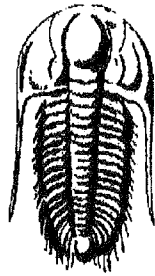


15-167-23486

36-13s-13w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave
Russell, KS 67665

CONFIDENTIAL
MAY 22 2008
KCC

ATTN: John Farmer IV

36 13 13 Russell KS

Shaffer A # 1

Start Date: 2008.02.20 @ 02:21:01

End Date: 2008.02.20 @ 08:59:01

Job Ticket #: 30310 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

Shaffer A # 1

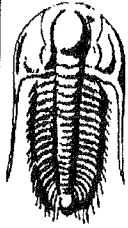
36 13 13 Russell KS

DST # 1

B

LKC

2008.02.20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

370 W Wichita Ave
Russell KS 67665

ATTN: John Farmer IV

Shaffer A # 1

36 13 13 Russell KS

Job Ticket: 30310

DST#: 1

Test Start: 2008.02.20 @ 02:21:01

GENERAL INFORMATION:

Formation: **B LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:16:01
 Time Test Ended: 08:59:01

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 38

Interval: **3020.00 ft (KB) To 3045.00 ft (KB) (TVD)**
 Total Depth: 3045.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1867.00 ft (KB)
 1859.00 ft (CF)
 KB to GR/CF: 8.00 ft

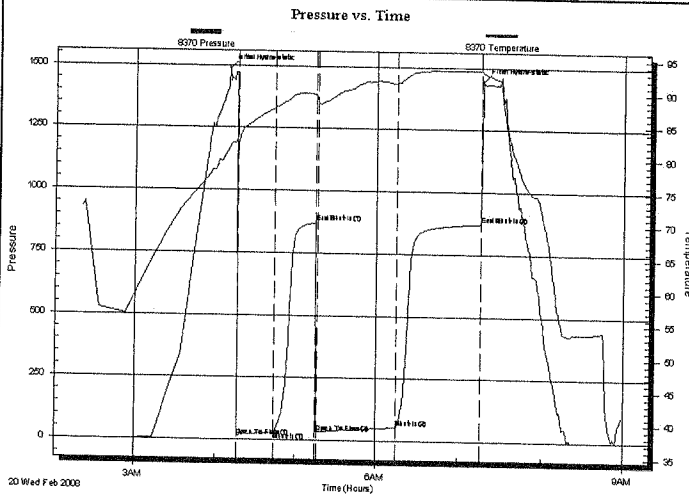
Serial #: 8370

Inside

Press@RunDepth: 54.49 psig @ 3021.00 ft (KB)
 Start Date: 2008.02.20 End Date: 2008.02.20
 Start Time: 02:21:02 End Time: 08:59:01

Capacity: 7000.00 psig
 Last Calib.: 2008.02.20
 Time On Btm: 2008.02.20 @ 04:09:31
 Time Off Btm: 2008.02.20 @ 07:17:01

TEST COMMENT: IF Weak building to strong blow BB in 30 min
 ISI No blow back
 FF Strong BB in 1 min
 FSI Weak steady 1/2 " blow



PRESSURE SUMMARY

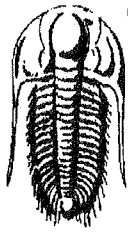
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1487.44	81.45	Initial Hydro-static
7	11.02	82.02	Open To Flow (1)
35	30.32	87.59	Shut-In(1)
65	871.46	89.65	End Shut-In(1)
66	30.47	88.62	Open To Flow (2)
125	54.49	91.49	Shut-In(2)
187	871.79	93.47	End Shut-In(2)
188	1446.08	93.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCO 20%M 80%O	1.47
0.00	682 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Shaffer A # 1

370 W Wichita Ave
Russell KS 67665

36 13 13 Russell KS

Job Ticket: 30310

DST#: 1

ATTN: John Farmer IV

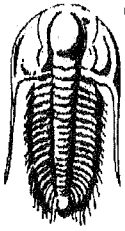
Test Start: 2008.02.20 @ 02:21:01

Tool Information

Drill Pipe:	Length: 2977.00 ft	Diameter: 3.80 inches	Volume: 41.76 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	41.91 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3020.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 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			3000.00	
Shut In Tool	5.00			3005.00	
Hydraulic tool	5.00			3010.00	
Packer	5.00			3015.00	21.00 Bottom Of Top Packer
Packer	5.00			3020.00	
Stubb	1.00			3021.00	
Recorder	0.00	8370	Inside	3021.00	
Recorder	0.00	8368	Outside	3021.00	
Perforations	21.00			3042.00	
Bullnose	3.00			3045.00	25.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Shaffer A # 1

370 W Wichita Ave
Russell KS 67665

36 13 13 Russell KS

Job Ticket: 30310

DST#: 1

ATTN: John Farmer IV

Test Start: 2008.02.20 @ 02:21:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 8.00 lb/gal

Viscosity: 40.00 sec/qt

Water Loss: 11.18 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCO 20%M 80%O	1.466
0.00	682 GIP	0.000

Total Length: 124.00 ft

Total Volume: 1.466 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8370

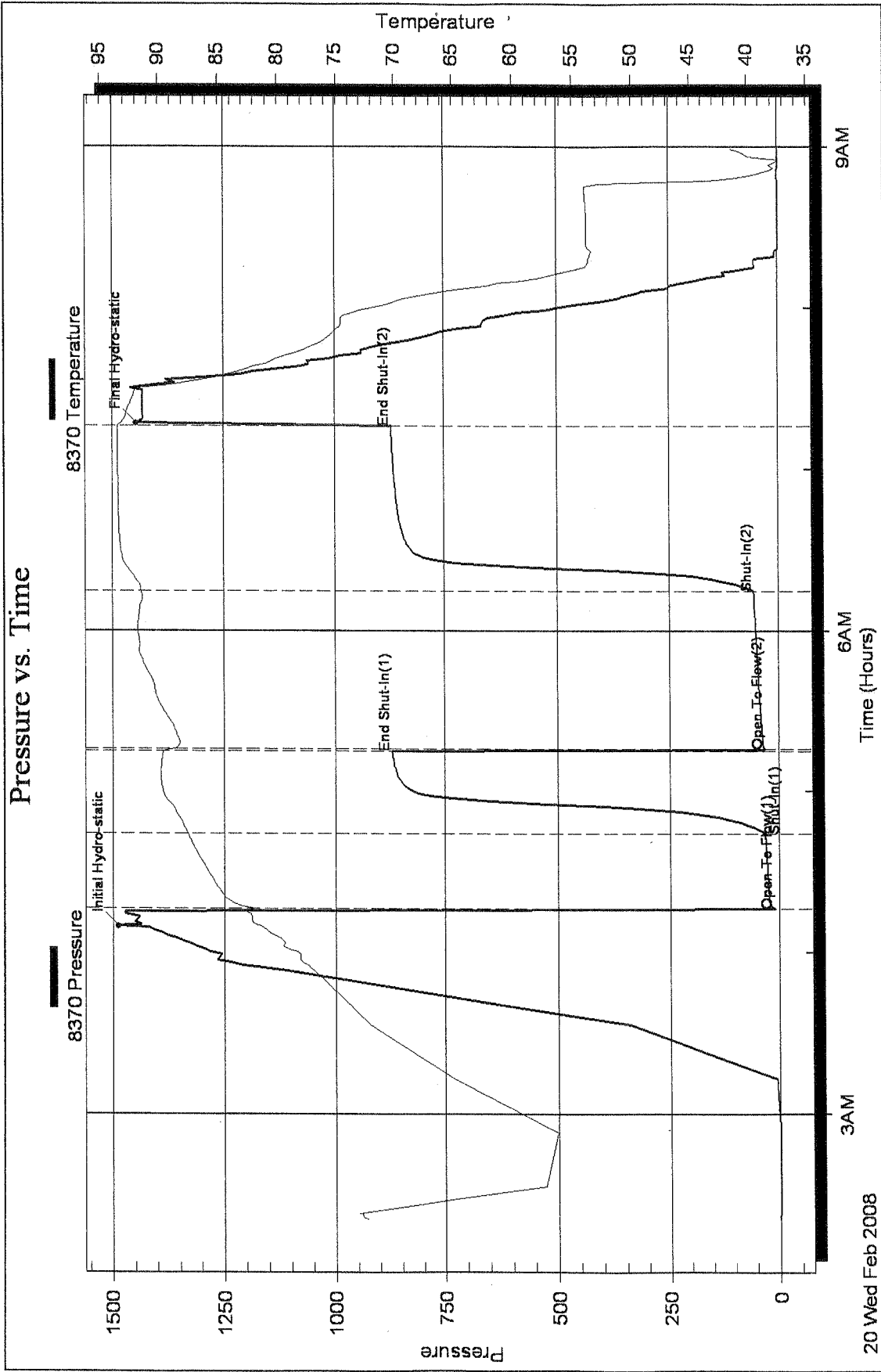
Inside

John O Farmer Inc

36 13 13 Russell KS

DST Test Number: 1

Pressure vs. Time

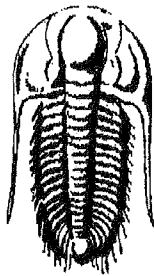


20 Wed Feb 2008

3AM

6AM

9AM



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave
Russell KS 67665

ATTN: John Farmer IV

36 13 13 Russell KS

Shaffer A # 1

Start Date: 2008.02.20 @ 13:53:41

End Date: 2008.02.20 @ 20:46:41

Job Ticket #: 30311 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

Shaffer A # 1

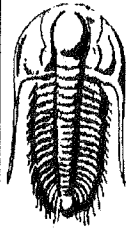
36 13 13 Russell KS

DST # 2

C

LKC

2008.02.20



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

370 W Wichita Ave
Russell KS 67665

ATTN: John Farmer IV

Shaffer A # 1

36 13 13 Russell KS

Job Ticket: 30311

DST#: 2

Test Start: 2008.02.20 @ 13:53:41

GENERAL INFORMATION:

Formation: **C LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:34:41

Time Test Ended: 20:46:41

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3045.00 ft (KB) To 3055.00 ft (KB) (TVD)

Total Depth: 3055.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1867.00 ft (KB)

1859.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8370

Inside

Press@RunDepth: 200.12 psig @ 3046.00 ft (KB)

Start Date: 2008.02.20

End Date: 2008.02.20

Start Time: 13:53:42

End Time: 20:46:41

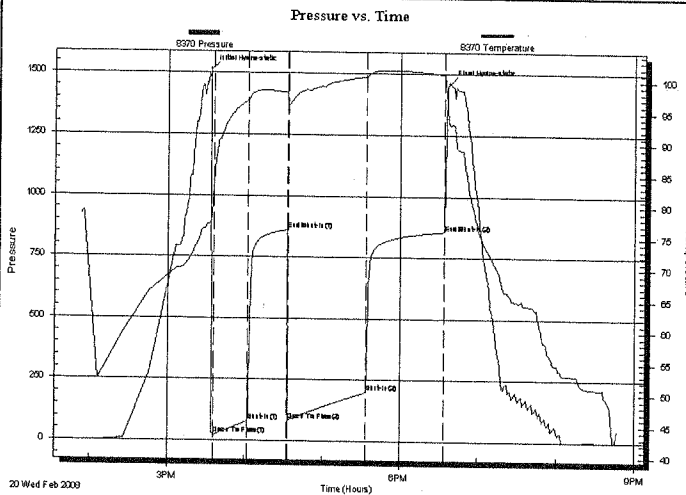
Capacity: 7000.00 psig

Last Calib.: 2008.02.20

Time On Btm: 2008.02.20 @ 15:33:11

Time Off Btm: 2008.02.20 @ 18:38:41

TEST COMMENT: IF Strong BB in 1 min
ISI Strong BB in 8 min
FF Strong BB in 5 min GTS 45 min into FF TSTM
FSI Strong BB in 15 min



PRESSURE SUMMARY

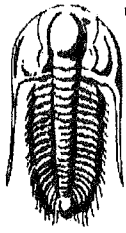
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1513.60	77.33	Initial Hydro-static
2	22.40	83.40	Open To Flow (1)
29	79.86	96.81	Shut-In(1)
60	860.23	98.07	End Shut-In(1)
61	84.61	95.98	Open To Flow (2)
121	200.12	100.59	Shut-In(2)
182	855.08	101.03	End Shut-In(2)
186	1460.27	92.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCGsyo 20%G 60%O 20%M	1.47
682.00	CGsyo 30%G 70%O	9.57
0.00	GTS	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Shaffer A # 1

370 W Wichita Ave
Russell KS 67665

36 13 13 Russell KS

Job Ticket: 30311

DST#: 2

ATTN: John Farmer IV

Test Start: 2008.02.20 @ 13:53:41

Tool Information

Drill Pipe:	Length: 3008.00 ft	Diameter: 3.80 inches	Volume: 42.19 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 42.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3045.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	31.00 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			3025.00	
Shut In Tool	5.00			3030.00	
Hydraulic tool	5.00			3035.00	
Packer	5.00			3040.00	21.00 Bottom Of Top Packer
Packer	5.00			3045.00	
Stubb	1.00			3046.00	
Recorder	0.00	8370	Inside	3046.00	
Recorder	0.00	8368	Outside	3046.00	
Perforations	6.00			3052.00	
Bullnose	3.00			3055.00	10.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Shaffer A # 1

370 W Wichita Ave
Russell KS 67665

36 13 13 Russell KS

Job Ticket: 30311

DST#: 2

ATTN: John Farmer IV

Test Start: 2008.02.20 @ 13:53:41

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 9.58 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

38 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCGsyO 20%G 60%O 20%M	1.466
682.00	CGsyO 30%G 70%O	9.567
0.00	GTS	0.000

Total Length: 806.00 ft

Total Volume: 11.033 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

