

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Crawford Oil Co**

PO Box 1366
El Dorado KS 67042-1366

ATTN: Larry Crawford

5 15 21 Trego KS

Schmidt # 1-5

Start Date: 2006.09.09 @ 17:00:00

End Date: 2006.09.09 @ 23:07:15

Job Ticket #: 26848 DST #: 1

15-195-22350-00

SW NE NW SW

2171 PSL 941 FWL

Trilobite Testing, Inc

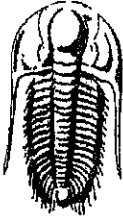
PO Box 362 Hays, KS 67601

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

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Crawford Oil Co

PO Box 1366
El Dorado KS 67042-1366

ATTN: Larry Crawford

Schmidt # 1-5

5 15 21 Trego KS

Job Ticket: 26848

DST#: 1

Test Start: 2006.09.09 @ 17:00:00

GENERAL INFORMATION:

Formation: **Cherokee Sd**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:41:10

Time Test Ended: 23:07:15

Interval: **3997.00 ft (KB) To 4011.00 ft (KB) (TVD)**

Total Depth: 4011.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Reference Elevations: 2148.00 ft (KB)

2143.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 6741

Inside

Press@RunDepth: 393.71 psig @ 3998.00 ft (KB)

Start Date: 2006.09.09

End Date:

2006.09.09

Start Time: 17:00:02

End Time:

23:07:15

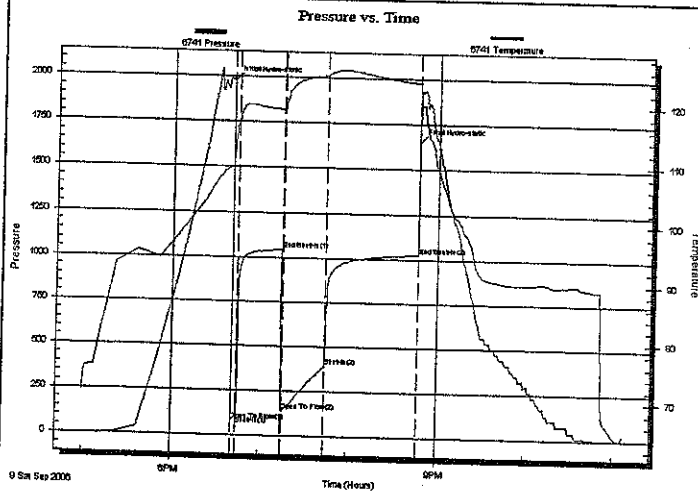
Capacity: 7000.00 psig

Last Calib.: 2006.09.09

Time On Btmr: 2006.09.09 @ 18:40:50

Time Off Btm: 2006.09.09 @ 20:47:15

TEST COMMENT: IF Strong B-B in 2 min
ISI Weak building to 1/2 "
FF Strong B-B in 2 min
FSI Weak building to 1 "



PRESSURE SUMMARY

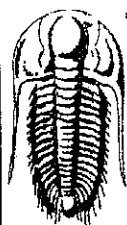
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.15	109.37	Initial Hydro-static
1	79.85	110.21	Open To Flow (1)
4	105.56	116.88	Shut-in(1)
34	1047.69	119.08	End Shut-in(1)
35	137.98	118.69	Open To Flow (2)
64	393.71	124.81	Shut-in(2)
127	1026.19	123.84	End Shut-in(2)
127	1649.37	124.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	OCM 20% O 80% M	0.60
933.00	CGSyO 10% G 90% O	13.09
0.00	680 GIP	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

Crawford Oil Co

Schmidt # 1-5

PO Box 1366
El Dorado KS 67042-1366

5 15 21 Trego KS

Job Ticket: 26848

DST#: 1

ATTN: Larry Crawford

Test Start: 2006.09.09 @ 17:00:00

Tool Information

Drill Pipe:	Length: 3861.00 ft	Diameter: 3.80 inches	Volume: 54.16 bbl	Tool Weight: 2000.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	54.76 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3997.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

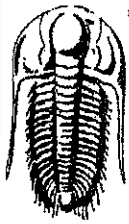
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3969.00	
Shut In Tool	5.00			3974.00	
Hydraulic tool	5.00			3979.00	
Jars	5.00			3984.00	
Safety Joint	3.00			3987.00	
Packer	5.00			3992.00	29.00 Bottom Of Top Packer
Packer	5.00			3997.00	
Stubb	1.00			3998.00	
Recorder	0.00	6741	Inside	3998.00	
Perforations	10.00			4008.00	
Recorder	0.00	13254	Outside	4008.00	
Bullnose	3.00			4011.00	14.00 Bottom Packers & Anchor

Total Tool Length: 43.00

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Crawford Oil Co

Schmidt # 1-5

PO Box 1366
El Dorado KS 67042-1366

5 15 21 Trego KS

Job Ticket: 26848

DST#: 1

ATTN: Larry Crawford

Test Start: 2006.09.09 @ 17:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

40 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
121.00	OCM 20%O 80%M	0.595
933.00	CGsyO 10%G 90%O	13.088
0.00	680 GIP	0.000

Total Length: 1054.00 ft

Total Volume: 13.683 bbl

Num Fluid Samples: 0

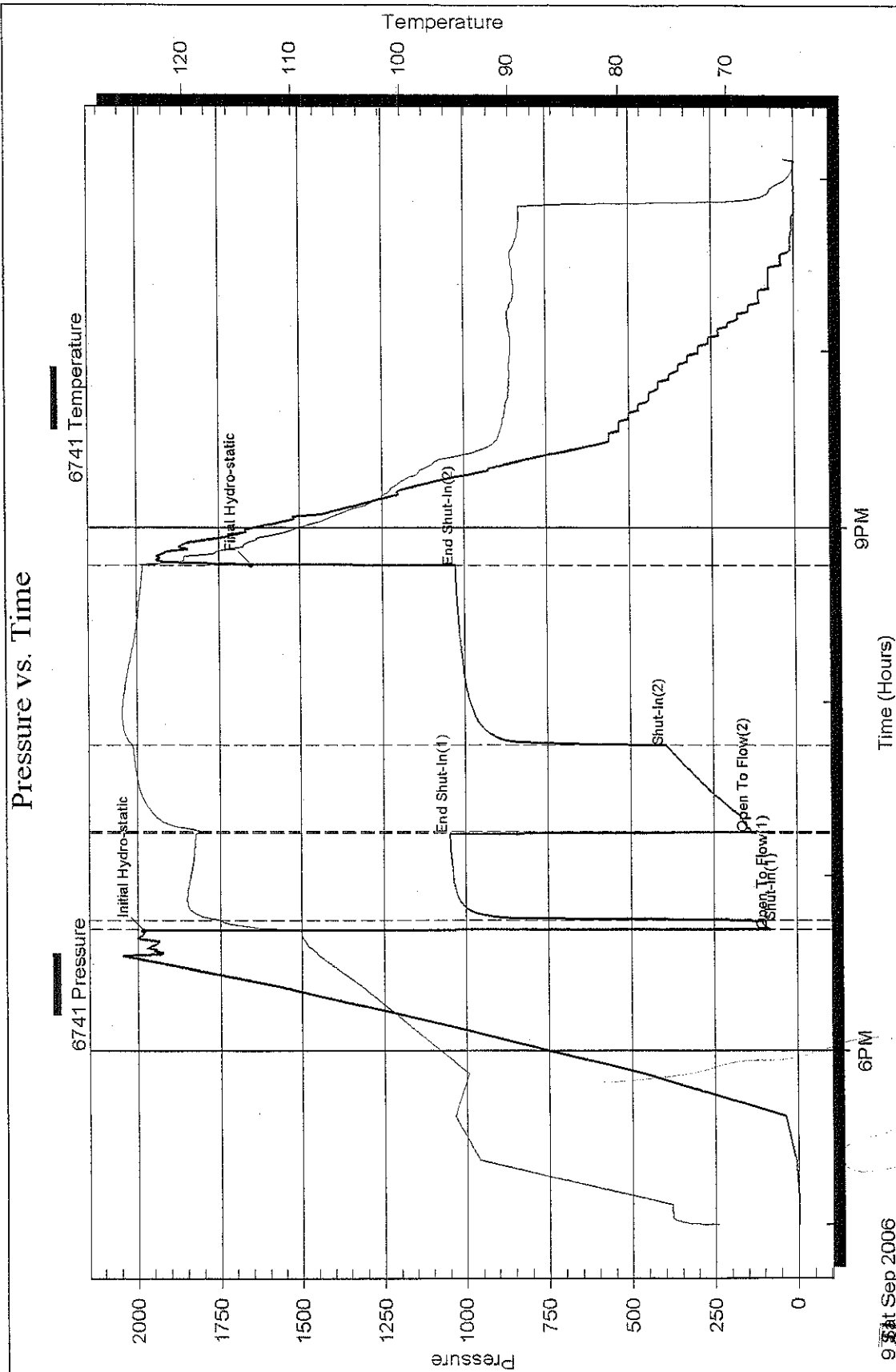
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



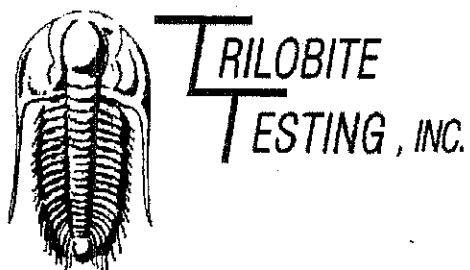
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Ref. No: 26848

Trilolite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **Crawford Oil Co**

PO Box 1366
El Dorado KS 67042-1366

ATTN: Larry Crawford

5 15 21 Trego KS

Schmidt # 1-5

Start Date: 2006.09.10 @ 06:15:49

End Date: 2006.09.10 @ 11:44:34

Job Ticket #: 26849 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Printed: 2006.09.12 @ 13:48:01 Page 1

Crawford Oil Co

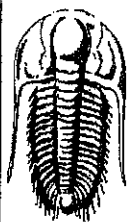
Schmidt # 1-5

5 15 21 Trego KS

DST # 2

Cherokee Sd

2006.09.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Crawford Oil Co
PO Box 1366
El Dorado KS 67042-1366
ATTN: Larry Crawford

Schmidt # 1-5
5 15 21 Trego KS
Job Ticket: 26849 DST#: 2
Test Start: 2006.09.10 @ 06:15:49

GENERAL INFORMATION:

Formation: **Cherokee Sd**
Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:03:19

Time Test Ended: 11:44:34

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **4015.00 ft (KB) To 4034.00 ft (KB) (TVD)**

Total Depth: **4034.00 ft (KB) (TVD)**

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

Reference Elevations: 2148.00 ft (KB)

2143.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6741**

Inside

Press@RunDepth: 72.00 psig @ 4016.00 ft (KB)

Start Date: 2006.09.10

End Date:

2006.09.10

Start Time: 06:15:51

End Time:

11:44:34

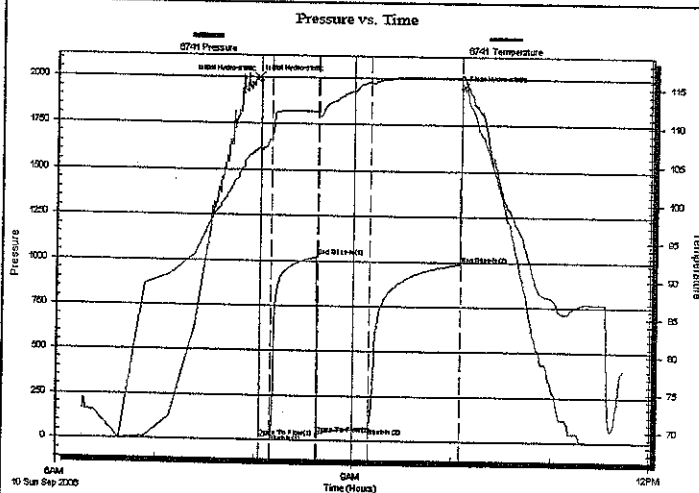
Capacity: 7000.00 psig

Last Calib.: 2006.09.10

Time On Btm: 2006.09.10 @ 08:00:39

Time Off Btm: 2006.09.10 @ 10:04:19

TEST COMMENT: IF Weak building to 1/2 "
FF Weak building to 1/2 "
Times 3 30 30 60



PRESSURE SUMMARY

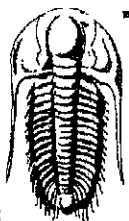
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.54	106.88	Initial Hydro-static
3	1983.39	107.13	Initial Hydro-static
3	16.63	106.65	Open To Flow (1)
9	31.79	108.36	Shut-In(1)
38	1022.72	111.79	End Shut-In(1)
38	36.34	111.47	Open To Flow (2)
69	72.00	115.61	Shut-In(2)
124	988.80	116.37	End Shut-In(2)
124	1945.14	116.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mdy Wtr	0.30
65.00	OCM 40%O 60%M	0.36

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Crawford Oil Co

Schmidt # 1-5

PO Box 1366
Dorado KS 67042-1366

5 15 21 Trego KS

Job Ticket: 26849

DST#: 2

ATTN: Larry Crawford

Test Start: 2006.09.10 @ 06:15:49

Tool Information

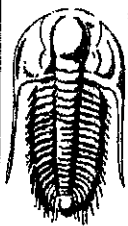
Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 48000.00 lb
		Total Volume:	55.19 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4015.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 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
Change Over Sub	1.00			3987.00	
Shut In Tool	5.00			3992.00	
Hydraulic tool	5.00			3997.00	
Jars	5.00			4002.00	
Safety Joint	3.00			4005.00	
Packer	5.00			4010.00	29.00 Bottom Of Top Packer
Packer	5.00			4015.00	
Stubb	1.00			4016.00	
Recorder	0.00	6741	Inside	4016.00	
Perforations	15.00			4031.00	
Recorder	0.00	13254	Outside	4031.00	
Bullnose	3.00			4034.00	19.00 Bottom Packers & Anchor

Total Tool Length: 48.00

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El Dorado KS 67042-1366

5 15 21 Trego KS

Job Ticket: 26849

DST#: 2

ATTN: Larry Crawford

Test Start: 2006.09.10 @ 06:15:49

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.96 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

40000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mdy Wtr	0.295
65.00	OCM 40%O 60%M	0.356

Total Length: 125.00 ft Total Volume: 0.651 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .15 @ 80 = 40000ppm

DST Test Number: 2

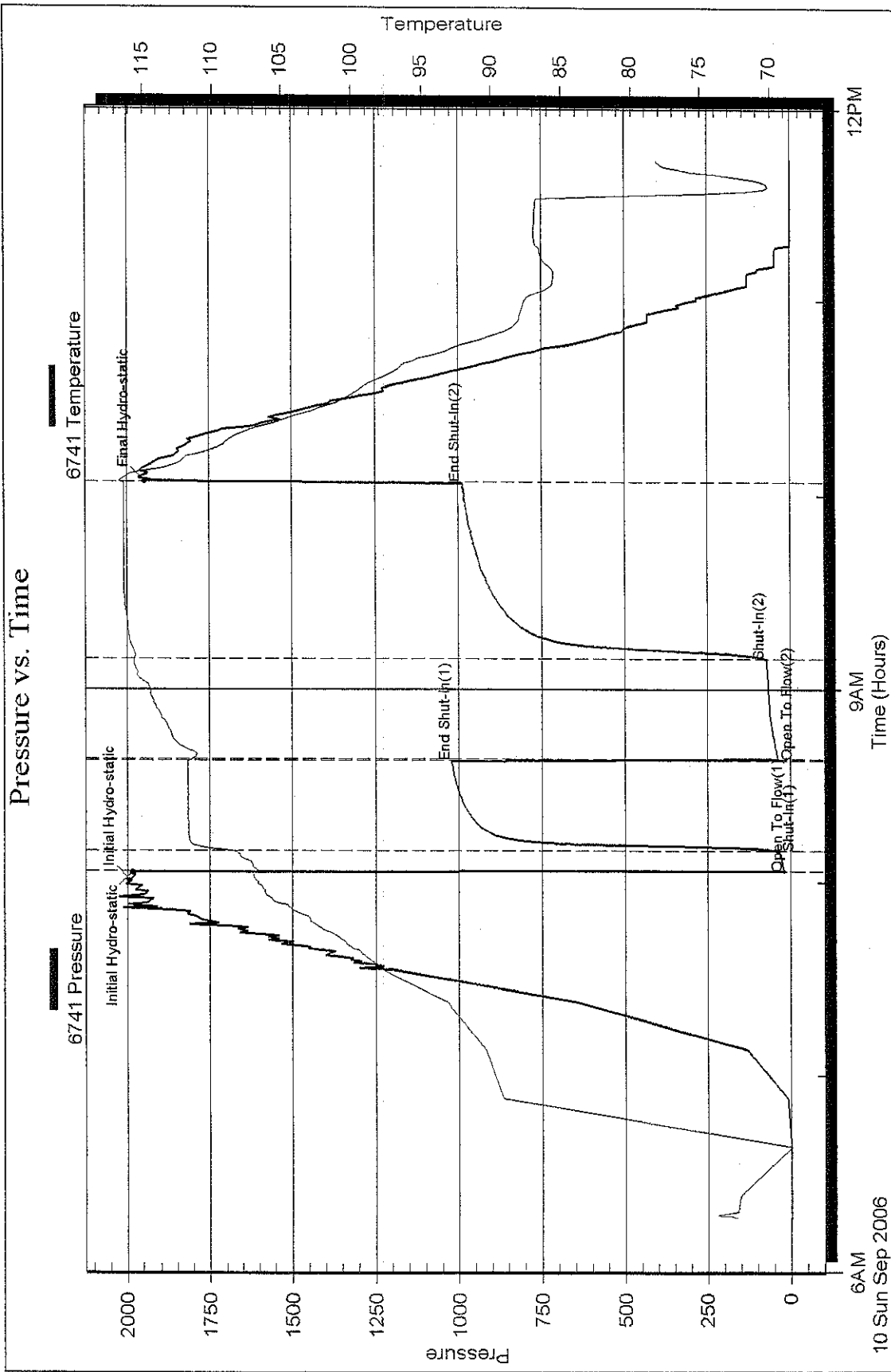
5 15 21 Trego KS

Crawford Oil Co

Inside

Serial #: 6741

Pressure vs. Time



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