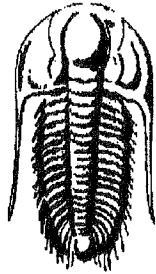


15-135-24765

9-20s-21w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Steve Murphy

9 20 21W Ness KS

KB Unit #1

Start Date: 2008.04.26 @ 01:16:19

End Date: 2008.04.26 @ 08:53:17

Job Ticket #: 31096

DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

CONFIDENTIAL
JUN 23 2008
KCC

John O Farmer

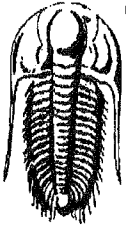
KB Unit #1

9 20 21W Ness KS

DST # 1

Mississippi

2008.04.26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer

KB Unit #1

PO Box 352
Russell KS 67665

9 20 21W Ness KS

Job Ticket: 31096

DST#: 1

ATTN: Steve Murphy

Test Start: 2008.04.26 @ 01:16:19

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:33:47

Time Test Ended: 08:53:17

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **4420.00 ft (KB) To 4445.00 ft (KB) (TVD)**

Total Depth: 4445.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2277.00 ft (KB)

2270.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6719

Outside

Press@RunDepth: 82.57 psig @ 4422.00 ft (KB)

Start Date: 2008.04.26

End Date:

2008.04.26

Capacity: 7000.00 psig

Last Calib.: 2008.04.26

Start Time: 01:16:19

End Time:

08:53:17

Time On Btm: 2008.04.26 @ 03:31:17

Time Off Btm: 2008.04.26 @ 06:38:17

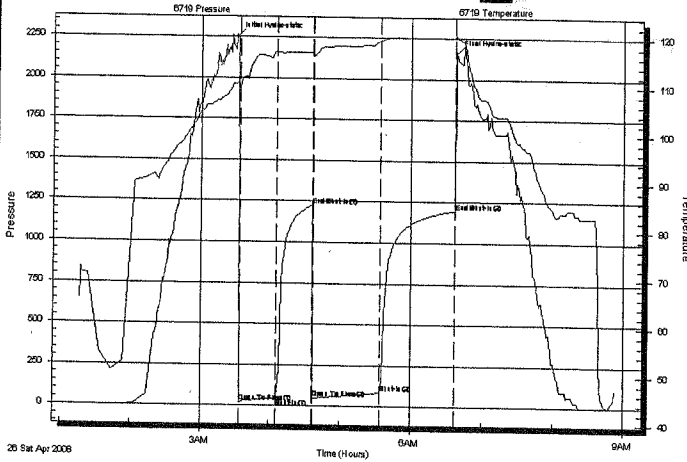
TEST COMMENT: IFP Fair blow built to 8-1/2 "

ISI Dead

FFP Good blow BOB in 55 Min.

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

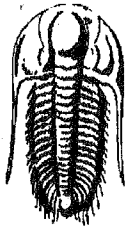
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2252.16	110.54	Initial Hydro-static
3	18.59	109.60	Open To Flow (1)
34	45.17	117.08	Shut-In(1)
65	1223.15	116.92	End Shut-In(1)
66	49.12	116.42	Open To Flow (2)
123	82.57	119.35	Shut-In(2)
186	1196.39	120.17	End Shut-In(2)
187	2157.43	120.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	MCO 50%O 50%M trace w /Water	0.77
105.00	Free Oil	1.47
0.00	120' 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

KB Unit #1

PO Box 352
Russell KS 67665

9 20 21W Ness KS

Job Ticket: 31096

DST#: 1

ATTN: Steve Murphy

Test Start: 2008.04.26 @ 01:16:19

Tool Information

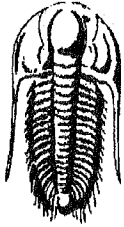
Drill Pipe:	Length: 4372.00 ft	Diameter: 3.80 inches	Volume: 61.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 61.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4420.00 ft			Final 60000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4400.00	
Shut In Tool	5.00			4405.00	
Hydraulic tool	5.00			4410.00	
Packer	5.00			4415.00	21.00 Bottom Of Top Packer
Packer	5.00			4420.00	
Stubb	1.00			4421.00	
Perforations	1.00			4422.00	
Recorder	0.00	8360	Inside	4422.00	
Recorder	0.00	6719	Outside	4422.00	
Perforations	20.00			4442.00	
Bullnose	3.00			4445.00	25.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

KB Unit #1

PO Box 352
Russell KS 67665

9 20 21W Ness KS

Job Ticket: 31096

DST#: 1

ATTN: Steve Murphy

Test Start: 2008.04.26 @ 01:16:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
75.00	MCO 50%O 50%M trace w/Water	0.770
105.00	Free Oil	1.473
0.00	120' GIP	0.000

Total Length: 180.00 ft Total Volume: 2.243 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

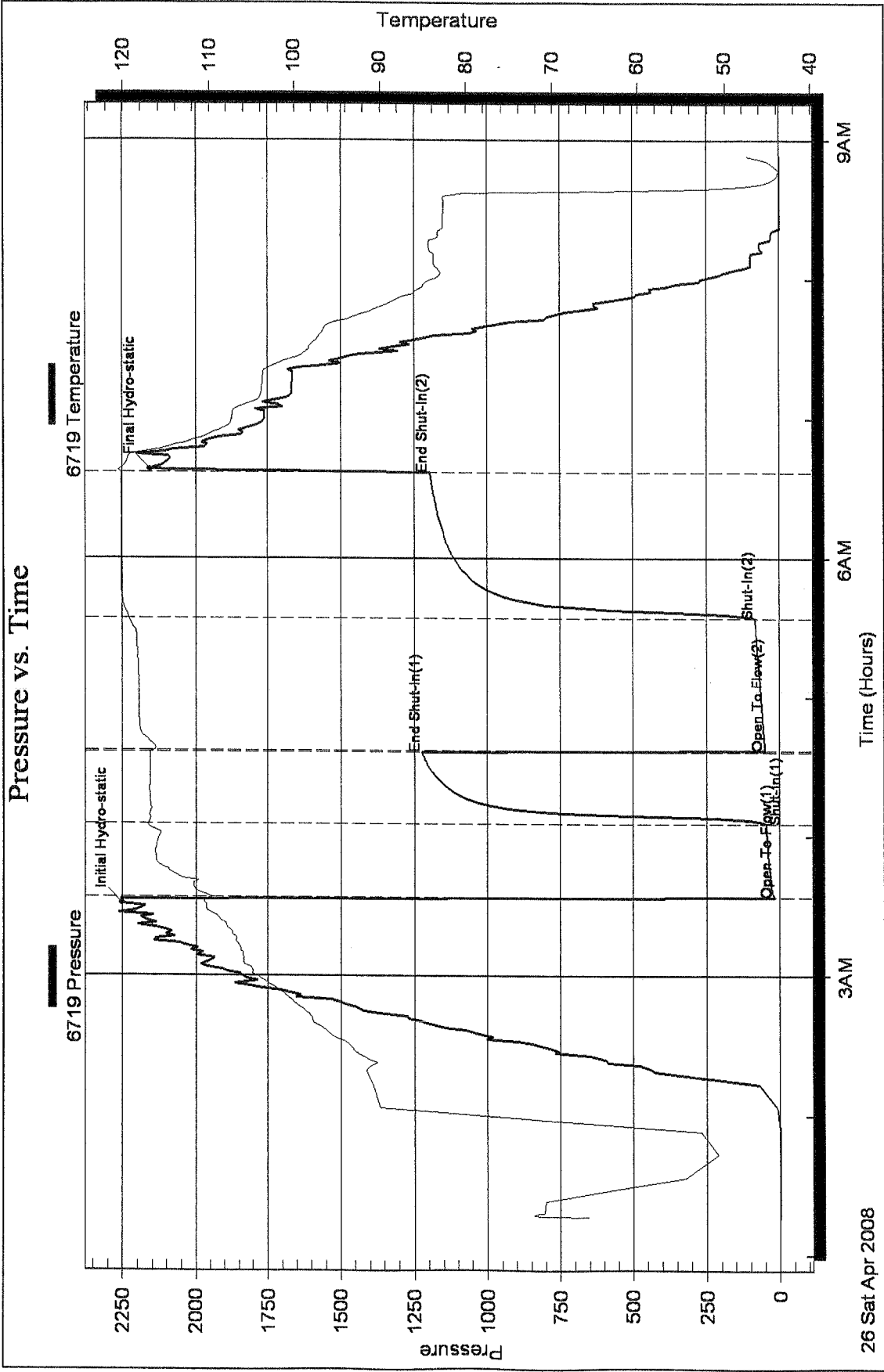
Serial #:

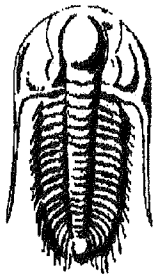
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Steve Murphy

9 20 21W Ness KS

KB Unit #1

Start Date: 2008.04.26 @ 15:04:15

End Date: 2008.04.26 @ 19:23:15

Job Ticket #: 31097 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer

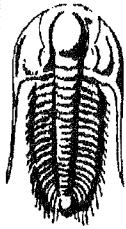
KB Unit #1

9 20 21W Ness KS

DST # 2

Mississippi

2008.04.26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer

KB Unit #1

PO Box 352
Russell KS 67665

9 20 21W Ness KS

ATTN: Steve Murphy

Job Ticket: 31097

DST#: 2

Test Start: 2008.04.26 @ 15:04:15

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:00:15

Time Test Ended: 19:23:15

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **4436.00 ft (KB) To 4450.00 ft (KB) (TVD)**

Total Depth: 4450.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2277.00 ft (KB)

2270.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8360

Inside

Press@RunDepth: psig @ 4438.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2008.04.26

End Date: 2008.04.26

Last Calib.: 2008.04.26

Start Time: 15:04:17

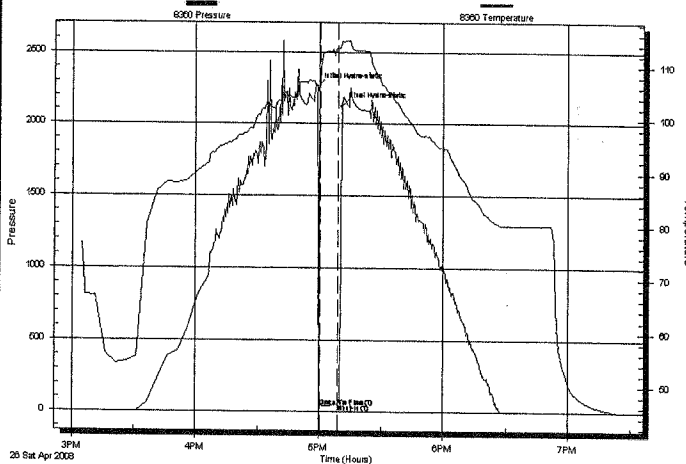
End Time: 19:23:15

Time On Btm: 2008.04.26 @ 16:59:15

Time Off Btm: 2008.04.26 @ 17:10:45

TEST COMMENT: IFP Built to 4" losing mud packer failure pull tool after 10 min.
mud would drop 5-10' would get surge in bucket then no blow increase until mud suddenly dropped
another 5-10' in hole

Pressure vs. Time



PRESSURE SUMMARY

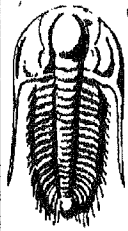
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.90	106.53	Initial Hydro-static
1	35.19	107.34	Open To Flow (1)
10	55.10	113.63	Shut-In (1)
12	2123.05	114.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	HOCM 30%O 70%M	1.40

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

KB Unit #1

PO Box 352
Russell KS 67665

9 20 21W Ness KS

Job Ticket: 31097

DST#: 2

ATTN: Steve Murphy

Test Start: 2008.04.26 @ 15:04:15

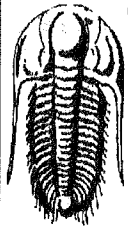
Tool Information

Drill Pipe:	Length: 4402.00 ft	Diameter: 3.80 inches	Volume: 61.75 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 58000.00 lb
		Total Volume:	61.90 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4436.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	35.00 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			4416.00	
Shut In Tool	5.00			4421.00	
Hydraulic tool	5.00			4426.00	
Packer	5.00			4431.00	21.00 Bottom Of Top Packer
Packer	5.00			4436.00	
Stubb	1.00			4437.00	
Perforations	1.00			4438.00	
Recorder	0.00	8360	Inside	4438.00	
Recorder	0.00	6719	Outside	4438.00	
Perforations	9.00			4447.00	
Bullnose	3.00			4450.00	14.00 Bottom Packers & Anchor

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

KB Unit #1

PO Box 352
Russell KS 67665

9 20 21W Ness KS

Job Ticket: 31097

DST#: 2

ATTN: Steve Murphy

Test Start: 2008.04.26 @ 15:04:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 10.37 in³

Resistivity: ohm.m

Salinity: 4100.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	HOCM 30%O 70%M	1.401

Total Length: 120.00 ft

Total Volume: 1.401 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

