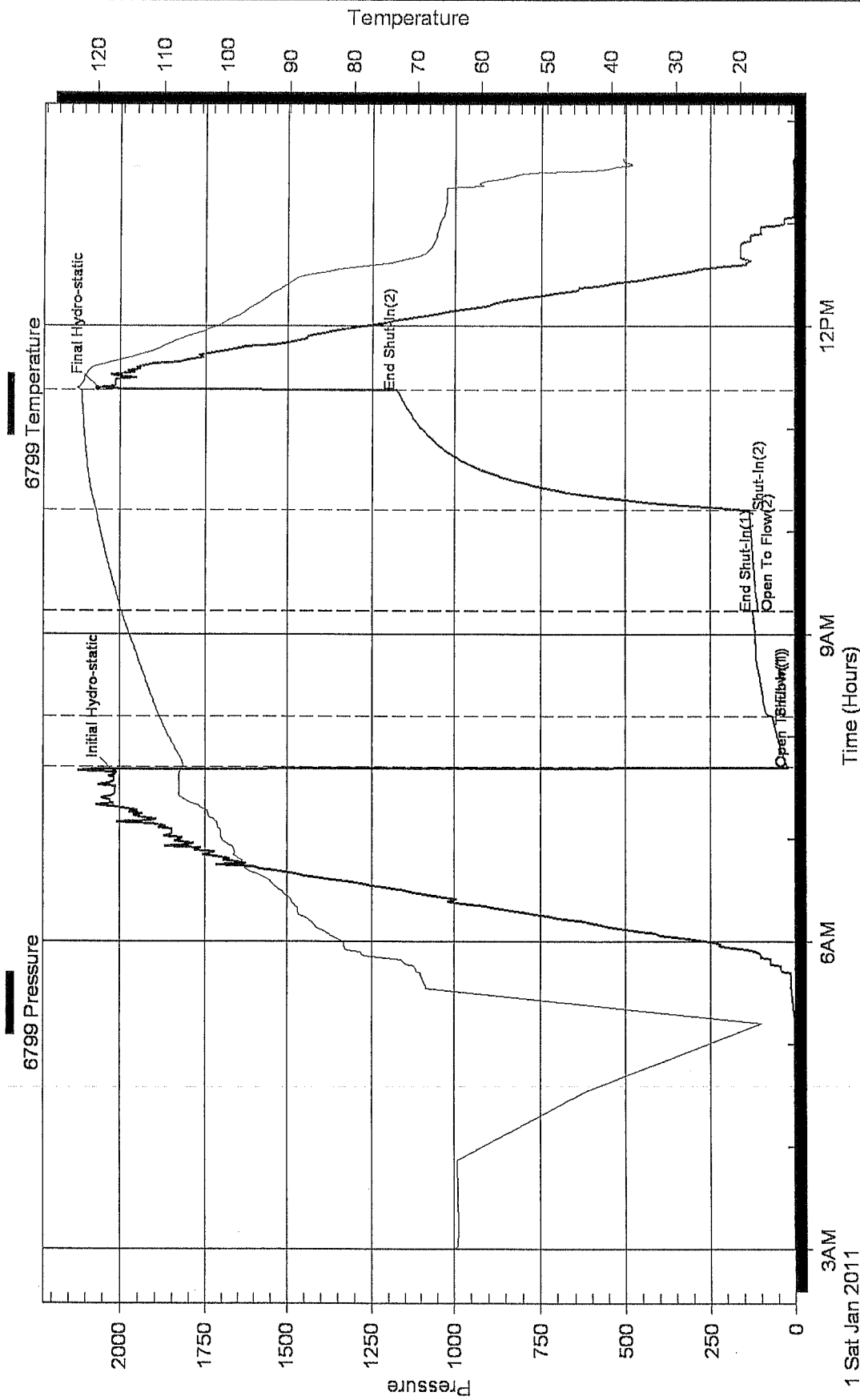
Serial #:

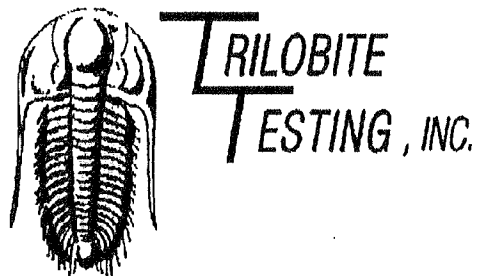
Laboratory Name:

Laboratory Location:

Recovery Comments: RW.12 @ 35F = 150000 chlorides

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum, Inc.**

525 S Main
Kingman, KS 67068

ATTN: Jon Messenger

10 29S 9W Kingman KS

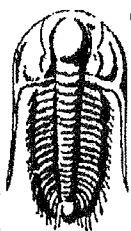
OEDING L-1

Start Date: 2011.01.02 @ 15:35:59

End Date: 2011.01.03 @ 00:23:44

Job Ticket #: 37410 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

Messenger Petroleum, Inc.

525 S Main
Kingman, KS 67068

ATTN: Jon Messenger

OEDING L-1

10 29S 9W Kingman KS

Job Ticket: 37410

DST#: 2

Test Start: 2011.01.02 @ 15:35:59

GENERAL INFORMATION:

Formation: **Viola**

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

Time Tool Opened: 19:59:29

Time Test Ended: 00:23:44

Test Type: **Conventional Bottom Hole**

Tester: **Esak Hadley**

Unit No: **34**

Interval: **4525.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Total Depth: **4530.00 ft (KB) (TVD)**

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

Reference Elevations: **1714.00 ft (KB)**

1705.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 6773

Inside

Press@RunDepth: **961.02 psig @ 4526.00 ft (KB)**

Start Date: **2011.01.02**

End Date:

2011.01.03

Start Time: **15:36:04**

End Time:

00:23:44

Capacity: **8000.00 psig**

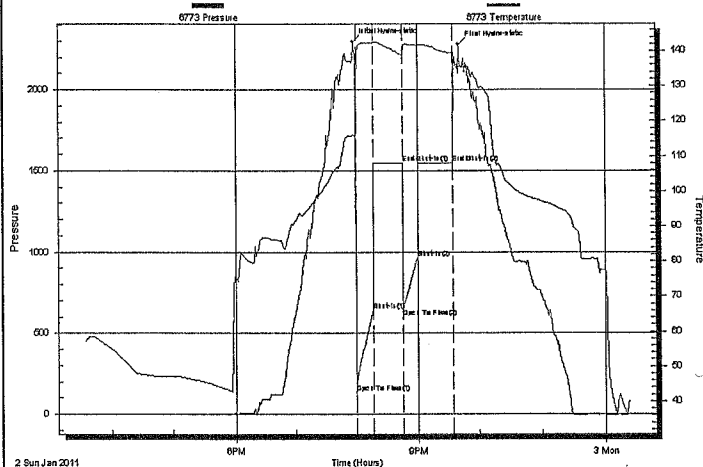
Last Calib.: **2011.01.03**

Time On Btm: **2011.01.02 @ 19:56:29**

Time Off Btm: **2011.01.02 @ 21:40:14**

TEST COMMENT: IF Strong blow . BOB in 60 sec.
ISI Weak blow . Slow increase to 3".
FF Strong blow . BOB in 2 min.
FSI No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2294.00	115.83	Initial Hydro-static
3	132.51	119.17	Open To Flow (1)
20	642.92	142.12	Shut-In (1)
49	1545.56	138.94	End Shut-In (1)
50	650.21	139.06	Open To Flow (2)
64	961.02	141.49	Shut-In (2)
98	1544.87	139.23	End Shut-In (2)
104	2276.61	135.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCW 30% m 70% w	0.61
125.00	MCW 20% m 80% w	0.91
2025.00	clean water	28.41

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petroleum, Inc.

525 S Main
Kingman, KS 67068

ATTN: Jon Messenger

OEDING L-1

10 29S 9W Kingman KS

Job Ticket: 37410

DST#: 2

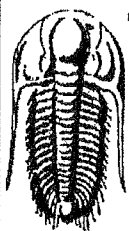
Test Start: 2011.01.02 @ 15:35:59

Tool Information

Drill Pipe:	Length: 4305.00 ft	Diameter: 3.80 inches	Volume: 60.39 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 82000.00 lb
			Total Volume: 61.46 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4525.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	26.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4505.00	
Shut In Tool	5.00			4510.00	
Hydraulic tool	5.00			4515.00	
Packer	5.00			4520.00	21.00 Bottom Of Top Packer
Packer	5.00			4525.00	
Stubb	1.00			4526.00	
Recorder	0.00	8166	Outside	4526.00	
Recorder	0.00	6773	Inside	4526.00	
Perforations	1.00			4527.00	
Bullnose	3.00			4530.00	5.00 Bottom Packers & Anchor
Total Tool Length:	26.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petroleum, Inc.

OEDING L-1

525 S Main
Kingman, KS 67068

10 29S 9W Kingman KS

Job Ticket: 37410

DST#: 2

ATTN: Jon Messenger

Test Start: 2011.01.02 @ 15:35:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 70000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MCW 30% m 70% w	0.615
125.00	MCW 20% m 80% w	0.906
2025.00	clean water	28.405

Total Length: 2275.00 ft

Total Volume: 29.926 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .26@29deg=70Kppm

Serial #: 6773

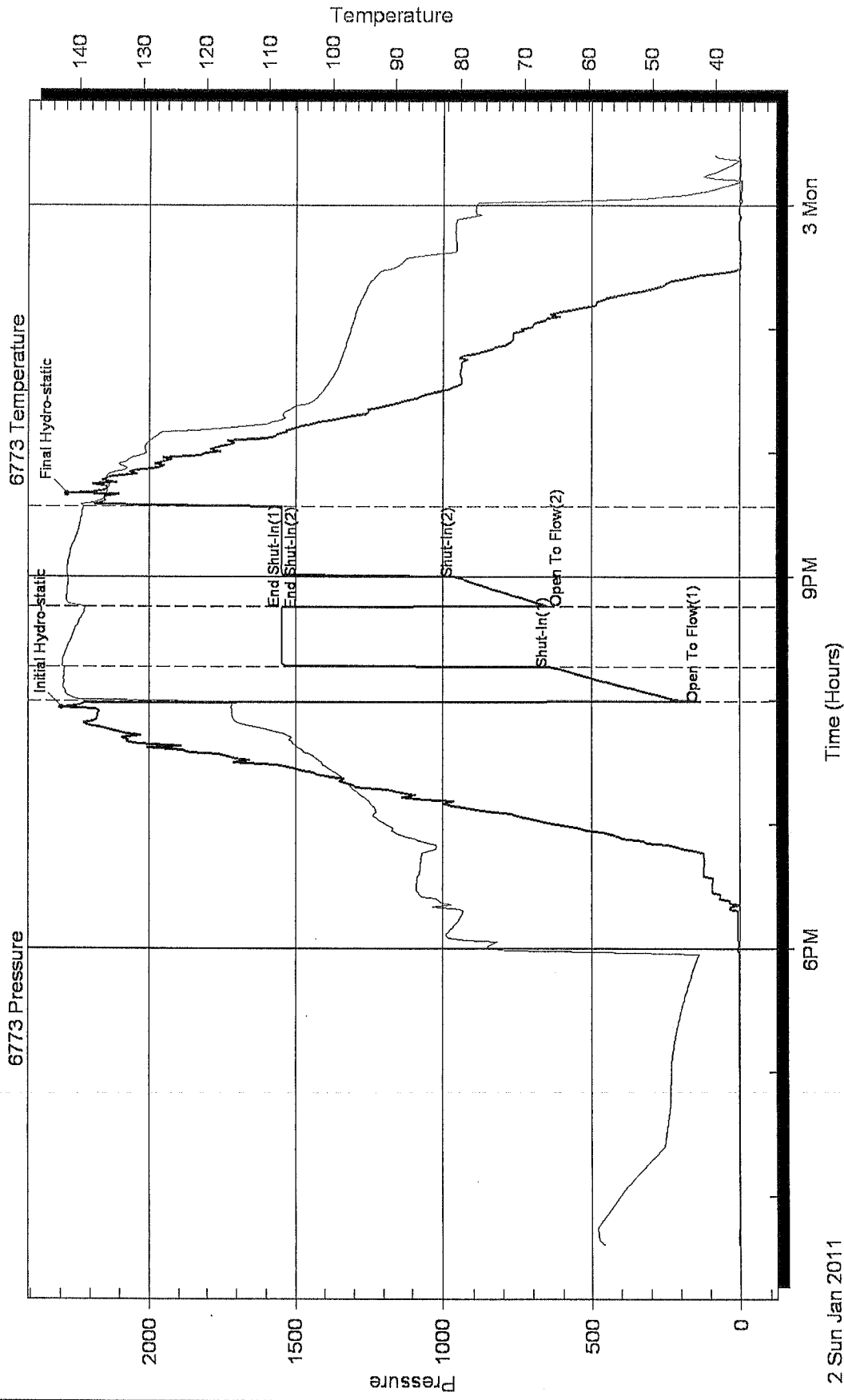
Inside

Messenger Petroleum, Inc.

10 29S9W Kingman KS

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 37410

Printed: 2011.01.07 @ 14:30:46 Page 5