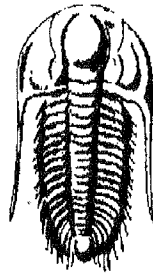


15-167-23562

2-15s-13w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc.**

370 W. Wichita Ave.
PO Box 352
Russell, KS 67665

CONFIDENTIAL

ATTN: Brad Hutchison *mm*

APR 07 2009

KCC

2 15S 13W Russell KS

Waymaster#1-2

Start Date: 2009.02.19 @ 04:05:21

End Date: 2009.02.19 @ 10:31:45

Job Ticket #: 35166 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O. Farmer Inc.

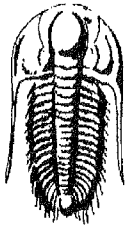
Waymaster#1-2

2 15S 13W Russell KS

DST # 1

LKC

2009.02.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer Inc.
370 W. Wichita Ave.
PO Box 352
Russell, KS 67665
ATTN: Brad Hutchison

Waymaster#1-2
2 15S 13W Russell KS
Job Ticket: 35166 **DST#: 1**
Test Start: 2009.02.19 @ 04:05:21

GENERAL INFORMATION:

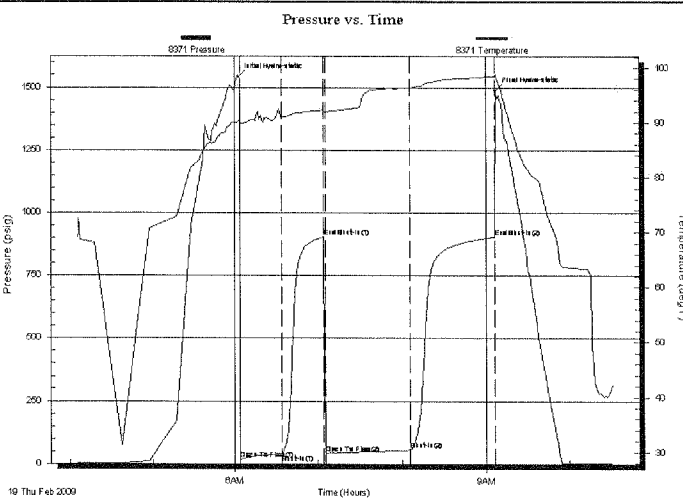
Formation: **LKC**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 06:04:16
Time Test Ended: 10:31:45
Interval: **3115.00 ft (KB) To 3180.00 ft (KB) (TVD)**
Total Depth: 3180.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brett Dickinson/Bria
Unit No: 41
Reference Elevations: 1799.00 ft (KB)
1791.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8371

Inside

Press@RunDepth: 54.92 psig @ 3143.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2009.02.19 End Date: 2009.02.19 Last Calib.: 2009.02.19
Start Time: 04:05:21 End Time: 10:31:45 Time On Btm: 2009.02.19 @ 06:02:46
Time Off Btm: 2009.02.19 @ 09:06:45

TEST COMMENT: IF- 3.75in blow
IS- No blow
FF- 3.25in blow
FSI- No blow



PRESSURE SUMMARY

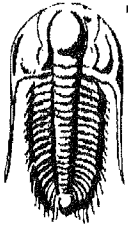
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.47	90.25	Initial Hydro-static
2	18.49	89.72	Open To Flow (1)
32	39.30	91.04	Shut-In (1)
62	904.19	92.27	End Shut-In (1)
63	42.89	91.95	Open To Flow (2)
123	54.92	96.37	Shut-In (2)
184	904.26	98.45	End Shut-In (2)
184	1487.22	98.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbi)
60.00	VSWCM 5%W, 95%M	0.56
25.00	VSOCM 5%O, 95%M	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc.

Waymaster#1-2

370 W. Wichita Ave.

2 15S 13W Russell KS

PO Box 352

Job Ticket: 35166

DST#: 1

Russell, KS 67665

ATTN: Brad Hutchison

Test Start: 2009.02.19 @ 04:05:21

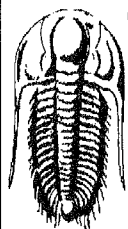
Tool Information

Drill Pipe:	Length: 3071.00 ft	Diameter: 3.80 inches	Volume: 43.08 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3115.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	85.00 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			3100.00	
Hydraulic tool	5.00			3105.00	
Packer	5.00			3110.00	20.00 Bottom Of Top Packer
Packer	5.00			3115.00	
Stubb	1.00			3116.00	
Perforations	27.00			3143.00	
Recorder	0.00	8018	Inside	3143.00	
Recorder	0.00	8371	Inside	3143.00	
Change Over Sub	1.00			3144.00	
Blank Spacing	32.00			3176.00	
Change Over Sub	1.00			3177.00	
Bullnose	3.00			3180.00	65.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc.
370 W. Wichita Ave.
PO Box 352
Russell, KS 67665
ATTN: Brad Hutchison

Waymaster#1-2
2 15S 13W Russell KS
Job Ticket: 35166 **DST#: 1**
Test Start: 2009.02.19 @ 04:05:21

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:	28000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.55 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: inches			

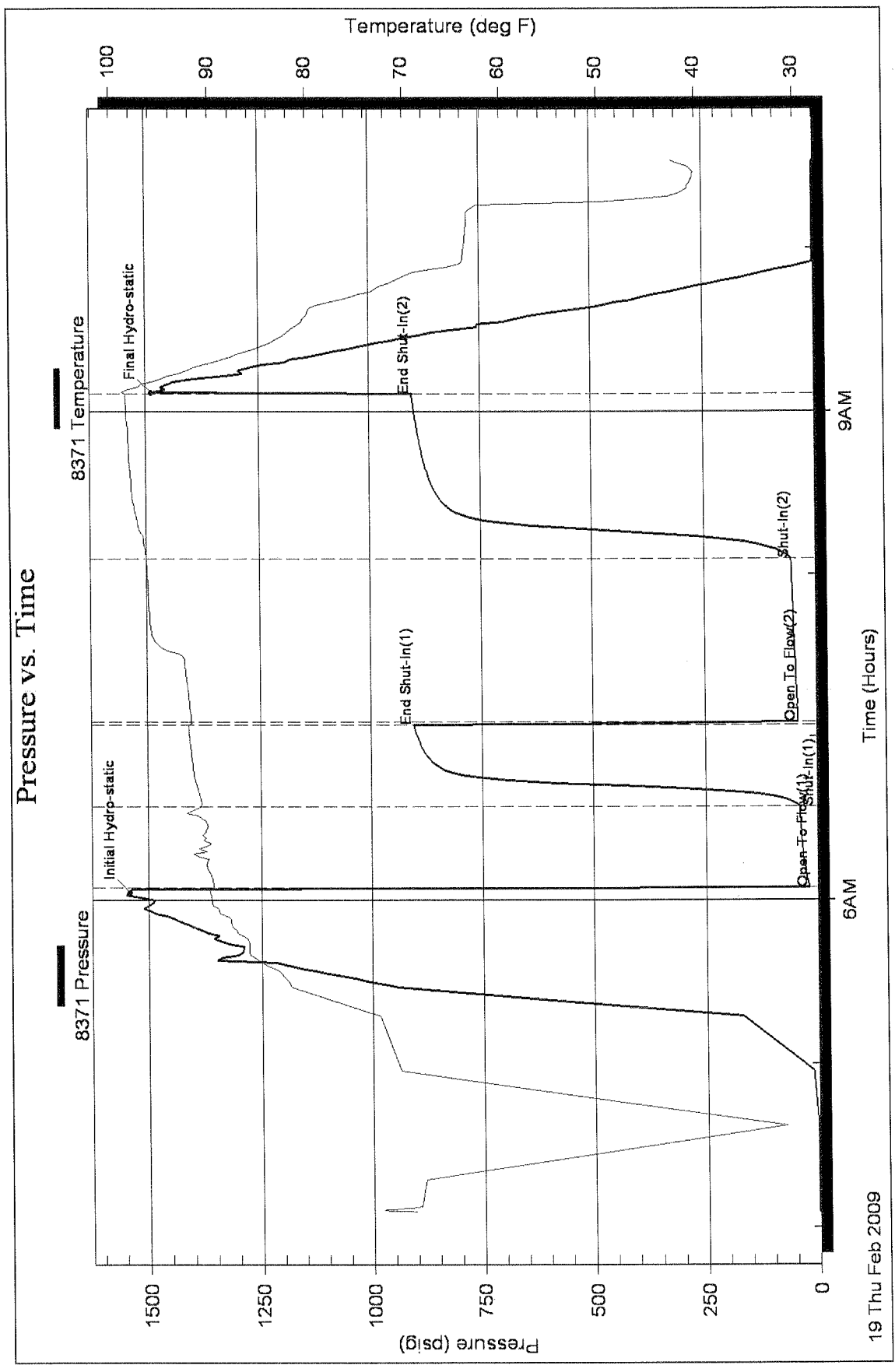
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VSWCM 5%W, 95%M	0.559
25.00	VSOCM 5%O, 95%M	0.351

Total Length: 85.00 ft Total Volume: 0.910 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



19 Thu Feb 2009

6AM

9AM