

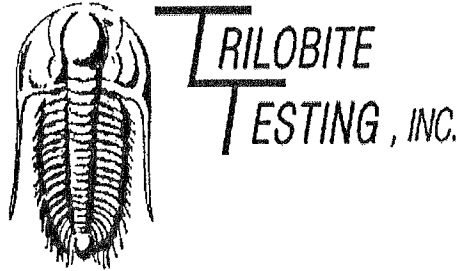
15-185-23246

24-24s-15w

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JUL 15 2004

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Phillips Explorations Company**

4109 N Ironwood
Wichita, KS 67226

ATTN: Joe Baker

24-24s-15w Safford

Suiter C-A #2

Start Date: 2004.04.19 @ 13:46:26

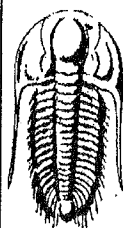
End Date: 2004.04.19 @ 22:03:56

Job Ticket #: 18972 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Phillips Explorations Company

4109 N Ironwood
Wichita, KS 67226

ATTN: Joe Baker

Suiter C-A #2

24-24s-15w Safford

Job Ticket: 18972

DST#: 1

Test Start: 2004.04.19 @ 13:46:26

GENERAL INFORMATION:

Formation: **Kinderhook Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:29:26

Time Test Ended: 22:03:56

Test Type: Conventional Bottom Hole

Tester: Nathan

Unit No: 20

Interval: **4076.00 ft (KB) To 4130.00 ft (KB) (TVD)**

Total Depth: 4130.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2008.00 ft (KB)

2002.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6751 Inside

Press@RunDepth: 70.64 psig @ 4112.00 ft (KB)

Start Date: 2004.04.19

End Date: 2004.04.19

Start Time: 13:46:36

End Time: 22:03:56

Capacity: 7000.00 psig

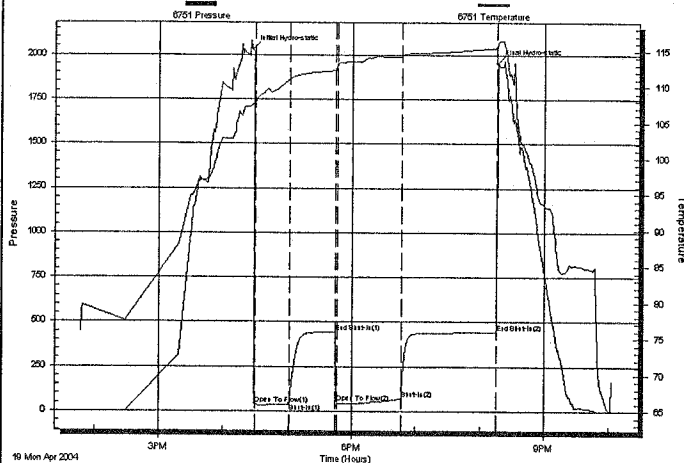
Last Calib.: 1899.12.30

Time On Btm: 2004.04.19 @ 16:26:36

Time Off Btm: 2004.04.19 @ 20:15:46

TEST COMMENT: IF- Fair blow building O.B.B. in 13 minutes 45 seconds
IS- No blow
FF- Strong blow O.B.B. ASAT opened; GTS in 23 minutes
FSI- No blow

Pressure vs. Time



PRESSURE SUMMARY

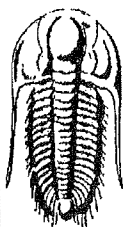
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.81	107.55	Initial Hydro-static
3	35.32	107.74	Open To Flow (1)
35	40.64	111.04	Shut-In(1)
78	441.81	112.28	End Shut-In(1)
80	46.24	113.22	Open To Flow (2)
140	70.64	114.22	Shut-In(2)
229	441.25	115.45	End Shut-In(2)
230	1953.58	116.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Drig Mud	1.12

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.00	6.14
Last Gas Rate	0.13	12.50	10.07
Max. Gas Rate	0.13	12.50	10.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Phillips Explorations Company

Suiter C-A #2

4109 N Ironwood
Wichita, KS 67226

24-24s-15w Safford

Job Ticket: 18972

DST#: 1

ATTN: Joe Baker

Test Start: 2004.04.19 @ 13:46:26

Tool Information

Drill Pipe:	Length: 4076.00 ft	Diameter: 3.80 inches	Volume: 57.18 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 57.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4076.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

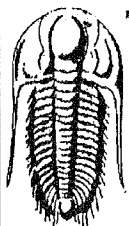
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4057.00	
Shut In Tool	5.00			4062.00	
Hydraulic tool	5.00			4067.00	
Packer	4.00			4071.00	20.00 Bottom Of Top Packer
Packer	5.00			4076.00	
Stubb	1.00			4077.00	
Perforations	2.00			4079.00	
Change Over Sub	1.00			4080.00	
Blank Spacing	31.00			4111.00	
Change Over Sub	1.00			4112.00	
Recorder	0.00	6751	Inside	4112.00	
Perforations	15.00			4127.00	
Recorder	0.00	13630	Outside	4127.00	
Bullnose	3.00			4130.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00

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CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Phillips Explorations Company

Suiter C-A #2

4109 N Ironwood
Wichita, KS 67226

24-24s-15w Safford

Job Ticket: 18972

DST#: 1

ATTN: Joe Baker

Test Start: 2004.04.19 @ 13:46:26

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:

10000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.72 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 14000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	Drig Mud	1.122

Total Length: 80.00 ft

Total Volume: 1.122 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Phillips Explorations Company

Suiter C-A #2

4109 N Ironwood
Wichita, KS 67226

24-24s-15w Safford

Job Ticket: 18972

DST#: 1

ATTN: Joe Baker

Test Start: 2004.04.19 @ 13:46:26

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	30	0.13	2.00	6.14
2	30	0.13	2.00	6.14
2	40	0.13	8.00	8.38
2	50	0.13	12.50	10.07

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WICHITA, KS

DST Test Number: 1

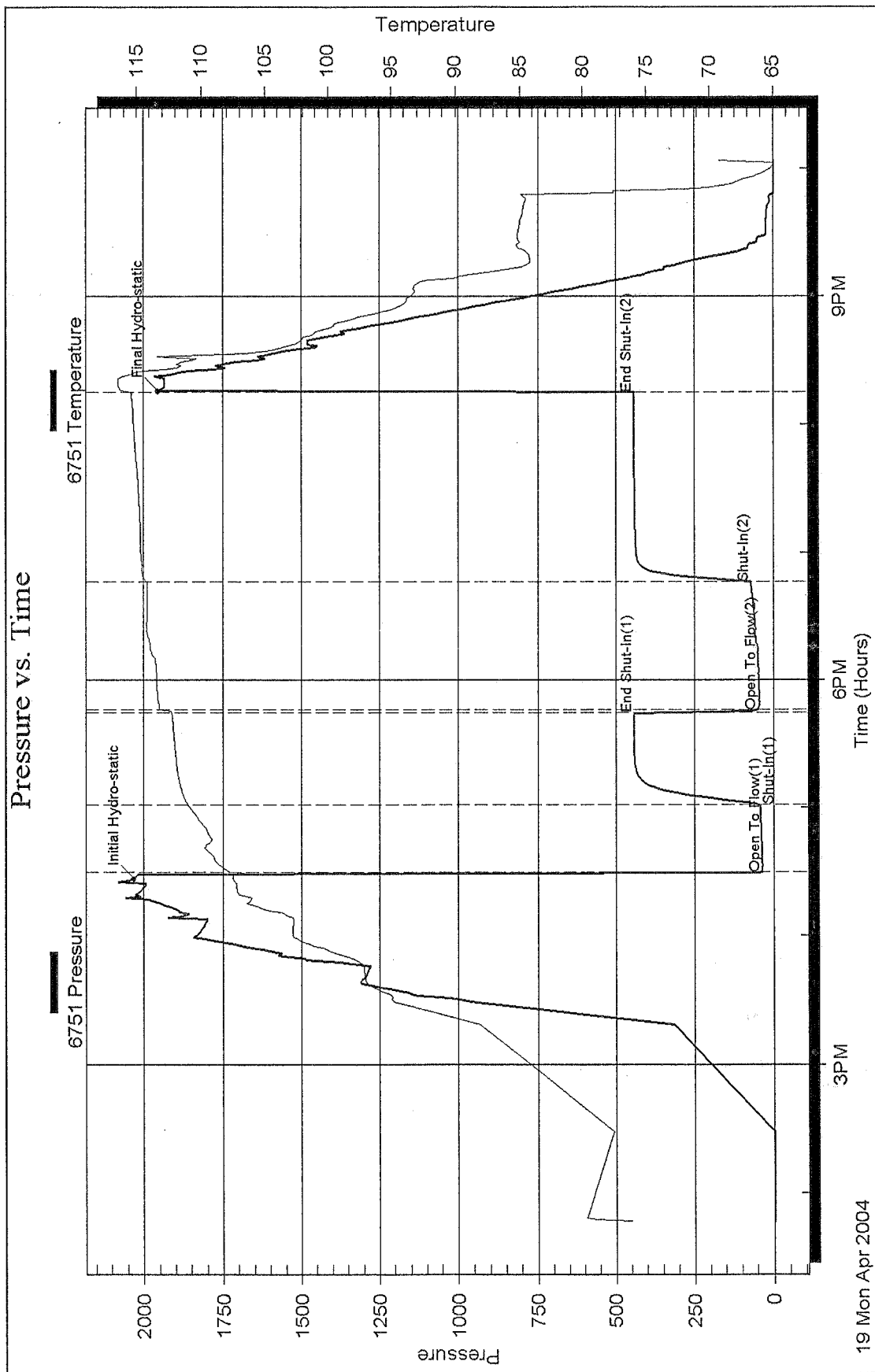
24-24s-15w Safford

Phillips Explorations Company

Inside

Serial #: 6751

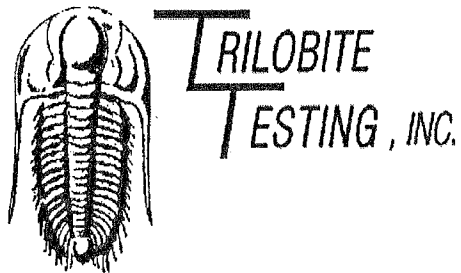
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 18972

Printed: 2004.04.27 @ 15:21:35 Page 6



DRILL STEM TEST REPORT

Prepared For: **Phillips Explorations Company**

4109 N Ironwood
Wichita, KS 67226

ATTN: Joe Baker

24-24s-15w Safford

Suiter C-A #2

Start Date: 2004.04.20 @ 07:59:19

End Date: 2004.04.20 @ 14:12:39

Job Ticket #: 18973 DST #: 2.

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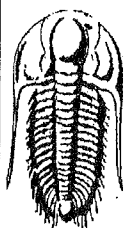
JUL 15 2004

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Phillips Explorations Company

4109 N Ironwood
Wichita, KS 67226

ATTN: Joe Baker

Suiter C-A #2

24-24s-15w Safford

Job Ticket: 18973

DST#: 2

Test Start: 2004.04.20 @ 07:59:19

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:44:19

Time Test Ended: 14:12:39

Test Type: Conventional Bottom Hole

Tester: Nathan

Unit No: 16

Interval: **4185.00 ft (KB) To 4195.00 ft (KB) (TVD)**

Total Depth: 4195.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2008.00 ft (KB)

2002.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6751

Inside

Press@RunDepth: 15.78 psig @ 4186.00 ft (KB)

Start Date: 2004.04.20

End Date:

2004.04.20

Start Time: 07:59:29

End Time:

14:12:38

Capacity: 7000.00 psig

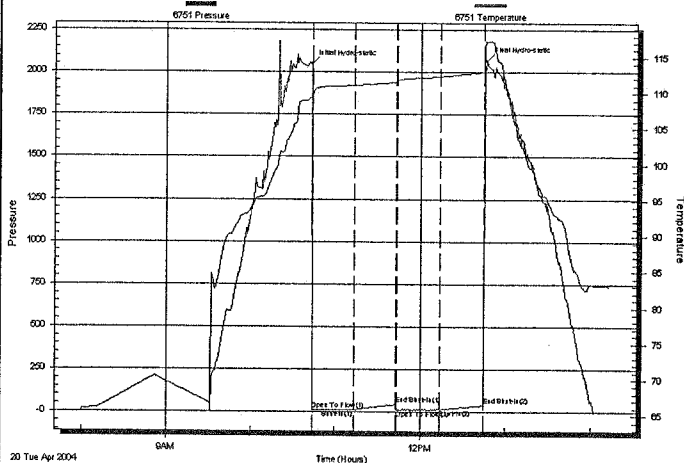
Last Calib.: 1899.12.30

Time On Btm: 2004.04.20 @ 10:43:19

Time Off Btm: 2004.04.20 @ 12:46:39

TEST COMMENT: IF- Weak blow building to 3 inches
IS- No blow
FF- Weak surface blow building to 1/2 inch
FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2047.67	109.48	Initial Hydro-static
1	14.21	109.77	Open To Flow (1)
31	12.95	111.10	Shut-In (1)
60	44.02	111.54	End Shut-In (1)
61	12.60	111.56	Open To Flow (2)
91	15.78	112.35	Shut-In (2)
122	38.88	112.97	End Shut-In (2)
124	2067.25	117.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drilg Mud (very few specs of oil in sam)	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Phillips Explorations Company

Suiter C-A #2

4109 N Ironwood
Wichita, KS 67226

24-24s-15w Safford

Job Ticket: 18973

DST#: 2

ATTN: Joe Baker

Test Start: 2004.04.20 @ 07:59:19

Tool Information

Drill Pipe:	Length: 4197.00 ft	Diameter: 3.80 inches	Volume: 58.87 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 86000.00 lb
			Total Volume: 58.87 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4185.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	30.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4166.00	
Shut In Tool	5.00			4171.00	
Hydraulic tool	5.00			4176.00	
Packer	4.00			4180.00	20.00 Bottom Of Top Packer
Packer	5.00			4185.00	
Stubb	1.00			4186.00	
Recorder	0.00	6751	Inside	4186.00	
Perforations	6.00			4192.00	
Recorder	0.00	13630	Outside	4192.00	
Bullnose	3.00			4195.00	10.00 Bottom Packers & Anchor
Total Tool Length:		30.00			

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KANSAS CORPORATION COMMISSION

JUL 15 2004

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Phillips Explorations Company

Suiter C-A #2

4109 N Ironwood
Wichita, KS 67226

24-24s-15w Safford

Job Ticket: 18973

DST#: 2

ATTN: Joe Baker

Test Start: 2004.04.20 @ 07:59:19

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:

18000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 16000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drilg Mud (very few specs of oil in sam	0.281

Total Length: 20.00 ft

Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

JUL 15 2004

CONSERVATION DIVISION
WICHITA, KS

DST Test Number: 2

24-24s-15w Safford

Phillips Explorations Company

Inside

Serial #: 6751

Pressure vs. Time

