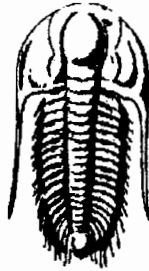


15-051-25248



**TRILOBITE  
TESTING, INC.**

RECEIVED  
SEP 30 2003  
KCC WICHITA

DRILL STEM TEST REPORT

**CONFIDENTIAL**

Prepared For: **John O Farmer Inc**

PO Box 352  
Russell Ks 67665

**ORIGINAL KCC**

ATTN: John O Farmer IV

SEP 29 2003

**5-13s-17w Ellis Ks**

**CONFIDENTIAL**

**Brungardt #5**

Start Date: 2003.08.30 @ 08:19:42

End Date: 2003.08.30 @ 14:45:41

Job Ticket #: 18794          DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

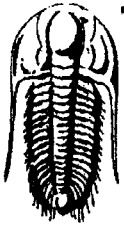
Brungardt #5

5-13s-17w Ellis Ks

DST # 1

Tor-Lans "C"

2003.08.30



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

John O Farmer Inc  
 PO Box 352  
 Russell Ks 67665  
 ATTN: John O Farmer IV

**Brungardt #5**  
**5-13s-17w Ellis Ks**  
 Job Ticket: 18794      **DST#: 1**  
 Test Start: 2003.08.30 @ 08:19:42

**GENERAL INFORMATION:**

Formation: **Tor-Lans "C"**  
 Deviated: **No** Whipstock:      ft (KB)  
 Time Tool Opened: 10:05:11  
 Time Test Ended: 14:45:41

**KCC**  
**SEP 29 2003**

Test Type: Conventional Bottom Hole  
 Tester: Ray Schwager  
 Unit No: 28

Interval: **3296.00 ft (KB) To 3382.00 ft (KB) (TVD)**  
 Total Depth: **3382.00 ft (KB) (TVD)**  
 Hole Diameter: **7.85 inches** Hole Condition: Fair

Reference Elevations: **2054.00 ft (KB)**  
**2046.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

**CONFIDENTIAL**

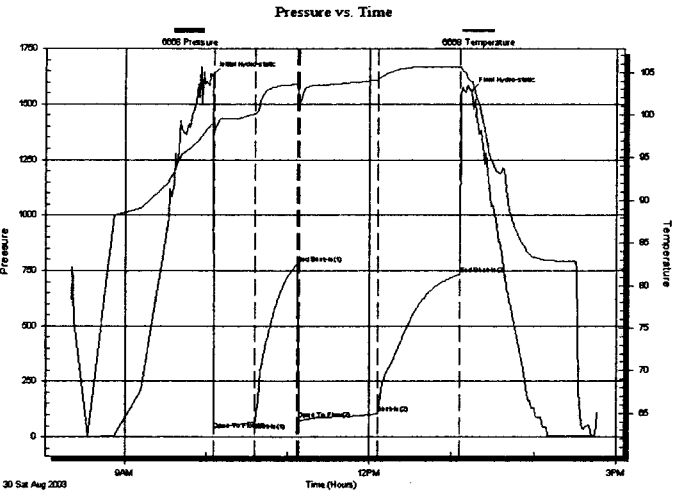
**Serial #: 6668**

**Inside**

Press@RunDepth: **103.44 psig @ 3299.01 ft (KB)**  
 Start Date: **2003.08.30** End Date: **2003.08.30**  
 Start Time: **08:19:42** End Time: **14:45:41**

Capacity: **7000.00 psig**  
 Last Calib.: **2003.08.30**  
 Time On Btrt: **2003.08.30 @ 10:04:11**  
 Time Off Btrt: **2003.08.30 @ 13:14:11**

**TEST COMMENT:** FFP-w k to strg in 7 min  
 FFP-w k to strg in 8 min  
 Times 30-30-60-60  
 w k bl bk on shut-in



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1627.84	98.91	Initial Hydro-static
1	32.87	98.41	Open To Flow (1)
31	67.50	100.08	Shut-In(1)
63	779.02	103.58	End Shut-In(1)
64	76.81	101.87	Open To Flow (2)
122	103.44	104.11	Shut-In(2)
182	733.74	105.59	End Shut-In(2)
190	1558.16	103.96	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
150.00	Clean Oil	1.83
100.00	GOCM 25%gas 35%oil 40%mud	1.40
0.00	950 GIP	0.00

**Gas Rates**

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

CONFIDENTIAL

ORIGINAL



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

John O Farmer Inc

**Brungardt #5**

PO Box 352  
Russell Ks 67665

**5-13s-17w Ellis Ks**

Job Ticket: 18794      **DST#: 1**

ATTN: John O Farmer IV

Test Start: 2003.08.30 @ 08:19:42

**Tool Information**

Drill Pipe:	Length: 3252.00 ft	Diameter: 3.80 inches	Volume: 45.62 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3296.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.02 ft			
Tool Length:	107.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

**KCC**

SEP 29 2003

CONFIDENTIAL

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3276.00	
Shut In Tool	5.00			3281.00	
Hydraulic tool	5.00			3286.00	
Packer	5.00			3291.00	21.00 Bottom Of Top Packer
Packer	5.00			3296.00	
Stubb	1.00			3297.00	
Perforations	1.00			3298.00	
Change Over Sub	1.00			3299.00	
Recorder	0.01	6668	Inside	3299.01	
Blank Spacing	62.00			3361.01	
Change Over Sub	1.00			3362.01	
Recorder	0.01	11085	Outside	3362.02	
Perforations	17.00			3379.02	
Bullnose	3.00			3382.02	86.02 Bottom Packers & Anchor

**Total Tool Length: 107.02**



**TRILOBITE**  
**TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Brungardt #5

PO Box 352  
Russell Ks 67665

5-13s-17w Ellis Ks

Job Ticket: 18794

DST#: 1

ATTN: John O Farmer IV

Test Start: 2003.08.30 @ 08:19:42

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Clean Oil	1.831
100.00	GOCM 25%gas 35%oil 40%mud	1.403
0.00	950 GP	0.000

Total Length: 250.00 ft

Total Volume: 3.234 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

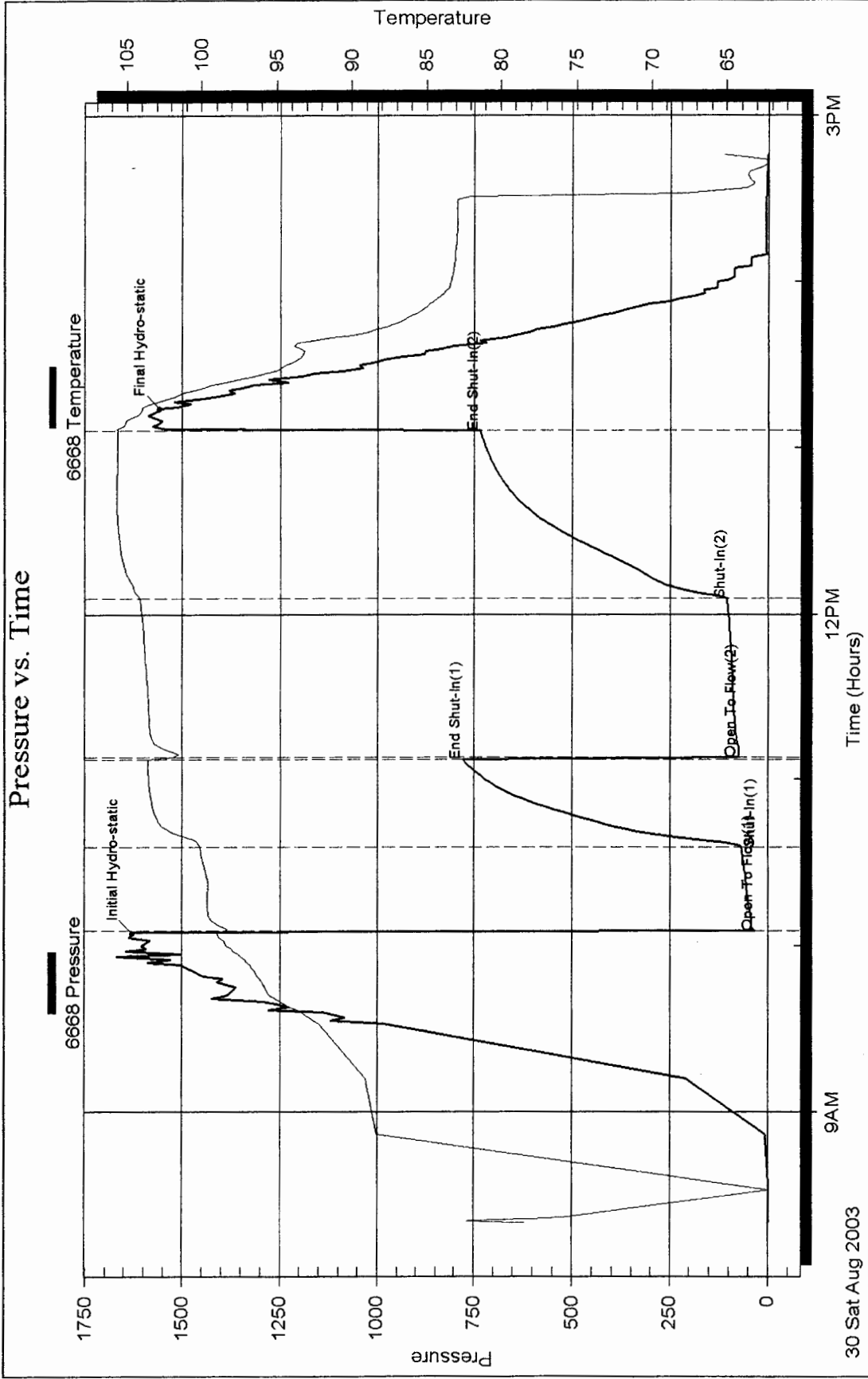
Inside

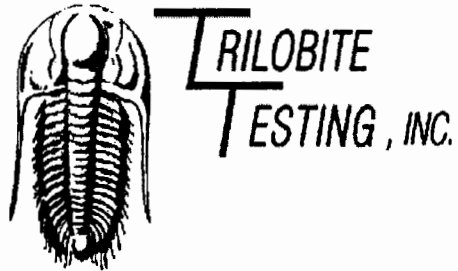
John O Farmer Inc

5-13s-17w Ellis Ks

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352  
Russell Ks 67665

ATTN: John O Farmer IV

**5-13s-17w Ellis Ks**

**Brungardt #5**

Start Date: 2003.08.30 @ 22:57:53

End Date: 2003.08.31 @ 05:43:52

Job Ticket #: 18795                      DST #: 2

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

John O Farmer Inc

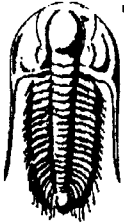
Brungardt #5

5-13s-17w Ellis Ks

DST # 2

Ians D-G

2003.08.30



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

John O Farmer Inc

**Brungardt #5**

PO Box 352  
Russell Ks 67665

**5-13s-17w Ellis Ks**

Job Ticket: 18795

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2003.08.30 @ 22:57:53

### GENERAL INFORMATION:

Formation: **Ians D-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:45:22

Time Test Ended: 05:43:52

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3382.00 ft (KB) To 3442.00 ft (KB) (TVD)**

Reference Elevations: 2054.00 ft (KB)

Total Depth: 3442.00 ft (KB) (TVD)

2046.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6668**

Inside

Press@RunDepth: 156.99 psig @ 3385.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.08.30

End Date:

2003.08.31

Last Calib.: 2003.08.31

Start Time: 22:57:53

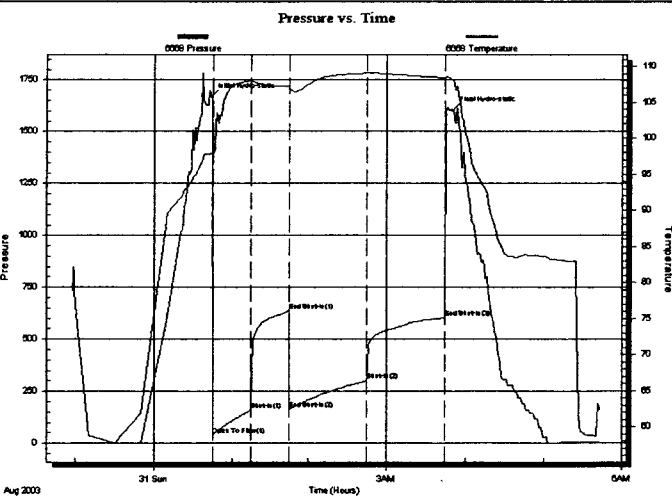
End Time:

05:43:52

Time On Btm: 2003.08.31 @ 00:43:52

Time Off Btm: 2003.08.31 @ 03:49:52

**TEST COMMENT:** FP-wk to strg in 7 min  
FFP-wk to strg in 16 min  
Times 30-30-60-60  
no bl on shut-in



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.66	97.86	Initial Hydro-static
2	39.72	97.76	Open To Flow (1)
31	156.99	107.97	Shut-in(1)
61	635.36	107.15	End Shut-in(1)
61	162.17	107.01	End Shut-in(2)
121	300.69	109.04	Shut-in(2)
181	603.30	108.41	End Shut-in(3)
186	1601.80	108.17	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	Clean Oil	0.15
90.00	M&WCGO 20%gas 60%oil 10%water	1.26d
180.00	GOCMW 20%gas 5%oil 40%water 35%	2.52
300.00	water RW .27@63F	4.21
0.00	180 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 Inc

**Brungardt #5**

PO Box 352  
Russell Ks 67665

**5-13s-17w Ellis Ks**

Job Ticket: 18795

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2003.08.30 @ 22:57:53

### Tool Information

Drill Pipe:	Length: 3348.00 ft	Diameter: 3.80 inches	Volume: 46.96 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 47.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3382.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.02 ft			
Tool Length:	81.02 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			3362.00	
Shut In Tool	5.00			3367.00	
Hydraulic tool	5.00			3372.00	
Packer	5.00			3377.00	21.00 Bottom Of Top Packer
Packer	5.00			3382.00	
Stubb	1.00			3383.00	
Perforations	1.00			3384.00	
Change Over Sub	1.00			3385.00	
Recorder	0.01	6668	Inside	3385.01	
Blank Spacing	31.00			3416.01	
Change Over Sub	1.00			3417.01	
Recorder	0.01	11085	Outside	3417.02	
Perforations	22.00			3439.02	
Bullnose	3.00			3442.02	60.02 Bottom Packers & Anchor

**Total Tool Length: 81.02**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer Inc

**Brungardt #5**

PO Box 352  
Russell Ks 67665

**5-13s-17w Ellis Ks**

Job Ticket: 18795

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2003.08.30 @ 22:57:53

### 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:

32000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	Clean Oil	0.148
90.00	M&WCGO 20%gas 60%oil 10%water 10%mu	1.262
180.00	GOCMW 20%gas 5%oil 40%water 35%mud	2.525
300.00	water RW .27@63F	4.208
0.00	180 GP	0.000

Total Length: 600.00 ft

Total Volume: 8.143 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

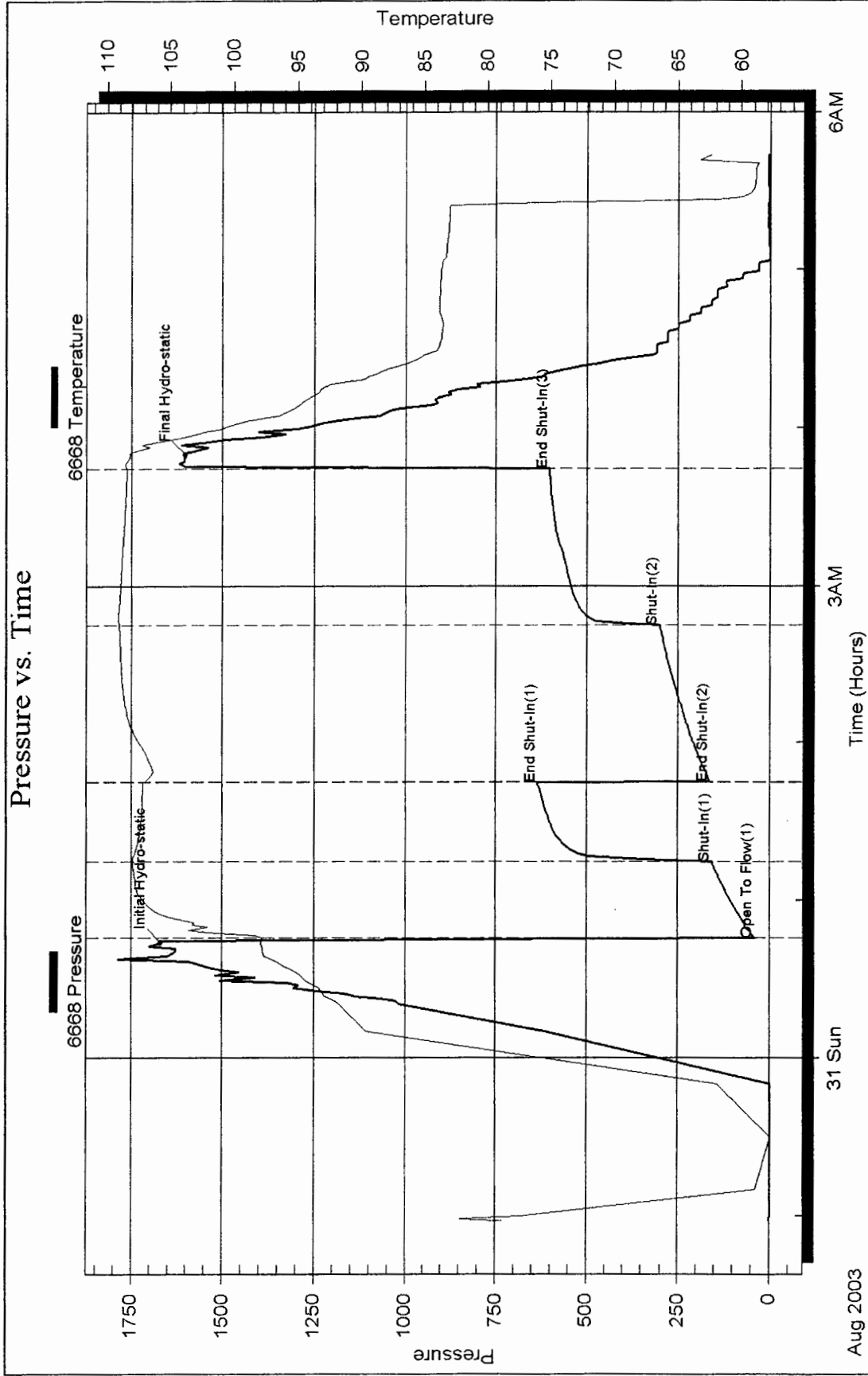
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

John O Farmer Inc  
PO Box 352  
Russell Ks 67665  
ATTN: John O Farmer IV

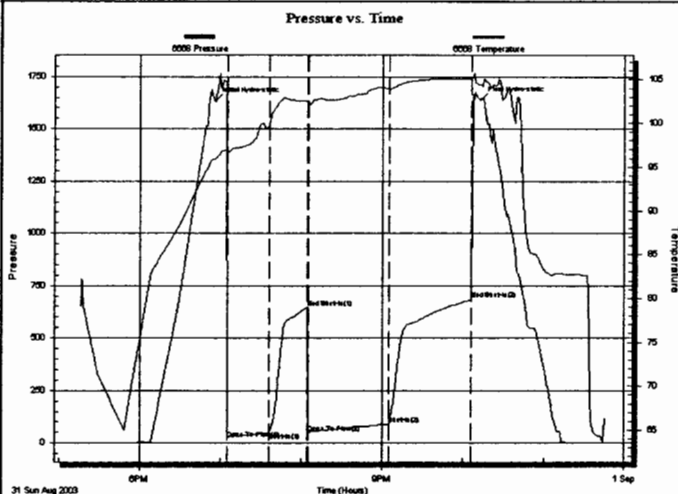
**Brungardt #5**  
**5-13s-17w Ellis Ks**  
Job Ticket: 18796      **DST#: 3**  
Test Start: 2003.08.31 @ 17:16:08

### GENERAL INFORMATION:

Formation: **Ians H-J**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 19:04:37  
Time Test Ended: 23:46:37  
Test Type: **Conventional Bottom Hole**  
Tester: **Ray Schwager**  
Unit No: **28**  
Interval: **3462.00 ft (KB) To 3540.00 ft (KB) (TVD)**  
Reference Elevations: **2054.00 ft (KB)**  
**2046.00 ft (CF)**  
Total Depth: **3540.00 ft (KB) (TVD)**  
Hole Diameter: **7.85 inches** Hole Condition: **Fair**  
KB to GR/CF: **8.00 ft**

**Serial #: 6668**      **Inside**  
Press@RunDepth: **89.56 psig @ 3465.01 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2003.08.31**      End Date: **2003.08.31**      Last Calib.: **2003.09.01**  
Start Time: **17:16:08**      End Time: **23:46:37**      Time On Btm: **2003.08.31 @ 18:56:07**  
Time Off Btm: **2003.08.31 @ 22:13:07**

**TEST COMMENT:** FFP-w k to a gd bl 1/2" to 8" bl  
FFP-w k to a gd bl 1/2" to 8" bl  
Times 30-30-60-60



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1634.27	95.92	Initial Hydro-static
9	18.68	96.68	Open To Flow (1)
40	50.61	99.81	Shut-In (1)
68	645.62	102.57	End Shut-In (1)
69	47.92	102.41	Open To Flow (2)
129	89.56	103.89	Shut-In (2)
190	682.29	105.09	End Shut-In (2)
197	1639.04	104.37	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	HO&GCM 25%gas 35%oil 40%mud	0.57
120.00	GMO 45%^gas 45%oil 10%mud	1.68
0.00	420 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 Inc

**Brungardt #5**

PO Box 352  
Russell Ks 67665

**5-13s-17w Ellis Ks**

Job Ticket: 18796

**DST#: 3**

ATTN: John O Farmer IV

Test Start: 2003.08.31 @ 17:16:08

### Tool Information

Drill Pipe:	Length: 3443.00 ft	Diameter: 3.80 inches	Volume: 48.30 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			<b>Total Volume: 48.45 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3462.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.02 ft			
Tool Length:	99.02 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			3442.00	
Shut In Tool	5.00			3447.00	
Hydraulic tool	5.00			3452.00	
Packer	5.00			3457.00	21.00 Bottom Of Top Packer
Packer	5.00			3462.00	
Stubb	1.00			3463.00	
Perforations	1.00			3464.00	
Change Over Sub	1.00			3465.00	
Recorder	0.01	6668	Inside	3465.01	
Blank Spacing	60.00			3525.01	
Change Over Sub	1.00			3526.01	
Recorder	0.01	11085	Outside	3526.02	
Perforations	11.00			3537.02	
Bullnose	3.00			3540.02	78.02 Bottom Packers & Anchor

**Total Tool Length: 99.02**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer Inc

**Brungardt #5**

PO Box 352  
Russell Ks 67665

**5-13s-17w Ellis Ks**

Job Ticket: 18796

**DST#: 3**

ATTN: John O Farmer IV

Test Start: 2003.08.31 @ 17:16:08

### 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	HO&GCM 25%gas 35%oil 40%mud	0.568
120.00	GMO 45%^gas 45%oil 10%mud	1.683
0.00	420 GIP	0.000

Total Length: 180.00 ft

Total Volume: 2.251 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

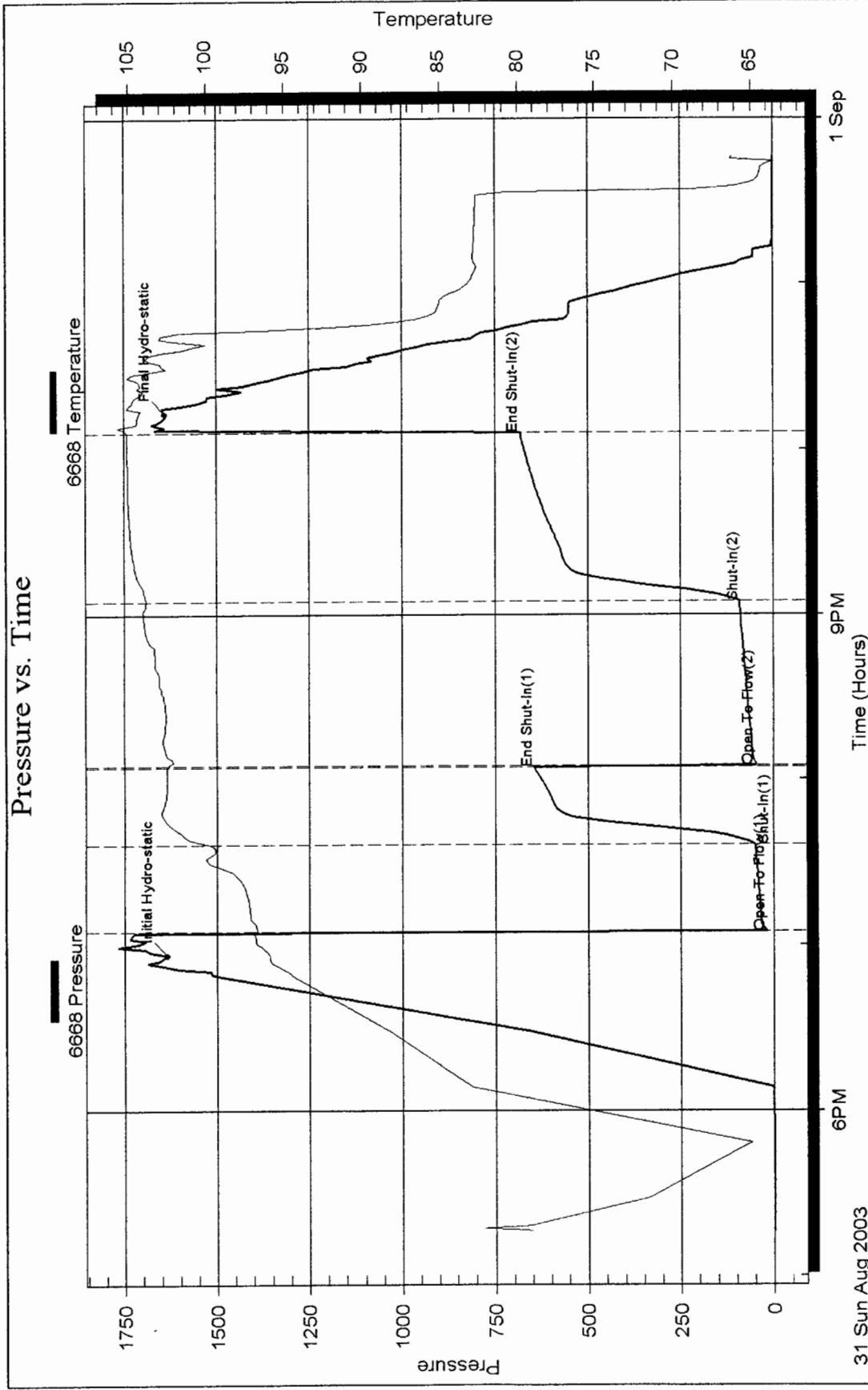
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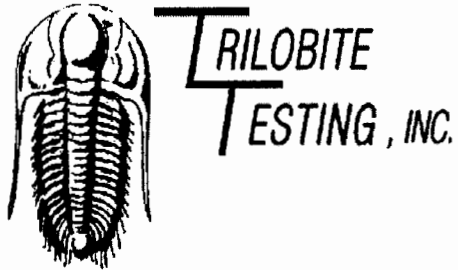
Inside

John O Farmer Inc

5-13s-17w Ellis Ks

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352  
Russell Ks 67665

ATTN: John O Farmer IV

**5-13s-17w Ellis Ks**

**Brungardt #5**

Start Date: 2003.09.01 @ 09:41:26

End Date: 2003.09.01 @ 17:01:25

Job Ticket #: 18797                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

Brungardt #5

5-13s-17w Ellis Ks

DST # 4

Arbuckle

2003.09.01



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352  
Russell Ks 67665

ATTN: John O Farmer IV

**Brungardt #5**

**5-13s-17w Ellis Ks**

Job Ticket: 18797

DST#: 4

Test Start: 2003.09.01 @ 09:41:26

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:56:25

Time Test Ended: 17:01:25

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3572.00 ft (KB) To 3625.00 ft (KB) (TVD)**

Reference Elevations: 2054.00 ft (KB)

Total Depth: 3625.00 ft (KB) (TVD)

2046.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6668**

Inside

Press@RunDepth: 210.07 psig @ 3575.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.09.01

End Date:

2003.09.01

Last Calib.:

2003.09.01

Start Time: 09:41:26

End Time:

17:01:25

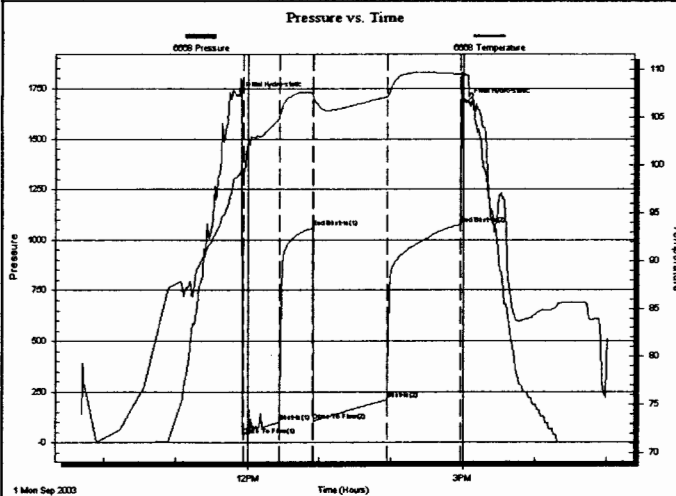
Time On Btm:

2003.09.01 @ 11:52:25

Time Off Btm:

2003.09.01 @ 15:03:25

TEST COMMENT: FFP-w k to a gd bl 1/2" to 8" bl  
FFP-w k to a fr bl 1/2" to 4" bl  
Times 30-30-60-60



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.68	98.97	Initial Hydro-static
4	36.97	99.12	Open To Flow (1)
34	101.27	104.86	Shut-In(1)
63	1060.70	107.51	End Shut-In(1)
63	106.06	107.16	Open To Flow (2)
124	210.07	107.13	Shut-In(2)
186	1075.38	109.52	End Shut-In(2)
191	1682.86	109.44	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
290.00	clean oil	3.79
90.00	gmo 20%gas 40%mud 40%oil	1.26
120.00	gmo 20%gas 72%oil 8%mud	1.68
0.00	160 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 Inc

**Brungardt #5**

PO Box 352  
Russell Ks 67665

**5-13s-17w Ellis Ks**

Job Ticket: 18797

**DST#: 4**

ATTN: John O Farmer IV

Test Start: 2003.09.01 @ 09:41:26

### Tool Information

Drill Pipe:	Length: 3535.00 ft	Diameter: 3.80 inches	Volume: 49.59 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3572.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.02 ft			
Tool Length:	74.02 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			3552.00	
Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Packer	5.00			3567.00	21.00 Bottom Of Top Packer
Packer	5.00			3572.00	
Stubb	1.00			3573.00	
Perforations	1.00			3574.00	
Change Over Sub	1.00			3575.00	
Recorder	0.01	6668	Inside	3575.01	
Blank Spacing	30.00			3605.01	
Change Over Sub	1.00			3606.01	
Recorder	0.01	11085	Outside	3606.02	
Perforations	16.00			3622.02	
Bullnose	3.00			3625.02	53.02 Bottom Packers & Anchor

**Total Tool Length: 74.02**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

John O Farmer Inc

**Brungardt #5**

PO Box 352  
Russell Ks 67665

**5-13s-17w Ellis Ks**

Job Ticket: 18797

**DST#: 4**

ATTN: John O Farmer IV

Test Start: 2003.09.01 @ 09:41:26

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
290.00	clean oil	3.795
90.00	gmo 20%gas 40%mud 40%oil	1.262
120.00	gmo 20%gas 72%oil 8%mud	1.683
0.00	160 GIP	0.000

Total Length: 500.00 ft

Total Volume: 6.740 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

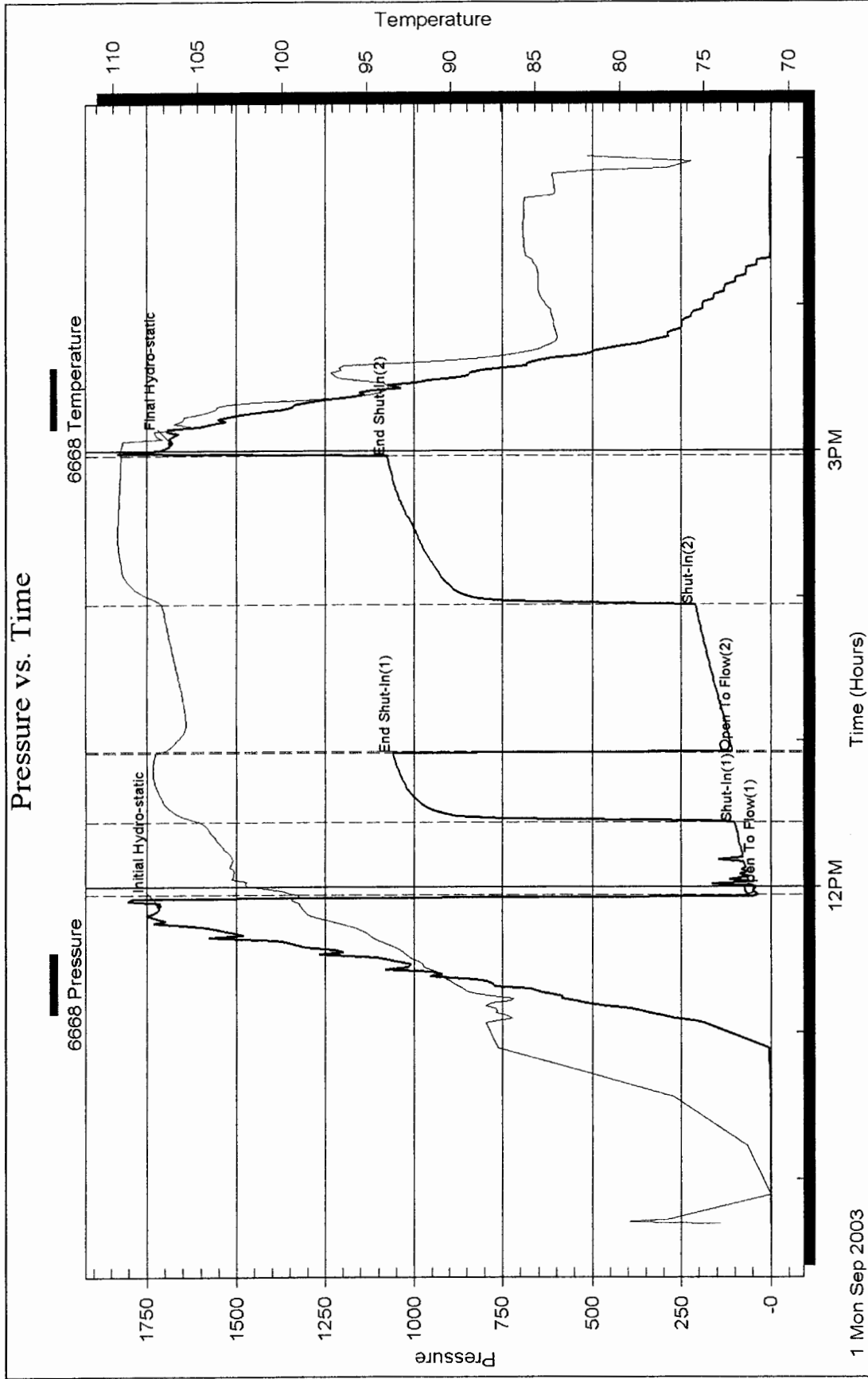
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



1 Mon Sep 2003

12PM

3PM

Time (Hours)