

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum**

525 S Main St
Kingman KS 67068

ATTN: Jon Messenger

8 29S 8W Kingman KS

Demmer "J" #2

Start Date: 2006.09.04 @ 00:42:48

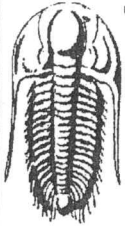
End Date: 2006.09.04 @ 08:43:03

Job Ticket #: 25412 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Messenger Petroleum

525 S Main St
Kingman KS 67068

ATTN: Jon Messenger

Demmer "J" #2

8 29S 8W Kingman KS

Job Ticket: 25412

DST#: 1

Test Start: 2006.09.04 @ 00:42:48

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:42:18

Time Test Ended: 08:43:03

Test Type: Conventional Bottom Hole

Tester: John Colavito

Unit No: 19

Interval: **3870.00 ft (KB) To 3880.00 ft (KB) (TVD)**

Total Depth: 3880.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1686.00 ft (KB)

1677.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6752 Inside

Press@RunDepth: 51.68 psig @ 3871.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.09.04 End Date: 2006.09.04

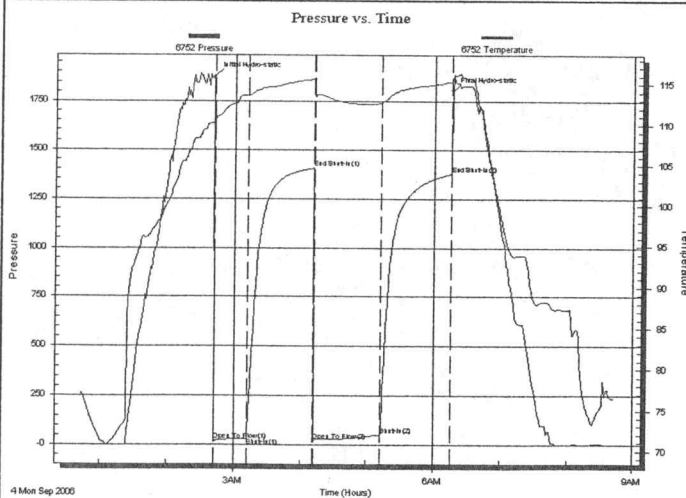
Last Calib.: 2006.09.04

Start Time: 00:42:58 End Time: 08:43:03

Time On Btm: 2006.09.04 @ 02:41:58

Time Off Btm: 2006.09.04 @ 06:16:03

TEST COMMENT: IF: Strong blow . B.O.B. in 20 mins.
IS: No blow back.
FF: Strong blow . B.O.B. in 1sec. GTS in 30 mins. (See gas flow chart.) (Cought gas sample.)
FS: No blow back



PRESSURE SUMMARY

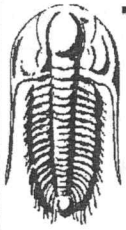
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1876.38	110.24	Initial Hydro-static
1	19.05	110.39	Open To Flow (1)
30	32.98	113.62	Shut-In(1)
90	1404.74	115.63	End Shut-In(1)
91	18.24	113.51	Open To Flow (2)
151	51.68	112.67	Shut-In(2)
214	1375.67	115.33	End Shut-In(2)
215	1803.70	115.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Watery Mud 70%w 30% m	0.30
0.00	1.34 ohms @ 74.5deg= 18000chl	0.00
0.00	3773 Gip	0.00
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	3.00	6.51
Last Gas Rate	0.13	10.00	9.13
Max. Gas Rate	0.13	10.00	9.13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petroleum

Demmer "J" #2

525 S Main St
Kingman KS 67068

8 29S 8W Kingman KS

Job Ticket: 25412

DST#: 1

ATTN: Jon Messenger

Test Start: 2006.09.04 @ 00:42:48

Tool Information

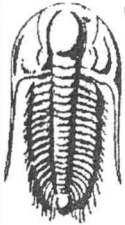
Drill Pipe:	Length: 3651.00 ft	Diameter: 3.80 inches	Volume: 51.21 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 212.00 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 52.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3870.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 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			3847.00	
Hydraulic tool	5.00			3852.00	
Jars	5.00			3857.00	
Safety Joint	3.00			3860.00	
Packer	5.00			3865.00	28.00 Bottom Of Top Packer
Packer	5.00			3870.00	
Stubb	1.00			3871.00	
Recorder	0.00	6752	Inside	3871.00	
Perforations	6.00			3877.00	
Recorder	0.00	11019	Outside	3877.00	
Bullnose	3.00			3880.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petroleum

Demmer "J" #2

525 S Main St
Kingman KS 67068

8 29S 8W Kingman KS

ATTN: Jon Messenger

Job Ticket: 25412

DST#: 1

Test Start: 2006.09.04 @ 00:42:48

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:

18000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Watery Mud 70%w 30%m	0.295
0.00	1.34 ohms @ 74.5deg= 18000chl	0.000
0.00	3773 Gip	0.000
0.00		0.000

Total Length:

ft

Total Volume:

0.295 bbl

Num Fluid Samples: 1

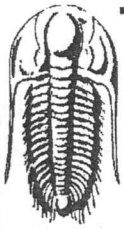
Num Gas Bombs: 1

Serial #: J-C1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Messenger Petroleum

Demmer "J" #2

525 S Main St
Kingman KS 67068

8 29S 8W Kingman KS

Job Ticket: 25412

DST#: 1

ATTN: Jon Messenger

Test Start: 2006.09.04 @ 00:42:48

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	35	0.13	3.00	6.51
2	35	0.13	3.00	6.51
2	35	0.13	3.00	6.51
2	40	0.13	4.00	6.89
2	45	0.13	6.00	7.63
2	50	0.13	7.00	8.01
2	60	0.13	10.00	9.13

Serial #: 6752

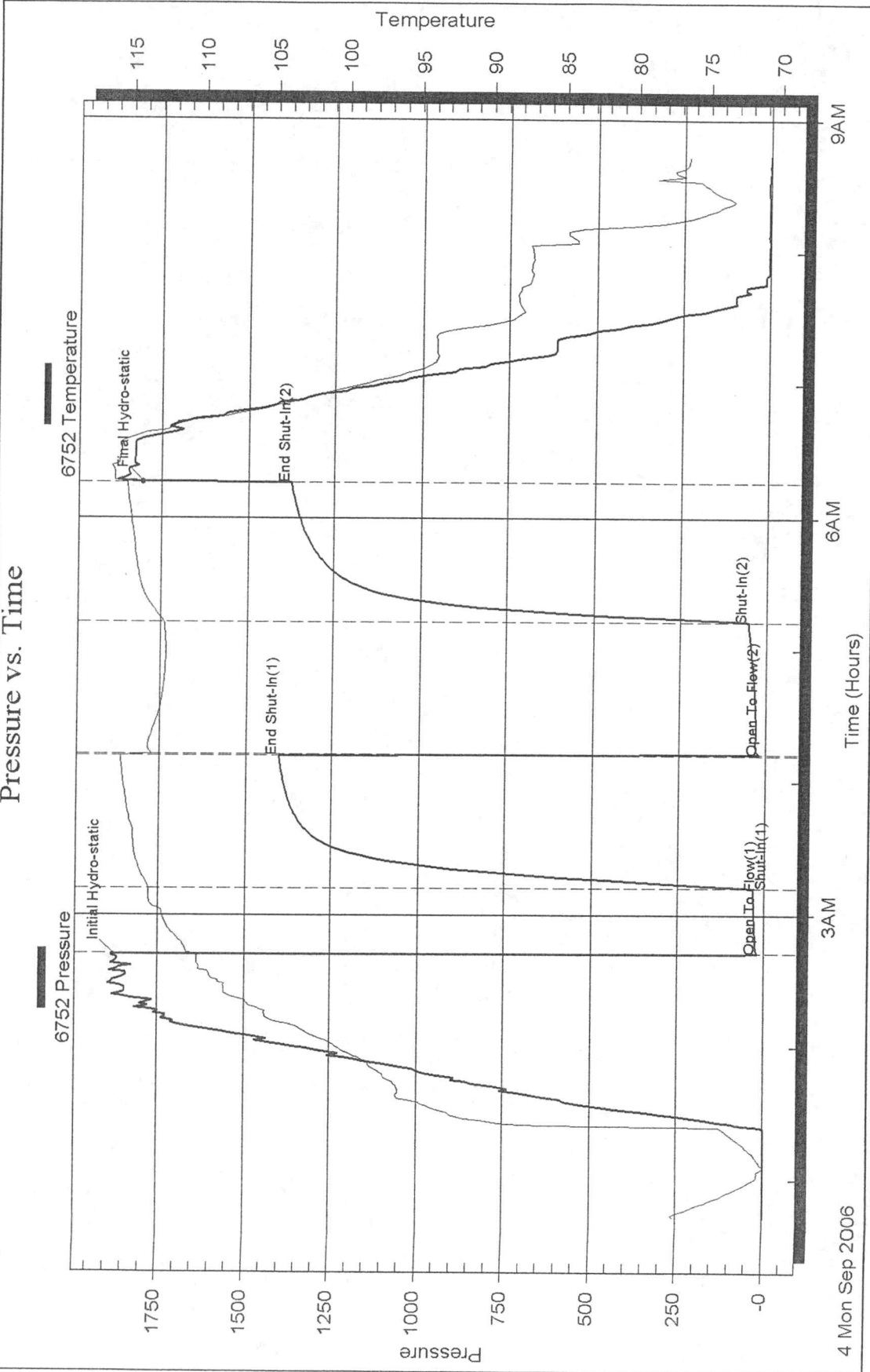
Inside

Messenger Petroleum

8 29S 8W Kingman KS

DST Test Number: 1

Pressure vs. Time



4 Mon Sep 2006

3AM

6AM

9AM



DRILL STEM TEST REPORT

Prepared For: **Messenger Petroleum**

525 S Main St
Kingman KS 67068

ATTN: Jon Messenger

8 29S 8W Kingman KS

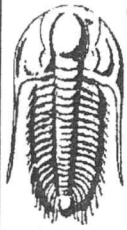
Demmer "J" #2

Start Date: 2006.09.04 @ 16:01:21

End Date: 2006.09.04 @ 22:03:36

Job Ticket #: 25413 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

Messenger Petroleum

525 S Main St
Kingman KS 67068

ATTN: Jon Messenger

Demmer "J" #2

8 29S 8W Kingman KS

Job Ticket: 25413

DST#: 2

Test Start: 2006.09.04 @ 16:01:21

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:52:21

Time Test Ended: 22:03:36

Test Type: Conventional Bottom Hole

Tester: John Colavito

Unit No: 19

Interval: **3896.00 ft (KB) To 3916.00 ft (KB) (TVD)**

Total Depth: 3916.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1686.00 ft (KB)

1677.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6752 Inside

Press@RunDepth: 141.38 psig @ 3897.00 ft (KB)

Start Date: 2006.09.04

End Date:

2006.09.04

Start Time: 16:01:31

End Time:

22:03:36

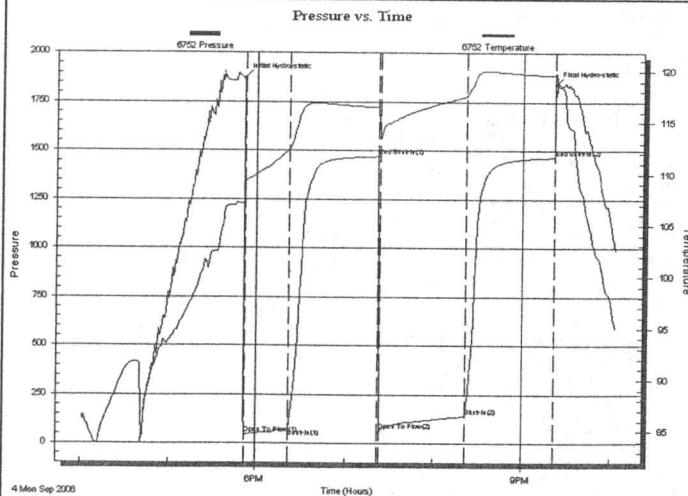
Capacity: 7000.00 psig

Last Calib.: 2006.09.04

Time On Btm: 2006.09.04 @ 17:51:21

Time Off Btm: 2006.09.04 @ 21:22:06

TEST COMMENT: IF Strong blow BOB in 45 secs. GTS in 30 mins.
ISI Weak blow
FF Strong blow BOB in 1 sec. (See gas flow chart) (Caught gas sample)
FSI Fair blow Built to 6 " in bucket



PRESSURE SUMMARY

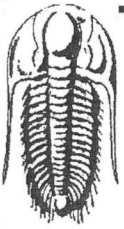
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.30	107.17	Initial Hydro-static
1	47.99	109.36	Open To Flow (1)
31	76.00	112.38	Shut-In(1)
91	1470.24	116.54	End Shut-In(1)
92	64.74	113.48	Open To Flow (2)
151	141.38	117.54	Shut-In(2)
211	1466.09	119.60	End Shut-In(2)
211	1836.46	119.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Gassy Oil Cut Mud 40%G 10%O 50%M	0.59
120.00	Gassy Mudy Oil 30%G 30%M 40%O	0.85
130.00	Mud Cut Gassy Oil 10%M 40%G 50%O	1.82
60.00	Water Cut Gassy Oil 15%W 55%G 30%O	0.84
0.00	3497 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	8.00	8.38
Last Gas Rate	0.13	21.50	13.42
Max. Gas Rate	0.13	21.50	13.42



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petroleum

Demmer "J" #2

525 S Main St
Kingman KS 67068

8 29S 8W Kingman KS

Job Ticket: 25413

DST#: 2

ATTN: Jon Messenger

Test Start: 2006.09.04 @ 16:01:21

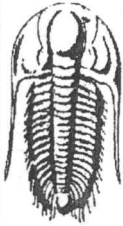
Tool Information

Drill Pipe:	Length: 3715.00 ft	Diameter: 3.80 inches	Volume: 52.11 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 212.00 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume: 53.15 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	59.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	3896.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	48.00 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			3873.00	
Hydraulic tool	5.00			3878.00	
Jars	5.00			3883.00	
Safety Joint	3.00			3886.00	
Packer	5.00			3891.00	28.00 Bottom Of Top Packer
Packer	5.00			3896.00	
Stubb	1.00			3897.00	
Recorder	0.00	6752	Inside	3897.00	
Perforations	16.00			3913.00	
Recorder	0.00	11019	Outside	3913.00	
Bullnose	3.00			3916.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petroleum

Demmer "J" #2

525 S Main St
Kingman KS 67068

8 29S 8W Kingman KS

Job Ticket: 25413

DST#: 2

ATTN: Jon Messenger

Test Start: 2006.09.04 @ 16:01:21

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:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Gassy Oil Cut Mud 40%G 10%O 50%M	0.590
120.00	Gassy Mudy Oil 30%G 30%M 40%O	0.845
130.00	Mud Cut Gassy Oil 10%M 40%G 50%O	1.824
60.00	Water Cut Gassy Oil 15%W 55%G 30%O	0.842
0.00	3497 GIP	0.000

Total Length: 430.00 ft

Total Volume: 4.101 bbl

Num Fluid Samples: 1

Num Gas Bombs: 2

Serial #: J-C2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Messenger Petroleum

Demmer "J" #2

525 S Main St
Kingman KS 67068

8 29S 8W Kingman KS

ATTN: Jon Messenger

Job Ticket: 25413

DST#: 2

Test Start: 2006.09.04 @ 16:01:21

Gas Rates Information

Temperature: 60 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	0.13	8.00	8.38
2	20	0.13	11.50	9.69
2	30	0.13	15.00	10.99
2	40	0.13	17.00	11.74
2	50	0.13	19.50	12.68
2	60	0.13	21.50	13.42

Serial #: 6752

Inside

Messenger Petroleum

8 29S 8W Kingman KS

DST Test Number: 2

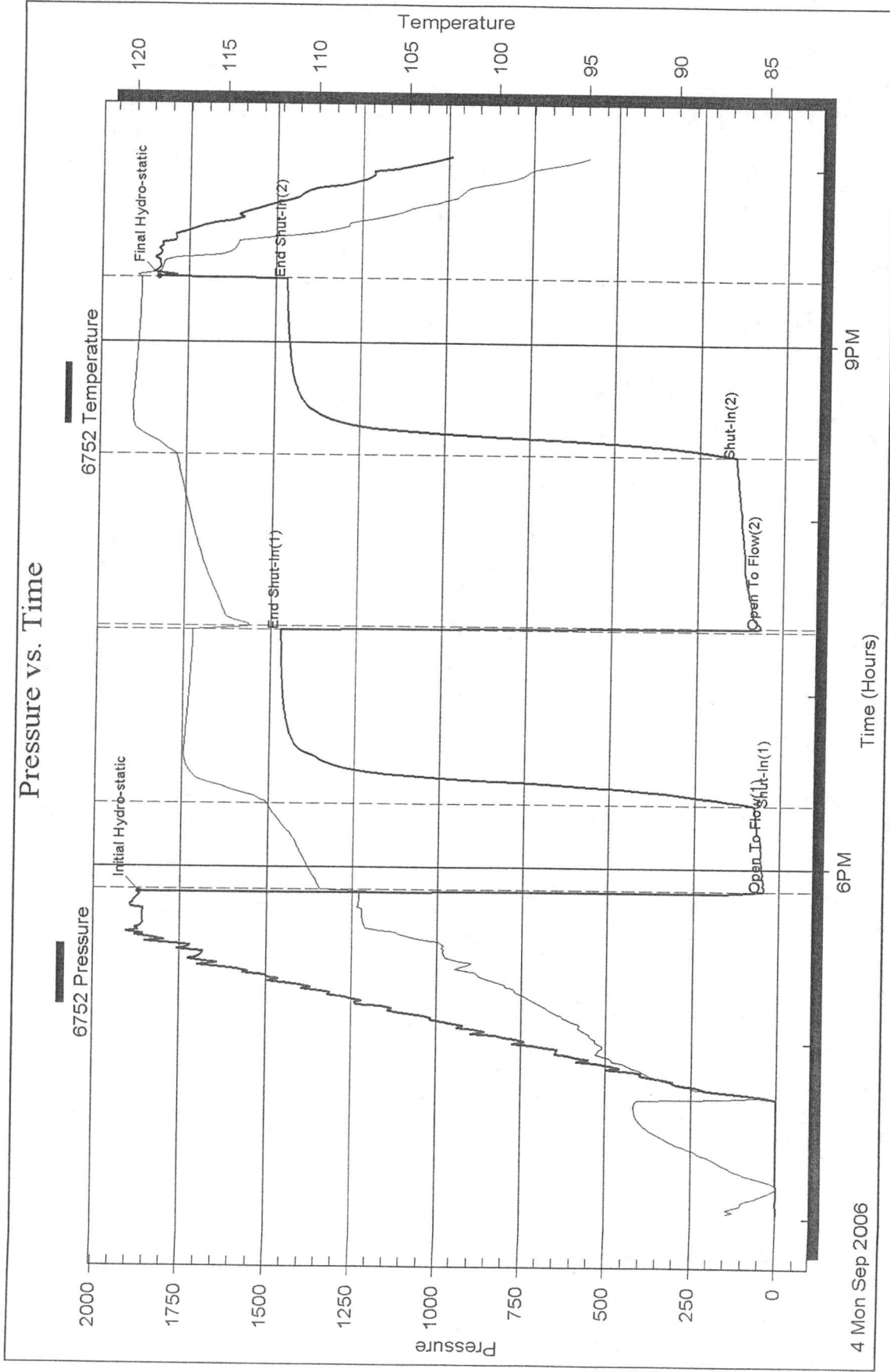


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

Messenger Petroleum
Demmer #J11 #2
DST 1 Swage
11019 @ 3877

04-03-06

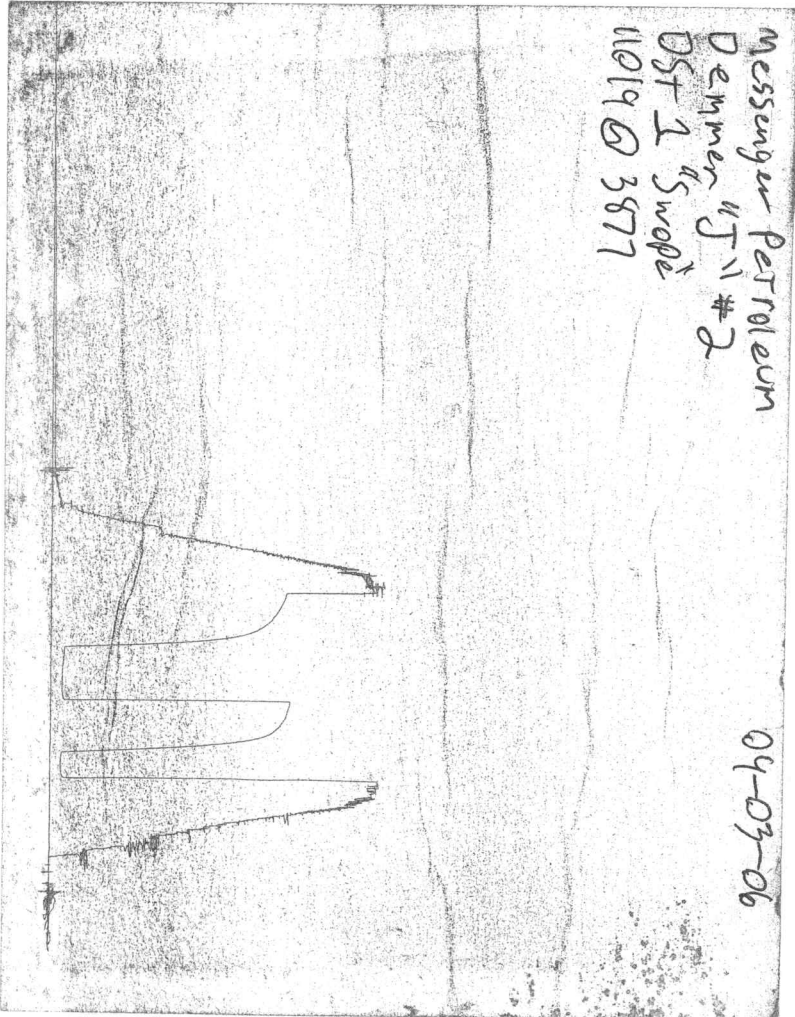


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

Messenger PetroPerm
Demmer of #2
DST-2 Hertha
11019 @ 3913

04-04-06

