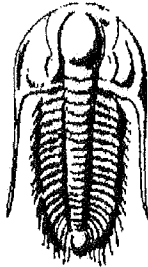


15-167-23289

7-12s-13w

RECEIVED
AUG 19 2005
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **J O Farmer Inc**

CONFIDENTIAL
PO Box 352
Russell Ks 67665
ORIGINAL KCC

ATTN: John Farmer **AUG 18 2005**

7-12-13-Russell-Ks **CONFIDENTIAL**

Weigel # 1

Start Date: 2005.05.20 @ 18:20:53

End Date: 2005.05.21 @ 01:10:23

Job Ticket #: 22816 DST #: 1

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

J O Farmer Inc

Weigel # 1

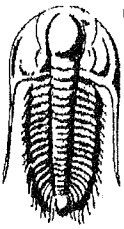
7-12-13-Russell-Ks

DST # 1

A-B

LKC

2005.05.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

J O Farmer Inc

Weigel # 1

PO Box 352
Russell Ks 67665

7-12-13-Russell-Ks

ATTN: John Farmer

Job Ticket: 22816

DST#: 1

Test Start: 2005.05.20 @ 18:20:53

GENERAL INFORMATION:

Formation: **A-B LKC**

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

Time Tool Opened: 20:22:53

Time Test Ended: 01:10:23

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **2972.00 ft (KB) To 3020.00 ft (KB) (TVD)**

Total Depth: 3020.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1743.00 ft (KB)

1738.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 67.59 psig @ 2975.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.05.20

End Date:

2005.05.21

Last Calib.:

2005.05.21

Start Time: 18:20:54

End Time:

01:10:23

Time On Btm:

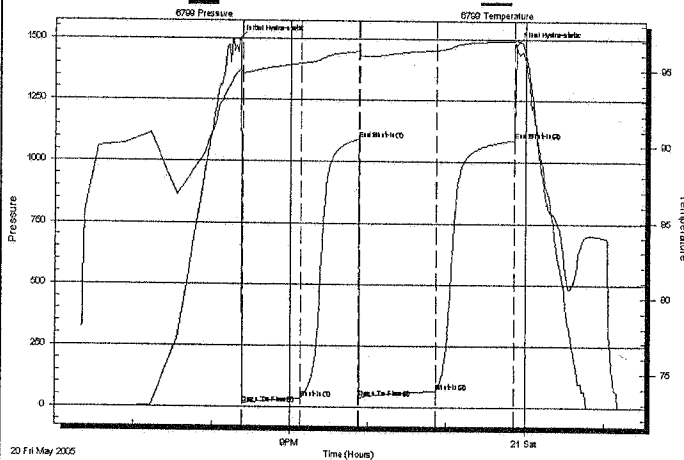
2005.05.20 @ 20:20:23

Time Off Btm:

2005.05.20 @ 23:52:53

TEST COMMENT: IF-Weak building to 2"
FF-Weak building to 4"
Times-45-45-60-60

Pressure vs. Time



PRESSURE SUMMARY

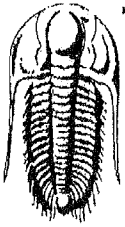
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1495.35	94.90	Initial Hydro-static
3	12.69	94.77	Open To Flow (1)
48	36.91	95.45	Shut-In(1)
92	1091.01	96.26	End Shut-In(1)
93	40.27	96.00	Open To Flow (2)
152	67.59	96.36	Shut-In(2)
212	1089.35	96.99	End Shut-In(2)
213	1476.89	97.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCM 20% @ 80% m	0.59
10.00	CO	0.05
0.00	120 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

J O Farmer Inc

Weigel # 1

PO Box 352
Russell Ks 67665

7-12-13-Russell-Ks

Job Ticket: 22816

DST#: 1

ATTN: John Farmer

Test Start: 2005.05.20 @ 18:20:53

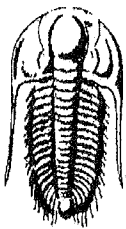
Tool Information

Drill Pipe:	Length: 2774.00 ft	Diameter: 3.80 inches	Volume: 38.91 bbl	Tool Weight: 2300.00 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 39.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	2972.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	69.00 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			2952.00	
Shut In Tool	5.00			2957.00	
Hydraulic tool	5.00			2962.00	
Packer	5.00			2967.00	21.00 Bottom Of Top Packer
Packer	5.00			2972.00	
Stubb	1.00			2973.00	
Perforations	1.00			2974.00	
Change Over Sub	1.00			2975.00	
Recorder	0.00	6799	Inside	2975.00	
Drill Pipe	31.00			3006.00	
Change Over Sub	1.00			3007.00	
Recorder	0.00	13254	Outside	3007.00	
Perforations	10.00			3017.00	
Bullnose	3.00			3020.00	48.00 Bottom Packers & Anchor

Total Tool Length: 69.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

J O Farmer Inc

Weigel # 1

PO Box 352
Russell Ks 67665

7-12-13-Russell-Ks

Job Ticket: 22816

DST#: 1

ATTN: John Farmer

Test Start: 2005.05.20 @ 18:20:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OCM 20%o 80%m	0.590
10.00	CO	0.049
0.00	120 GIP	0.000

Total Length: 130.00 ft

Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6799

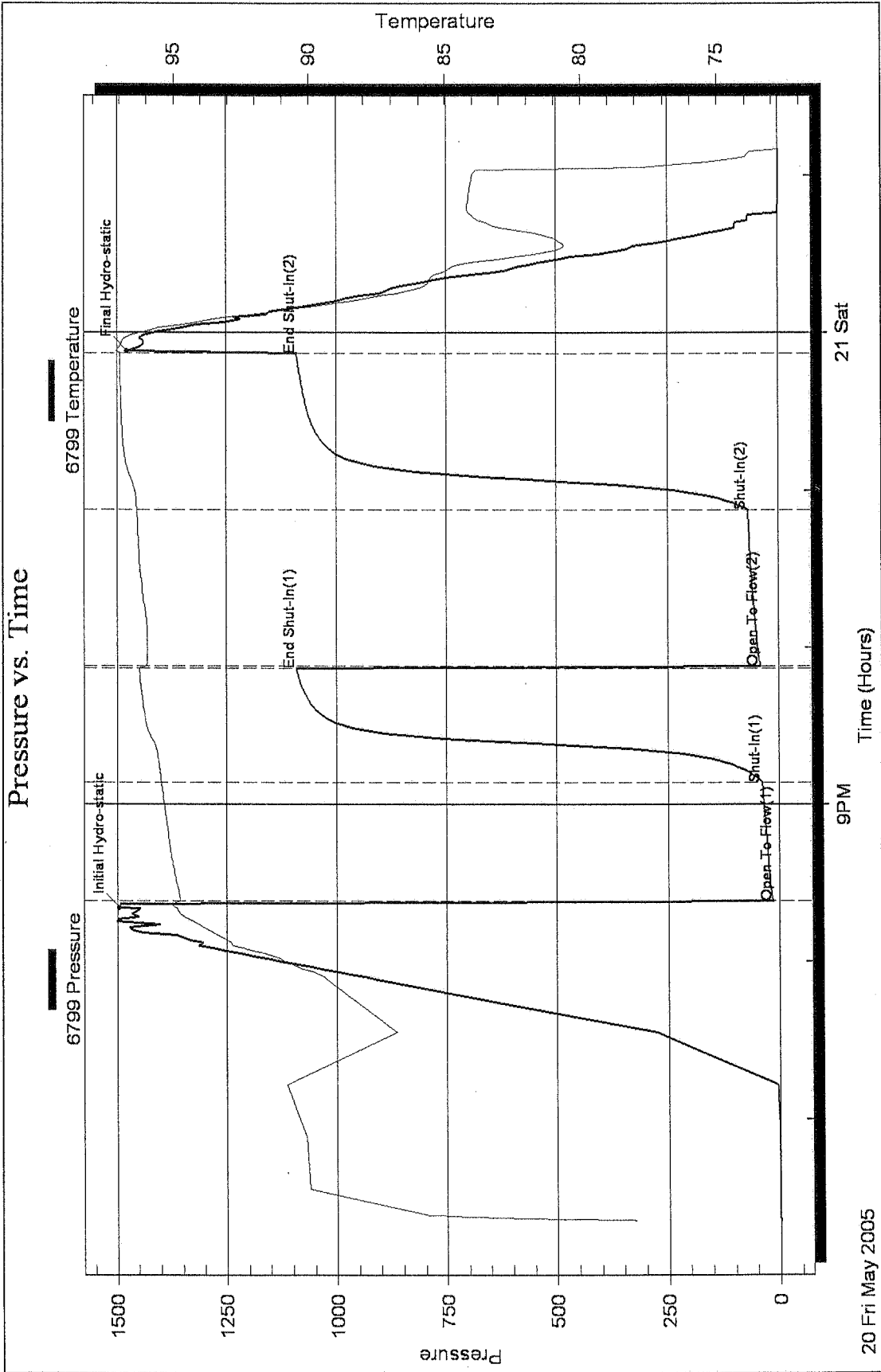
Inside

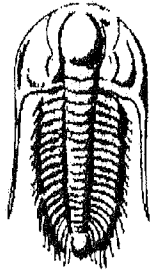
J O Farmer Inc

7-12-13-Russell-Ks

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **J O Farmer Inc**

PO Box 352
Russell Ks 67665

ATTN: John Farmer

7-12-13-Russell-Ks

Weigel # 1

Start Date: 2005.05.21 @ 08:00:11

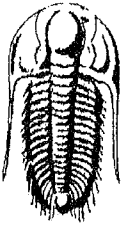
End Date: 2005.05.21 @ 14:45:11

Job Ticket #: 22817 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

J O Farmer Inc

Weigel # 1

PO Box 352
Russell Ks 67665

7-12-13-Russell-Ks

ATTN: John Farmer

Job Ticket: 22817

DST#: 2

Test Start: 2005.05.21 @ 08:00:11

GENERAL INFORMATION:

Formation: **E-F-G LKC**

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

Time Tool Opened: 09:41:11

Time Test Ended: 14:45:11

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3017.00 ft (KB) To 3070.00 ft (KB) (TVD)**

Reference Elevations: 1743.00 ft (KB)

Total Depth: 3070.00 ft (KB) (TVD)

1738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press@RunDepth: 217.03 psig @ 3020.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.05.21 End Date: 2005.05.21

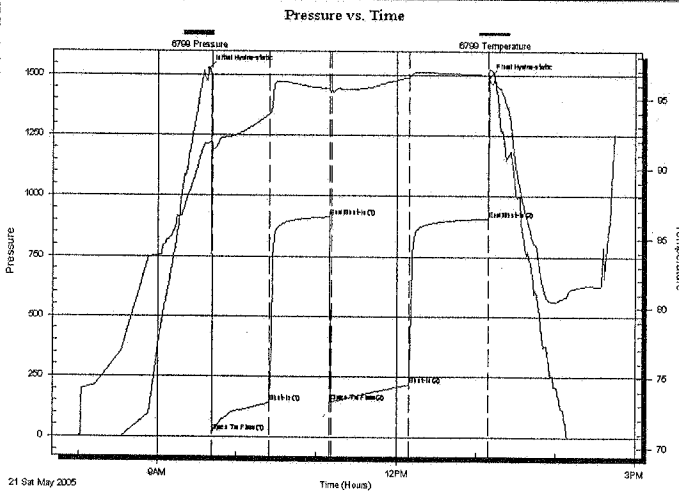
Last Calib.: 2005.05.21

Start Time: 08:00:12 End Time: 14:45:11

Time On Btm: 2005.05.21 @ 09:38:41

Time Off Btm: 2005.05.21 @ 13:09:41

TEST COMMENT: IF-Strong B-B in 22 min
IS-Weak surface blow
FF-Strong B-B in 28 min
FSI-Weak surface blow



PRESSURE SUMMARY

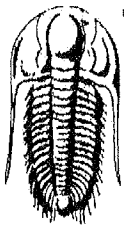
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1525.15	91.82	Initial Hydro-static
3	19.50	91.44	Open To Flow (1)
46	142.97	93.94	Shut-In(1)
92	913.93	95.75	End Shut-In(1)
93	144.83	95.64	Open To Flow (2)
151	217.03	96.56	Shut-In(2)
210	907.72	96.74	End Shut-In(2)
211	1492.32	97.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Wtr Rw .09 @ 85 = 70000ppm	0.91
125.00	Silty OCW 3%o 97%w	1.75
30.00	OCM 30%o 70%m	0.42
45.00	CO	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

J O Farmer Inc

Weigel # 1

PO Box 352
Russell Ks 67665

7-12-13-Russell-Ks

Job Ticket: 22817

DST#: 2

ATTN: John Farmer

Test Start: 2005.05.21 @ 08:00:11

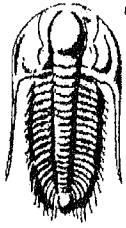
Tool Information

Drill Pipe:	Length: 2837.00 ft	Diameter: 3.80 inches	Volume: 39.80 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: 25000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 40.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3017.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	74.00 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			2997.00	
Shut In Tool	5.00			3002.00	
Hydraulic tool	5.00			3007.00	
Packer	5.00			3012.00	21.00 Bottom Of Top Packer
Packer	5.00			3017.00	
Stubb	1.00			3018.00	
Perforations	1.00			3019.00	
Change Over Sub	1.00			3020.00	
Recorder	0.00	6799	Inside	3020.00	
Drill Pipe	31.00			3051.00	
Change Over Sub	1.00			3052.00	
Recorder	0.00	13254	Outside	3052.00	
Perforations	15.00			3067.00	
Bullnose	3.00			3070.00	53.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

J O Farmer Inc

Weigel # 1

PO Box 352
Russell Ks 67665

7-12-13-Russell-Ks

Job Ticket: 22817

DST#: 2

ATTN: John Farmer

Test Start: 2005.05.21 @ 08:00:11

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: 70000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.59 in*	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	Wtr Rw .09 @ 85 = 70000ppm	0.910
125.00	Sltly OCW 3%o 97%w	1.753
30.00	OCM 30%o 70%m	0.421
45.00	CO	0.631

Total Length: 385.00 ft Total Volume: 3.715 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6799

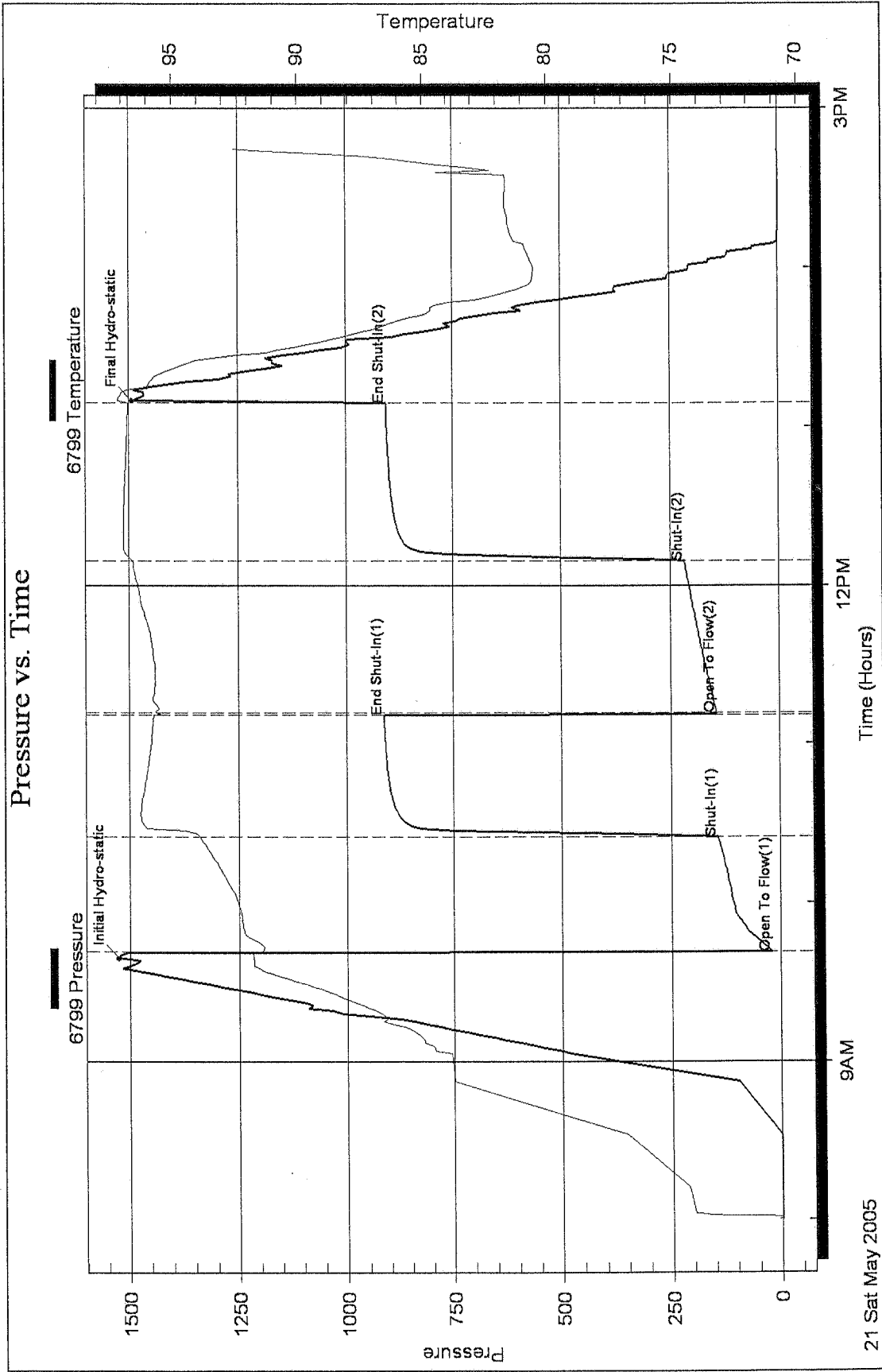
Inside

J O Farmer Inc

7-12-13-Russell-Ks

DST Test Number: 2

Pressure vs. Time

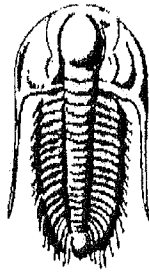


21 Sat May 2005

9AM

12PM

3PM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **J O Farmer Inc**

PO Box 352
Russell Ks 67665

ATTN: John Farmer

7-12-13-Russell-Ks

Weigel # 1

Start Date: 2005.05.21 @ 23:22:43

End Date: 2005.05.22 @ 04:32:43

Job Ticket #: 22818 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

J O Farmer Inc

Weigel # 1

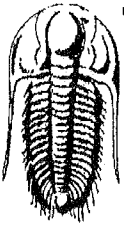
7-12-13-Russell-Ks

DST # 3

H-I-J

LKC

2005.05.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

J O Farmer Inc

Weigel # 1

PO Box 352
Russell Ks 67665

7-12-13-Russell-Ks

Job Ticket: 22818

DST#: 3

ATTN: John Farmer

Test Start: 2005.05.21 @ 23:22:43

GENERAL INFORMATION:

Formation: **H-I-J LKC**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 01:04:43
 Time Test Ended: 04:32:43
 Interval: **3107.00 ft (KB) To 3170.00 ft (KB) (TVD)**
 Total Depth: **3170.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**
 Tester: **Dan Bangle**
 Unit No: **21**

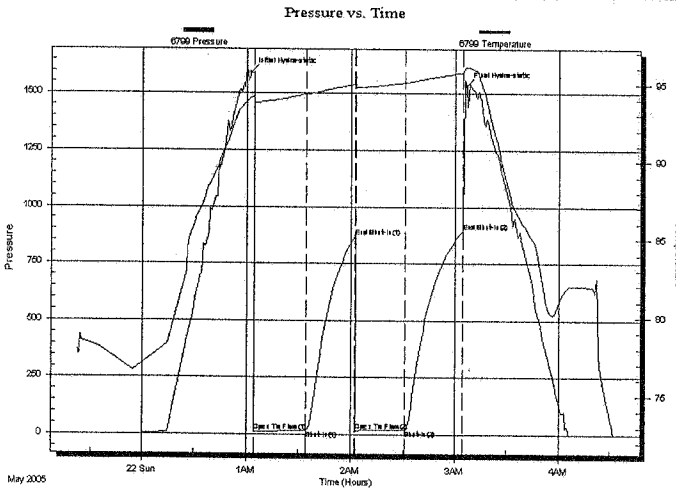
Reference Elevations: **1743.00 ft (KB)**
1738.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6799 **Inside**

Press@RunDepth: **22.12 psig @ 3110.00 ft (KB)**
 Start Date: **2005.05.21** End Date: **2005.05.22**
 Start Time: **23:22:44** End Time: **04:32:43**

Capacity: **7000.00 psig**
 Last Calib.: **2005.05.22**
 Time On Btm: **2005.05.22 @ 01:02:43**
 Time Off Btm: **2005.05.22 @ 03:06:13**

TEST COMMENT: **IF-Weak - Died in 10 min**
FF-No blow
Times-30-30-30-30



PRESSURE SUMMARY

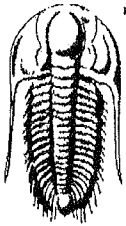
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.06	94.14	Initial Hydro-static
2	13.56	93.80	Open To Flow (1)
32	16.75	94.36	Shut-In(1)
59	867.68	94.97	End Shut-In(1)
60	18.83	94.79	Open To Flow (2)
88	22.12	95.08	Shut-In(2)
122	895.12	95.73	End Shut-In(2)
124	1533.22	96.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	DM	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

J O Farmer Inc

Weigel # 1

PO Box 352
Russell Ks 67665

7-12-13-Russell-Ks

Job Ticket: 22818

DST#: 3

ATTN: John Farmer

Test Start: 2005.05.21 @ 23:22:43

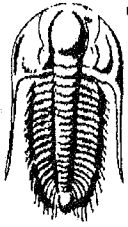
Tool Information

Drill Pipe:	Length: 2930.00 ft	Diameter: 3.80 inches	Volume: 41.10 bbl	Tool Weight: 2600.00 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 42.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3107.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	84.00 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			3087.00	
Shut In Tool	5.00			3092.00	
Hydraulic tool	5.00			3097.00	
Packer	5.00			3102.00	21.00 Bottom Of Top Packer
Packer	5.00			3107.00	
Stubb	1.00			3108.00	
Perforations	1.00			3109.00	
Change Over Sub	1.00			3110.00	
Recorder	0.00	6799	Inside	3110.00	
Drill Pipe	31.00			3141.00	
Change Over Sub	1.00			3142.00	
Recorder	0.00	13254	Outside	3142.00	
Perforations	25.00			3167.00	
Bullnose	3.00			3170.00	63.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

J O Farmer Inc

Weigel # 1

PO Box 352
Russell Ks 67665

7-12-13-Russell-Ks

Job Ticket: 22818

DST#: 3

ATTN: John Farmer

Test Start: 2005.05.21 @ 23:22:43

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	DM	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

