

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **IA Operating**

900 NTyler Rd Ste 14
Wichita KS 67212

ATTN: Hal Porter

36 8 26W Sheridan KS

Cottonwood # 36-1

Start Date: 2006.09.10 @ 16:50:55

End Date: 2006.09.10 @ 21:16:10

Job Ticket #: 25674 DST #: 1

15-179-21159-00-00

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OCT 19 2006

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC.

DRILL STEM TEST REPORT

IA Operating

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ATTN: Hal Porter

Cottonwood # 36-1

36 8 26W Sheridan KS

Job Ticket: 25674

DST#: 1

Test Start: 2006.09.10 @ 16:50:55

GENERAL INFORMATION:

Formation: **L.Kc.-H**

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

Time Tool Opened: 18:31:40

Time Test Ended: 21:16:10

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **35**

Interval: **3845.00 ft (KB) To 3876.00 ft (KB) (TVD)**

Total Depth: **3876.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2443.00 ft (KB)**

2438.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **15.81 psig @ 3848.00 ft (KB)**

Start Date: **2006.09.10**

End Date:

2006.09.10

Capacity: **7000.00 psig**

Last Calib.: **2006.09.10**

Start Time: **16:51:00**

End Time:

21:16:09

Time On Btmr: **2006.09.10 @ 18:31:25**

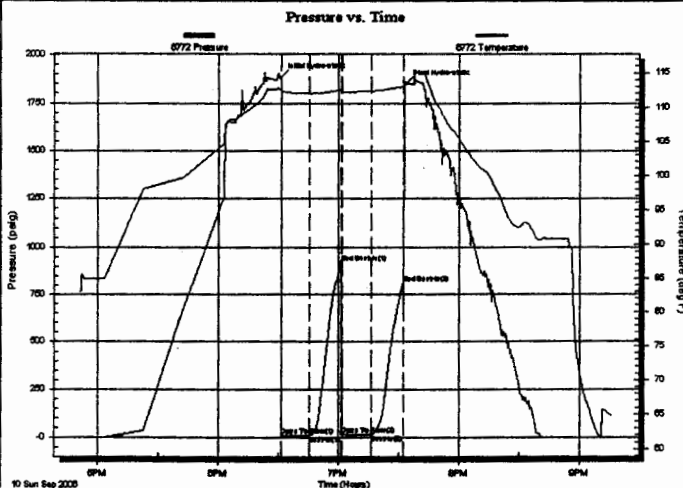
Time Off Btmr: **2006.09.10 @ 19:33:40**

TEST COMMENT: **IF Weak Dead in 4 min.**

ISI Dead

FF Dead

FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.54	112.62	Initial Hydro-static
1	11.12	111.95	Open To Flow (1)
15	13.99	111.95	Shut-In (1)
30	917.41	112.43	End Shut-In (1)
31	14.33	112.23	Open To Flow (2)
45	15.81	112.33	Shut-In (2)
61	809.12	112.97	End Shut-In (2)
63	1852.89	113.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	D.Mud few Oil spots	0.01

Gas Rates

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

IA Operating

900 N Tyler Rd Ste 14
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ATTN: Hal Porter

Cottonwood # 36-1

36 8 26W Sheridan KS

Job Ticket: 25674

DST#: 1

Test Start: 2006.09.10 @ 16:50:55

Tool Information

Drill Pipe:	Length: 3826.00 ft	Diameter: 3.80 inches	Volume: 53.67 bbl	Tool Weight:	2200.00 lb		
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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:	65000.00 lb		
			Total Volume:	53.82 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	54000.00 lb	Final	54000.00 lb
Depth to Top Packer:	3845.00 ft						
Depth to Bottom Packer:	ft						
Interval between Packers:	33.00 ft						
Tool Length:	53.00 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			3826.00	
Shut In Tool	5.00			3831.00	
Hydraulic tool	5.00			3836.00	
Packer	5.00			3841.00	20.00 Bottom Of Top Packer
Packer	4.00			3845.00	
Stubb	1.00			3846.00	
Perforations	2.00			3848.00	
Recorder	0.00	6772	Inside	3848.00	
Perforations	25.00			3873.00	
Recorder	0.00	7437	Outside	3873.00	
Bullnose	5.00			3878.00	33.00 Bottom Packers & Anchor

Total Tool Length: 53.00

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FLUID SUMMARY

IA Operating

Cottonwood # 36-1

900 N Tyler Rd Ste 14
Wichita KS 67212

36 8 26W Sheridan KS

Job Ticket: 25674

DST#: 1

ATTN: Hal Porter

Test Start: 2006.09.10 @ 16:50:55

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 93.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	D.Mud few Oil spots	0.015

Total Length:

3.00 ft

Total Volume:

0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

Inside

IA Operating

36 8 26W Sheridan KS

DST Test Number: 1

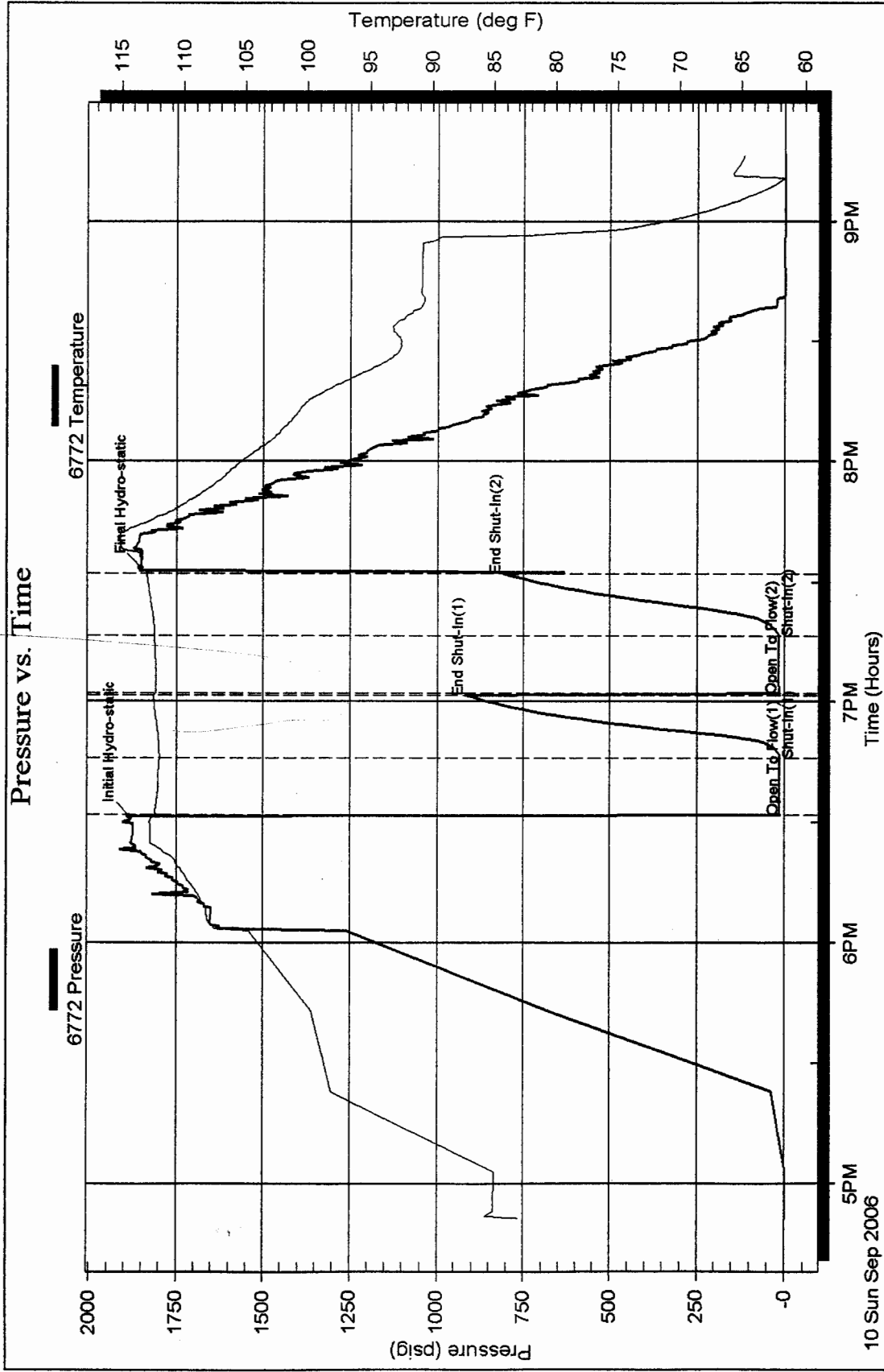


CHART PAGE

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

