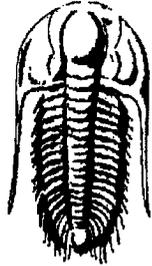


11-13s-17w

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TRILOBITE
TESTING, INC.

John O Farmer

Schumacher #1

11-13s-17w-Ellis

DST # 1

LKC

2003.10.19

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS. 67665

KCC

DEC 18 2003
ATTN: Mr. Drilling

CONFIDENTIAL 11-17w-Ellis

Schumacher #1

Start Date: 2003.10.19 @ 21:40:34

End Date: 2003.10.20 @ 03:10:04

Job Ticket #: 18187 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

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-Ellis

ATTN: Matt Dreiling

Job Ticket: 18187

DST#: 1

Test Start: 2003.10.19 @ 21:40:34

GENERAL INFORMATION:

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

Time Tool Opened: 23:24:19

Time Test Ended: 03:10:04

Interval: **3242.00 ft (KB) To 3325.00 ft (KB) (TVD)**

Total Depth: **3325.00 ft (KB) (TVD)**

Hole Diameter: **6.80 inches** Hole Condition: **Good**

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Test Type: **Conventional Bottom Hole**

Tester: **Jason Mclemore**

Unit No: **24**

Reference Elevations: **2025.00 ft (KB)**

2013.00 ft (CF)

KB to GR/CF: **12.00 ft**

Serial #: 6752

Inside

Press@RunDepth: **40.67 psig @ 3249.00 ft (KB)**

Start Date: **2003.10.19**

Start Time: **21:40:35**

End Date:

End Time:

2003.10.20

03:10:04

Capacity: **7000.00 psig**

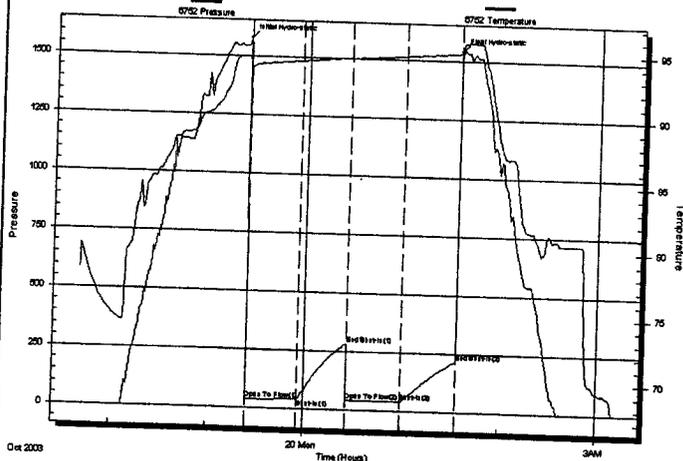
Last Calib.: **1899.12.30**

Time On Btm: **2003.10.19 @ 23:23:49**

Time Off Btm: **2003.10.20 @ 01:33:34**

TEST COMMENT: **IFP- No Blow,
FFP- No Blow**

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1578.86	94.00	Initial Hydro-static
1	37.50	93.59	Open To Flow (1)
32	39.38	94.22	Shut-In(1)
62	281.13	94.53	End Shut-In(1)
63	39.59	94.46	Open To Flow(2)
96	40.67	94.74	Shut-In(2)
130	216.85	95.05	End Shut-In(2)
130	1542.68	95.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-Ellis

Job Ticket: 18187

DST#: 1

ATTN: Matt Dreiling

Test Start: 2003.10.19 @ 21:40:34

Tool Information

Drill Pipe:	Length: 3204.00 ft	Diameter: 3.80 inches	Volume: 44.94 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 48000.00 lb
		Total Volume: 45.09 bbl		Tool Chased 10.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3242.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3222.00	
Shut In Tool	5.00			3227.00	
Hydraulic tool	5.00			3232.00	
Packer	5.00			3237.00	21.00 Bottom Of Top Packer
Packer	5.00			3242.00	
Stubb	1.00			3243.00	
Perforations	5.00			3248.00	
Change Over Sub	1.00			3249.00	
Recorder	0.00	6752	Inside	3249.00	
Blank Spacing	62.00			3311.00	
Change Over Sub	1.00			3312.00	
Perforations	10.00			3322.00	
Recorder	0.00	13252	Outside	3322.00	
Bullnose	3.00			3325.00	83.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer
PO Box 352
Russell KS. 67665
ATTN: Matt Dreiling

Schumacher #1
11-13s-17w-Ellis
Job Ticket: 18187 **DST#: 1**
Test Start: 2003.10.19 @ 21:40:34

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:	ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud	0.559

Total Length: 60.00 ft Total Volume: 0.559 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

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Serial #: 6752

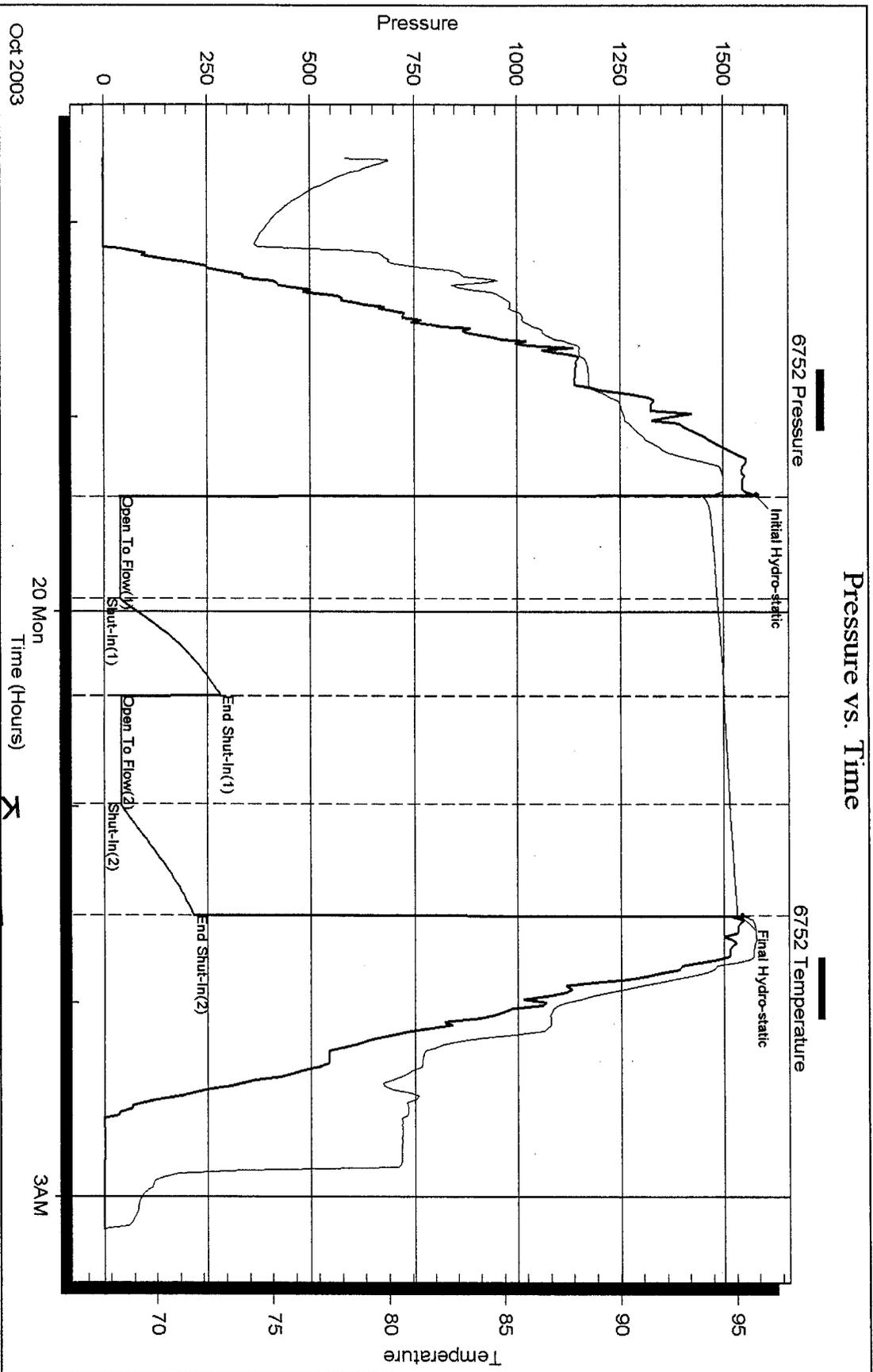
Inside

John O Farmer

11-13s-17w-Ellis

DST Test Number: 1

Pressure vs. Time



Oct 2003

20 Mon
Time (Hours)

3AM

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DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS. 67665

ATTN: Matt Dreiling

11-13s-17w-Ellis

Schumacher #1

Start Date: 2003.10.20 @ 14:12:19

End Date: 2003.10.20 @ 19:17:28

Job Ticket #: 18188 DST #: 2

John O Farmer

Schumacher #1

11-13s-17w-Ellis

DST # 2

LKC

2003.10.20

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer
 PO Box 352
 Russell KS. 67665
 ATTN: Matt Dreiling

Schumacher #1
11-13s-17w-Eillis
 Job Ticket: 18188 **DST#: 2**
 Test Start: 2003.10.20 @ 14:12:19

GENERAL INFORMATION:

Formation: **LKC**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 15:44:29
 Time Test Ended: 19:17:28

Interval: **3324.00 ft (KB) To 3387.00 ft (KB) (TVD)**
 Total Depth: **3387.00 ft (KB) (TVD)**
 Hole Diameter: **6.80 inches** Hole Condition: **Good**

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Test Type: **Conventional Bottom Hole**
 Tester: **Jason Mclemore**
 Unit No: **24**
 Reference Elevations: **2025.00 ft (KB)**
2013.00 ft (CF)
 KB to GR/CF: **12.00 ft**

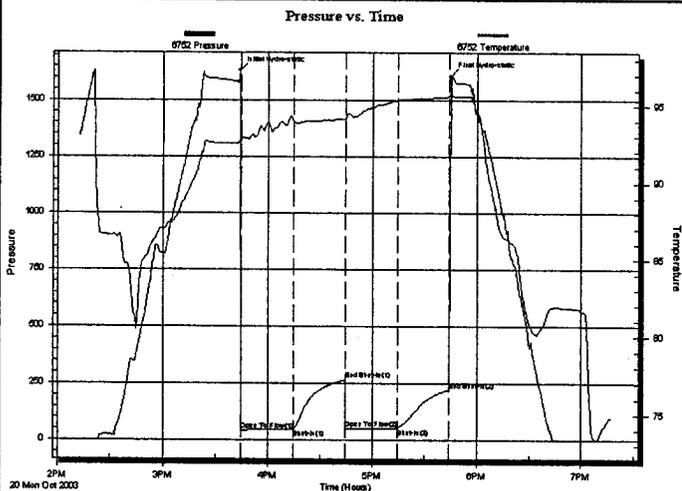
Serial #: 6752

Inside

Press@RunDepth: **51.74 psig @ 3364.00 ft (KB)**
 Start Date: **2003.10.20** End Date: **2003.10.20**
 Start Time: **14:12:20** End Time: **19:17:29**

Capacity: **7000.00 psig**
 Last Calib.: **1899.12.30**
 Time On Btm: **2003.10.20 @ 15:43:59**
 Time Off Btm: **2003.10.20 @ 17:44:49**

TEST COMMENT: **IFP- Weak Surface Blow**
FFP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.31	92.88	Initial Hydro-static
1	41.47	92.73	Open To Flow (1)
31	48.01	94.01	Shut-In(1)
61	265.26	94.16	End Shut-In(1)
61	49.12	94.14	Open To Flow (2)
91	51.74	95.34	Shut-In(2)
120	222.69	95.60	End Shut-In(2)
121	1607.35	95.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-Ellis

Job Ticket: 18188

DST#: 2

ATTN: Matt Dreiling

Test Start: 2003.10.20 @ 14:12:19

Tool Information

Drill Pipe:	Length: 3296.00 ft	Diameter: 3.80 inches	Volume: 46.23 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 60000.00 lb
			<u>Total Volume: 46.38 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3324.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3304.00	
Shut In Tool	5.00			3309.00	
Hydraulic tool	5.00			3314.00	
Packer	5.00			3319.00	21.00 Bottom Of Top Packer
Packer	5.00			3324.00	
Stubb	1.00			3325.00	
Perforations	7.00			3332.00	
Change Over Sub	1.00			3333.00	
Blank Spacing	30.00			3363.00	
Change Over Sub	1.00			3364.00	
Recorder	0.00	6752	Inside	3364.00	
Perforations	20.00			3384.00	
Recorder	0.00	13252	Outside	3384.00	
Bullnose	3.00			3387.00	63.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-Eillis

Job Ticket: 18188

DST#:2

ATTN: Matt Dreiling

Test Start: 2003.10.20 @ 14:12:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud	0.419

Total Length: 50.00 ft Total Volume: 0.419 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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Serial #: 6752

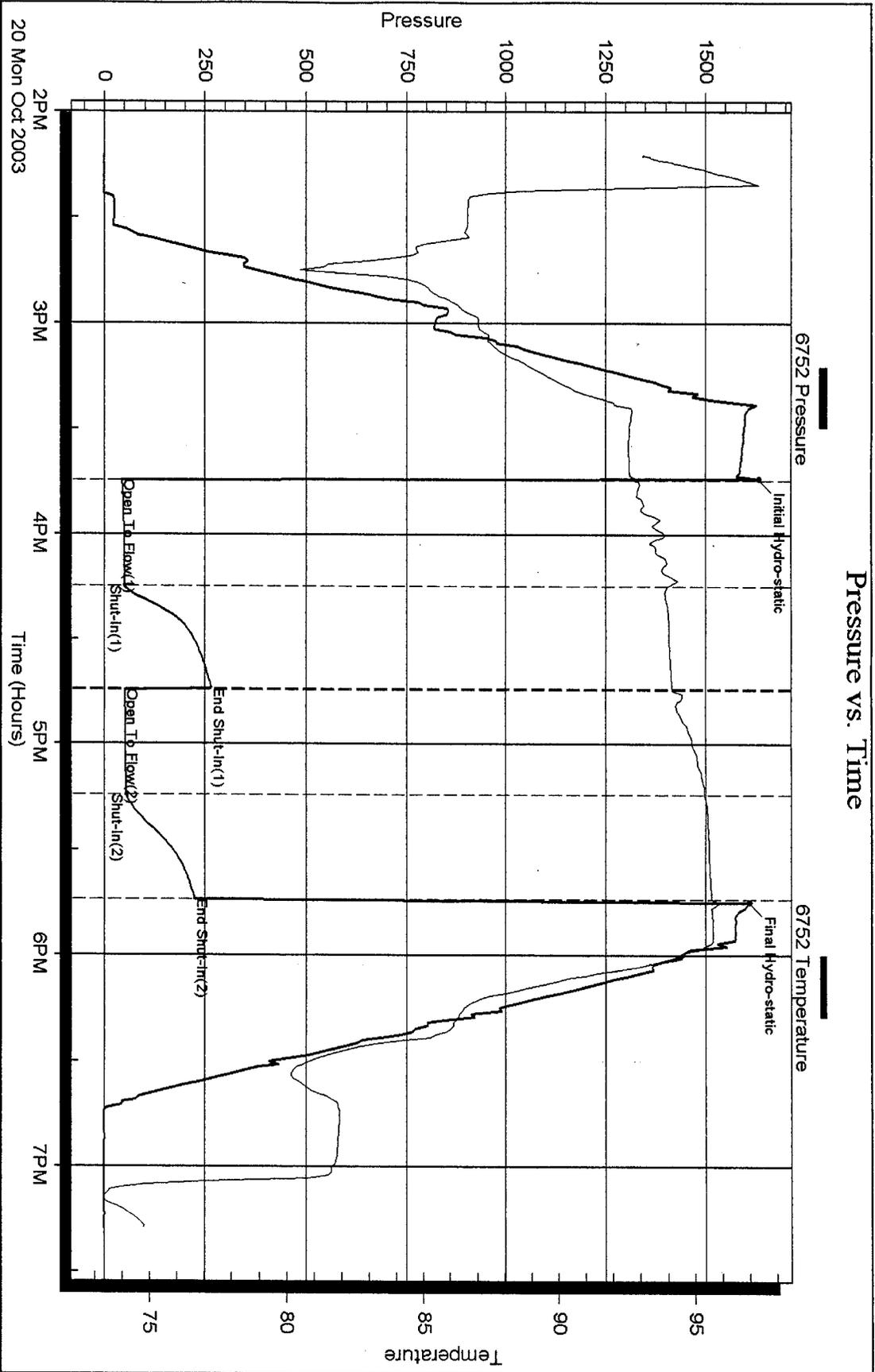
Inside

John O Farmer

11-13s-17w-Ellis

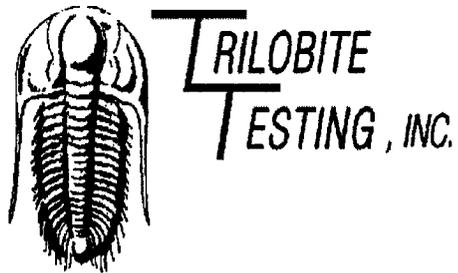
DST Test Number: 2

Pressure vs. Time



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KCC WICHITA

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DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS. 67665

ATTN: Matt Dreiling

11-13s-17w-Ellis

Schumacher #1

Start Date: 2003.10.21 @ 10:57:55

End Date: 2003.10.21 @ 15:52:25

Job Ticket #: 18189 DST #: 3

John O Farmer

Schumacher #1

11-13s-17w-Ellis

DST # 3

Arbuckle

2003.10.21

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer
 PO Box 352
 Russell KS. 67665
 ATTN: Matt Dreiling

Schumacher #1
11-13s-17w-E1111s
 Job Ticket: 18189 **DST#: 3**
 Test Start: 2003.10.21 @ 10:57:55

GENERAL INFORMATION:

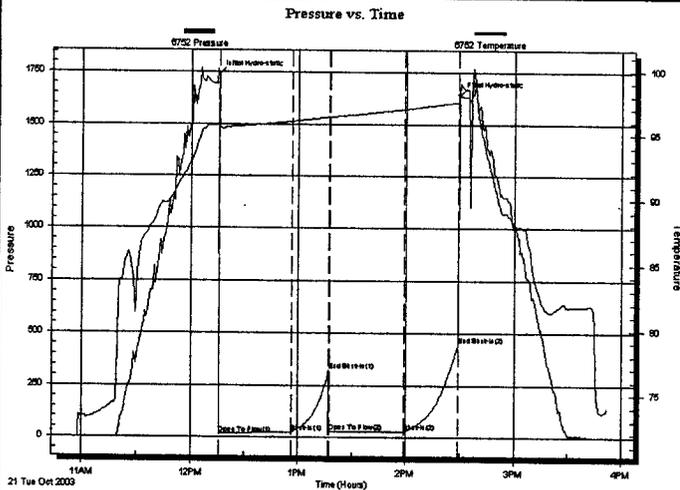
Formation: **Arbuckle**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 12:15:35
 Time Test Ended: 15:52:25
 Interval: **3517.00 ft (KB) To 3556.00 ft (KB) (TVD)**
 Total Depth: 3556.00 ft (KB) (TVD)
 Hole Diameter: 6.80 inches Hole Condition: Good

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Test Type: Conventional Bottom Hole
 Tester: Jason McEmore
 Unit No: 24
 Reference Elevations: 2025.00 ft (KB)
 2013.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 6752 Inside
 Press@RunDepth: 30.05 psig @ 3525.00 ft (KB)
 Start Date: 2003.10.21 End Date: 2003.10.21
 Start Time: 10:57:56 End Time: 15:52:25
 Capacity: 7000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2003.10.21 @ 12:15:25
 Time Off Btm: 2003.10.21 @ 14:29:25

TEST COMMENT: IFF- Weak Surface Blow
 FFF- Weak Surface Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1738.17	95.96	Initial Hydro-static
1	16.19	95.17	Open To Flow (1)
41	24.89	96.07	Shut-In(1)
62	322.68	96.43	End Shut-In(1)
63	27.96	96.38	Open To Flow (2)
104	30.05	97.01	Shut-In(2)
134	445.31	97.57	End Shut-In(2)
134	1642.83	97.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
28.00	Oil Cut Mud 10% oil, 90% Mud	0.14
3.00	Hvy Oil Cut Mud, 75% Oil, 25% Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-Eillis

Job Ticket: 18189

DST#: 3

ATTN: Matt Drilling

Test Start: 2003.10.21 @ 10:57:55

Tool Information

Drill Pipe:	Length: 3490.00 ft	Diameter: 3.80 inches	Volume: 48.96 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 68000.00 lb
		Total Volume: 49.11 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3517.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3497.00	
Shut In Tool	5.00			3502.00	
Hydraulic tool	5.00			3507.00	
Packer	5.00			3512.00	21.00 Bottom Of Top Packer
Packer	5.00			3517.00	
Stubb	1.00			3518.00	
Perforations	7.00			3525.00	
Recorder	0.00	6752	Inside	3525.00	
Perforations	28.00			3553.00	
Recorder	0.00	13252	Outside	3553.00	
Bullnose	3.00			3556.00	39.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-E1111s

Job Ticket: 18189

DST#: 3

ATTN: Matt Dreiling

Test Start: 2003.10.21 @ 10:57:55

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:

ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
28.00	Oil Cut Mud 10% oil, 90% Mud	0.138
3.00	Hvy Oil Cut Mud, 75% Oil, 25% Mud	0.015

Total Length: 31.00 ft

Total Volume: 0.153 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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Serial #: 6752

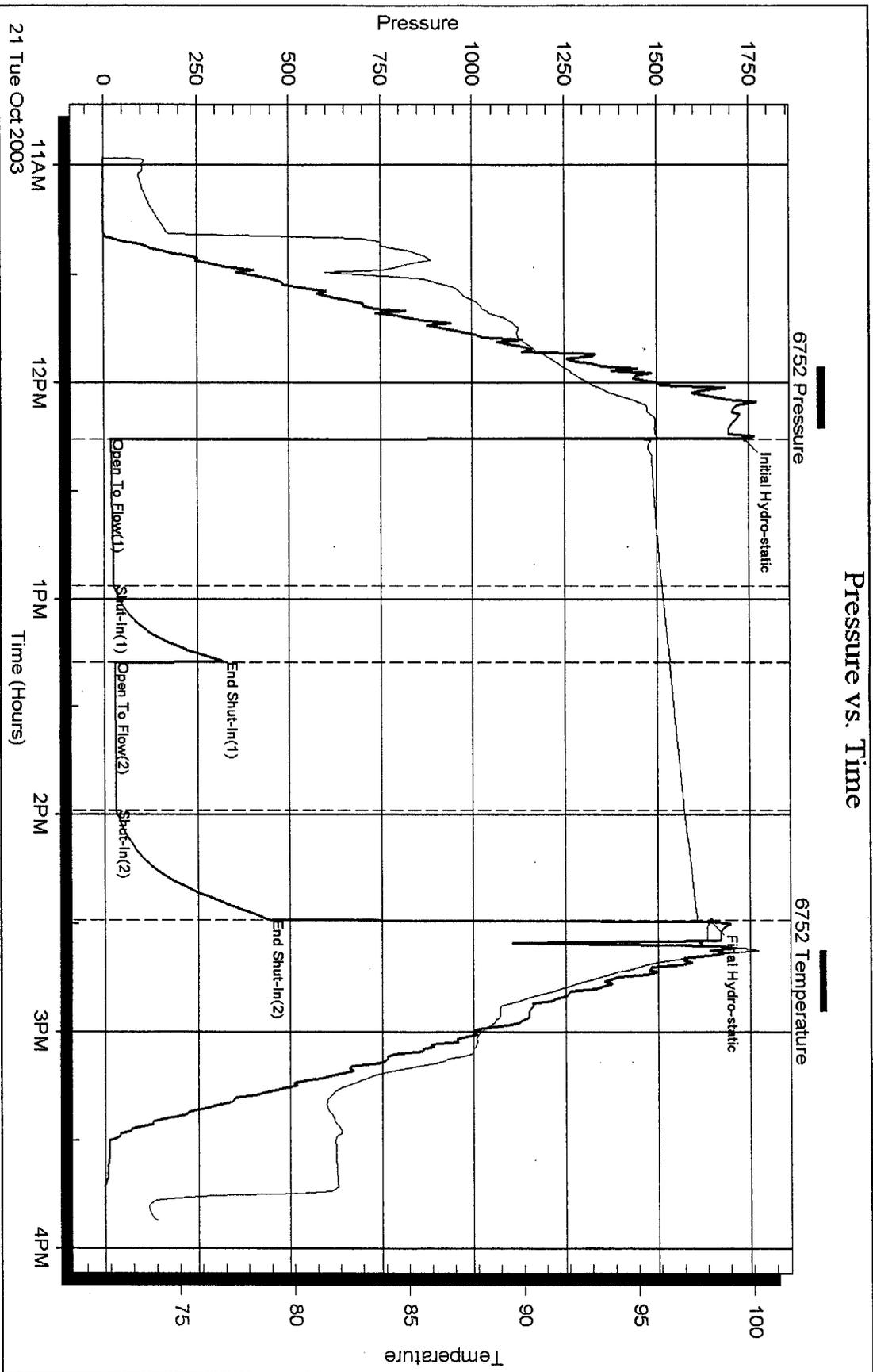
Inside

John O Farmer

11-13s-17w-Ellis

DST Test Number: 3

Pressure vs. Time



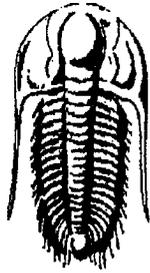
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Ref. No: 18189

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Printed: 2003.10.23 @ 12:38:38 Page 5

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS. 67665

ATTN: Matt Dreiling

11-13s-17w-Ellis

Schumacher #1

Start Date: 2003.10.21 @ 23:37:25

End Date: 2003.10.22 @ 05:50:34

Job Ticket #: 18190 . DST #: 4

John O Farmer

Schumacher #1

11-13s-17w-Ellis

DST # 4

Arbuckle

2003.10.21

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-Eillis

Job Ticket: 18190

DST#: 4

ATTN: Matt Dreiling

Test Start: 2003.10.21 @ 23:37:25

Tool Information

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 60000.00 lb
		<u>Total Volume: 49.44 bbl</u>		Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3557.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3537.00	
Shut In Tool	5.00			3542.00	
Hydraulic tool	5.00			3547.00	
Packer	5.00			3552.00	21.00 Bottom Of Top Packer
Packer	5.00			3557.00	
Stubb	1.00			3558.00	
Recorder	0.00	6752	Inside	3558.00	
Perforations	9.00			3567.00	
Recorder	0.00	13252	Outside	3567.00	
Bullnose	3.00			3570.00	13.00 Bottom Packers & Anchor
Total Tool Length:	34.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer
PO Box 352
Russell KS. 67665
ATTN: Matt Dreiling

Schumacher #1
11-13s-17w-Ellis
Job Ticket: 18190 **DST#:4**
Test Start: 2003.10.21 @ 23:37:25

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:	ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Hvy Oil Cut Mud 60% Oil, 40% Mud	0.419
190.00	Gassy Oil, 75% Oil, 25% Gas	2.665
60.00	Gas In Pipe	0.842

Total Length: 300.00 ft Total Volume: 3.926 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

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DEC 19 2003
KCC WICHITA**

Serial #: 6752

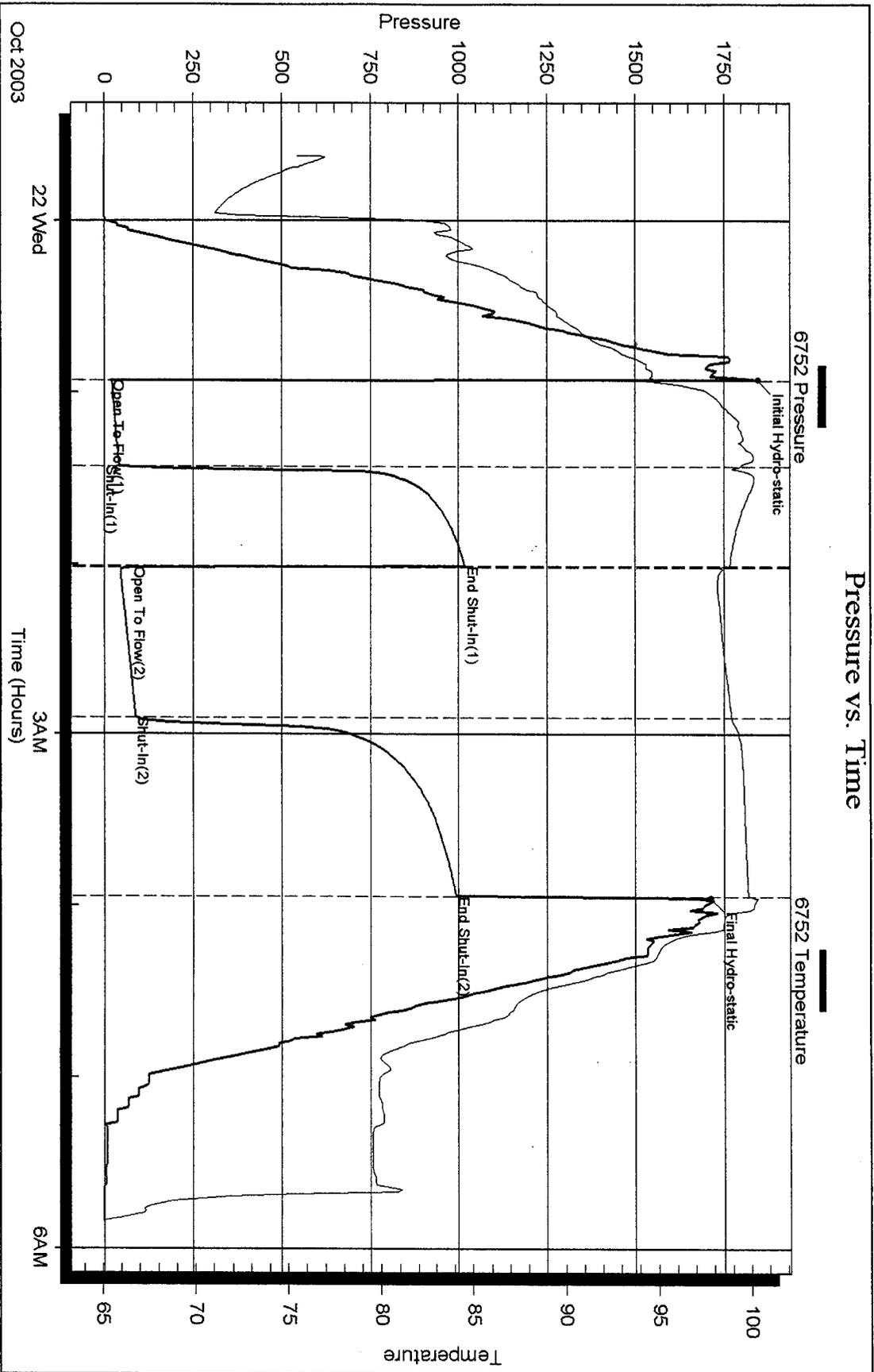
Inside

John O Farmer

11-13s-17w-Ellis

DST Test Number: 4

Pressure vs. Time

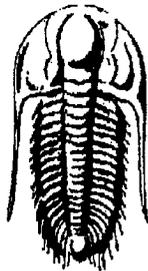


Trilobite Testing, Inc

Ref. No: 18190

Printed: 2003.10.23 @ 12:38:55 Page 5

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS. 67665

ATTN: Matt Dreiling

11-13s-17w-Ellis

Schumacher #1

Start Date: 2003.10.22 @ 11:28:37

End Date: 2003.10.22 @ 17:54:07

Job Ticket #: 18191 DST #: 5

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John O Farmer

Schumacher #1

11-13s-17w-Ellis

DST # 5

Arbuckle

2003.10.22

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-Eillis

Job Ticket: 18191

DST#: 5

ATTN: Matt Dreiling

Test Start: 2003.10.22 @ 11:28:37

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:09:37
 Time Test Ended: 17:54:07

Interval: **3570.00 ft (KB) To 3580.00 ft (KB) (TVD)**
 Total Depth: 3580.00 ft (KB) (TVD)
 Hole Diameter: 6.80 inches Hole Condition: Good

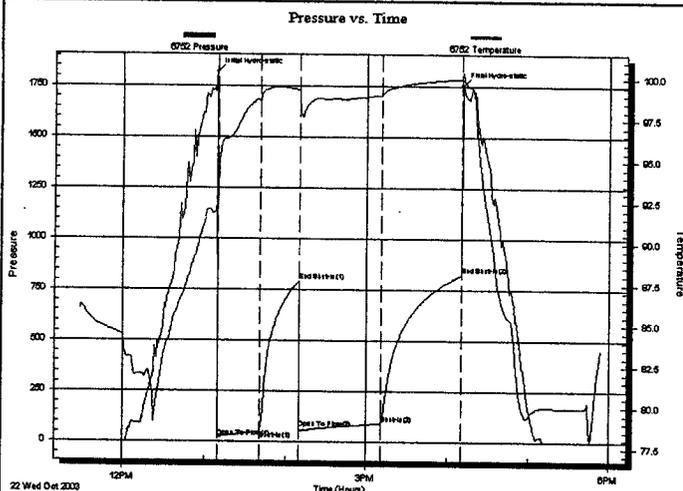
Test Type: Conventional Bottom Hole
 Tester: Jason McIcmore
 Unit No: 24

Reference Elevations: 2025.00 ft (KB)
 2013.00 ft (CF)
 KB to GR/CF: 12.00 ft

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Serial #: 6752 Inside
 Press@RunDepth: 91.86 psig @ 3571.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2003.10.22 End Date: 2003.10.22 Last Calib.: 1899.12.30
 Start Time: 11:28:38 End Time: 17:54:07 Time On Btm: 2003.10.22 @ 13:09:27
 Time Off Btm: 2003.10.22 @ 16:10:57

TEST COMMENT: IFF- Good Blow , BOB in 22 min, Surface Blow back After 3 min, lasted Throughout
 FFF- Good Blow , BOB in 50 min, Surface Blow back After 8 min,



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.09	92.49	Initial Hydro-static
1	17.95	92.12	Open To Flow (1)
32	50.54	98.63	Shut-In(1)
61	793.06	99.31	End Shut-In(1)
61	65.41	98.95	Open To Flow (2)
122	91.86	99.00	Shut-In(2)
182	824.78	100.00	End Shut-In(2)
182	1759.14	100.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Heavy Oil Cut Mud/Water 10%W 20%M	70.02
145.00	Gassy Oil,95% Oil 5% Gas	1.80
120.00	Gassy Oil,90% Oil 10% Gas	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-Ellis

Job Ticket: 18191

DST#: 5

ATTN: Matt Dreiling

Test Start: 2003.10.22 @ 11:28:37

Tool Information

Drill Pipe:	Length: 3545.00 ft	Diameter: 3.80 inches	Volume: 49.73 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 58000.00 lb
			Total Volume: 49.88 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3570.00 ft			Final 43000.00 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:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3550.00	
Shut In Tool	5.00			3555.00	
Hydraulic tool	5.00			3560.00	
Packer	5.00			3565.00	21.00 Bottom Of Top Packer
Packer	5.00			3570.00	
Stubb	1.00			3571.00	
Recorder	0.00	6752	Inside	3571.00	
Perforations	6.00			3577.00	
Recorder	0.00	13252	Outside	3577.00	
Bullnose	3.00			3580.00	10.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Schumacher #1

PO Box 352
Russell KS. 67665

11-13s-17w-E111s

Job Ticket: 18191

DST#: 5

ATTN: Matt Dreiling

Test Start: 2003.10.22 @ 11:28:37

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 25 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7400.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Heavy Oil Cut Mud/Water 10%W 20%M 70%C	0.025
145.00	Gassy Oil,95% Oil 5% Gas	1.797
120.00	Gassy Oil,90% Oil 10% Gas	1.683

Total Length: 270.00 ft Total Volume: 3.505 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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Serial #: 6752

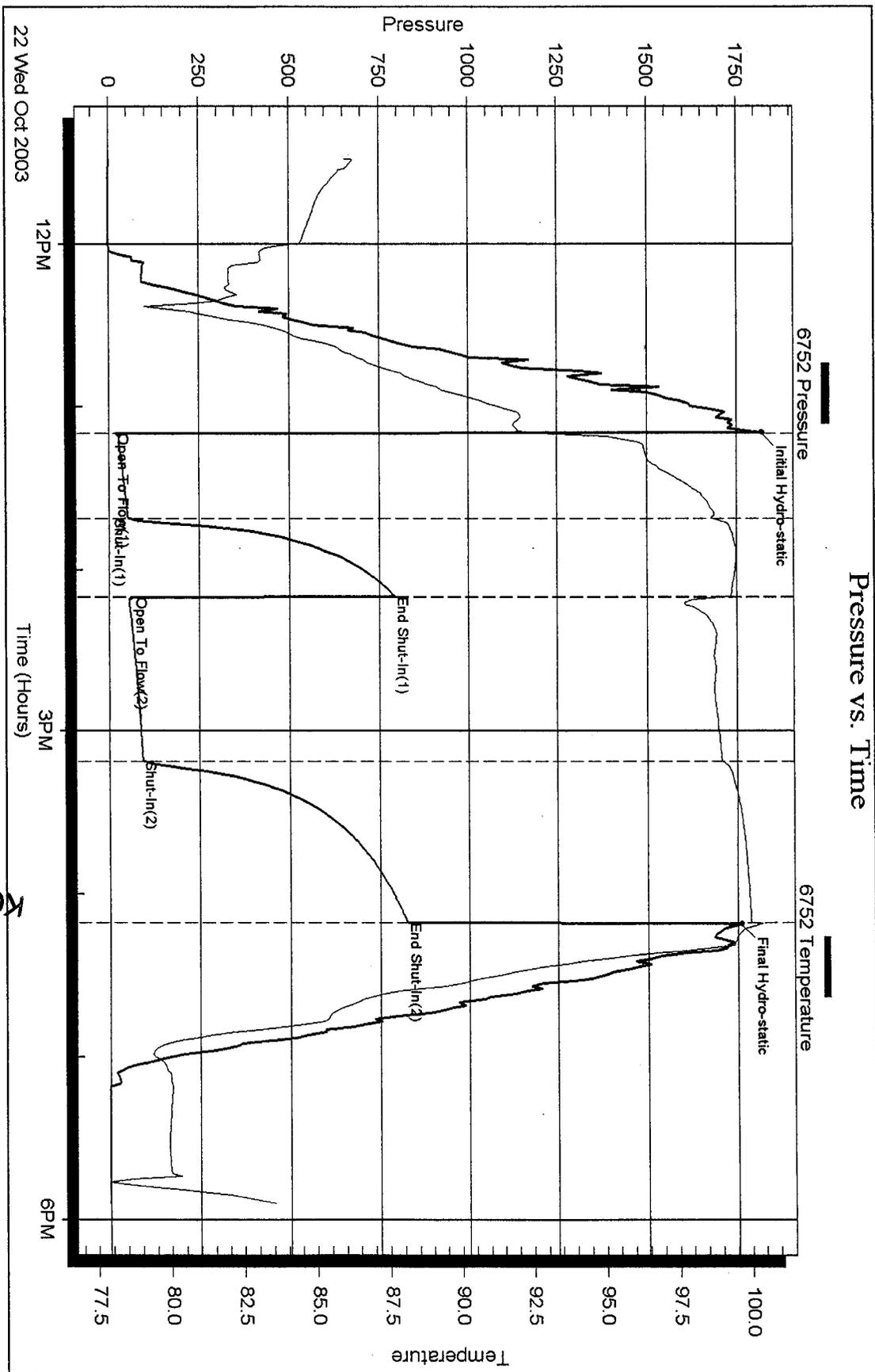
Inside

John O Farmer

11-13s-17w-Bills

DST Test Number: 5

Pressure vs. Time



22 Wed Oct 2003

12 PM

3 PM

6 PM

Time (Hours)

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Ref. No: 18191

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