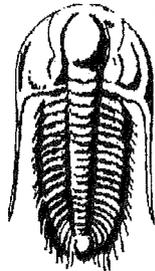


15-065-23344

31-7s-2lw



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

31 7 21 Graham KS

Van Loenen B #1

Start Date: 2007.09.23 @ 12:05:35

End Date: 2007.09.23 @ 19:22:35

Job Ticket #: 30598 DST #: 1

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KCC

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 Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

ATTN: Brad Hutchison

Job Ticket: 30598

DST#: 1

Test Start: 2007.09.23 @ 12:05:35

GENERAL INFORMATION:

Formation: **Toronto-LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:11:05

Time Test Ended: 19:22:35

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3348.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Total Depth: 3430.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2176.00 ft (KB)

2171.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 155.81 psig @ 3353.00 ft (KB)

Start Date: 2007.09.23

End Date:

2007.09.23

Start Time: 12:05:36

End Time:

19:22:35

Capacity: 7000.00 psig

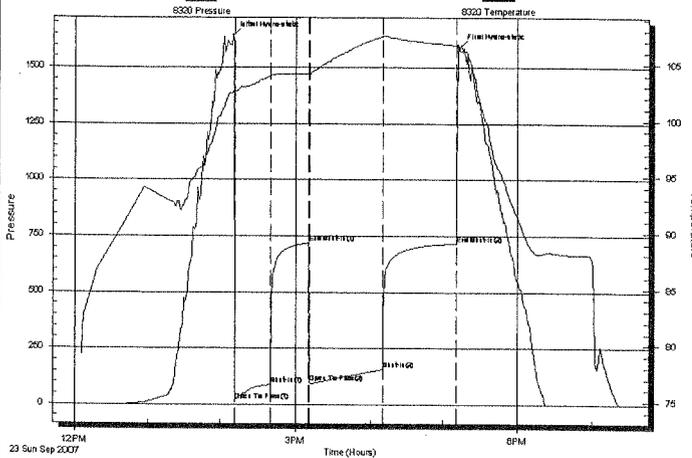
Last Calib.: 2007.09.23

Time On Btm: 2007.09.23 @ 14:10:05

Time Off Btm: 2007.09.23 @ 17:13:05

TEST COMMENT: IFP Weak blow built to 6.5 "
ISI No blow back
FFP Weak surface blow built to BOB in 53 min
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.65	102.53	Initial Hydro-static
1	17.15	102.51	Open To Flow (1)
30	88.87	103.97	Shut-In(1)
60	718.21	104.17	End Shut-In(1)
61	95.90	103.93	Open To Flow (2)
120	155.81	107.49	Shut-In(2)
180	716.75	106.72	End Shut-In(2)
183	1589.83	106.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 95%W 5%M	0.59
60.00	MW 70%W 30%M	0.83
120.00	WM 10%W 90%M	1.70

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

ATTN: Brad Hutchison

Job Ticket: 30598

DST#: 1

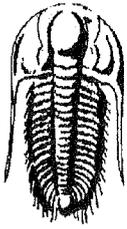
Test Start: 2007.09.23 @ 12:05:35

Tool Information

Drill Pipe:	Length: 3224.00 ft	Diameter: 3.82 inches	Volume: 45.70 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	46.30 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3348.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	103.00 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			3328.00	
Shut In Tool	5.00			3333.00	
Hydraulic tool	5.00			3338.00	
Packer	5.00			3343.00	21.00 Bottom Of Top Packer
Packer	5.00			3348.00	
Stubb	1.00			3349.00	
Perforations	3.00			3352.00	
Change Over Sub	1.00			3353.00	
Recorder	0.00	8320	Inside	3353.00	
Blank Spacing	63.00			3416.00	
Change Over Sub	1.00			3417.00	
Perforations	10.00			3427.00	
Recorder	0.00	6246	Inside	3427.00	
Bullnose	3.00			3430.00	82.00 Bottom Packers & Anchor
Total Tool Length:	103.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

Job Ticket: 30598

DST#: 1

ATTN: Brad Hutchison

Test Start: 2007.09.23 @ 12:05:35

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:	44000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 95%W 5%M	0.590
60.00	MW 70%W 30%M	0.832
120.00	WM 10%W 90%M	1.701

Total Length: 300.00 ft Total Volume: 3.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

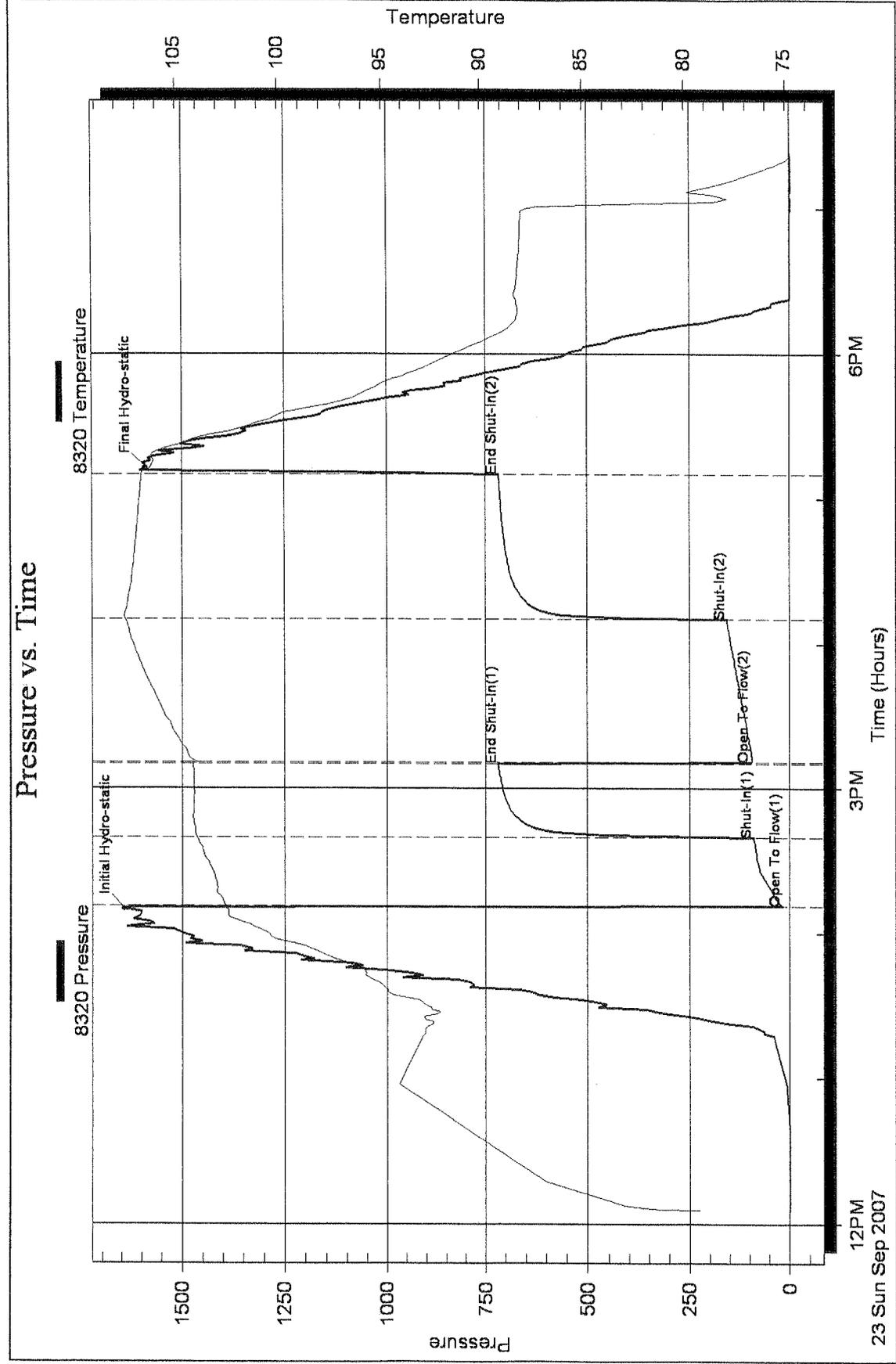
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

31 7 21 Graham KS

Van Loenen B #1

Start Date: 2007.09.24 @ 01:29:41

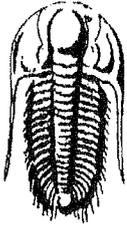
End Date: 2007.09.24 @ 06:02:11

Job Ticket #: 30599 DST #: 2

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 Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

Job Ticket: 30599

DST#: 2

ATTN: Brad Hutchison

Test Start: 2007.09.24 @ 01:29:41

GENERAL INFORMATION:

Formation: **LKC"D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:44:41

Time Test Ended: 06:02:11

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3430.00 ft (KB) To 3450.00 ft (KB) (TVD)**

Total Depth: 3450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2176.00 ft (KB)

2171.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 20.59 psig @ 3434.00 ft (KB)

Start Date: 2007.09.24

End Date:

2007.09.24

Capacity: 7000.00 psig

Start Time: 01:29:42

End Time:

06:02:11

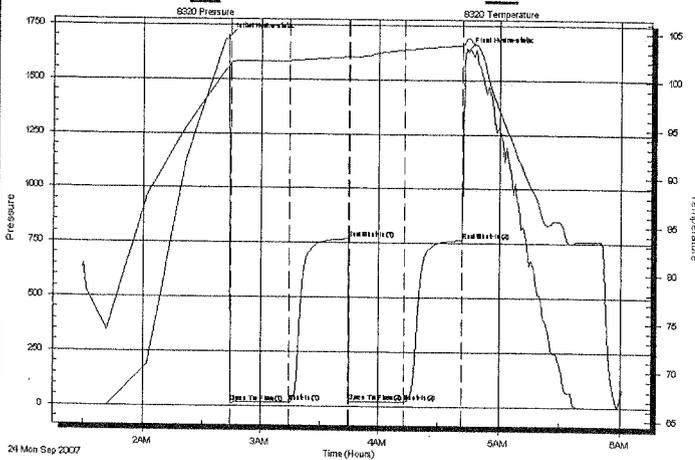
Last Calib.: 2007.09.24

Time On Btm: 2007.09.24 @ 02:43:41

Time Off Btm: 2007.09.24 @ 04:44:11

TEST COMMENT: IFP Weak surface blow throughout
ISI No blow back
FFP Weak surface blow died in 10 min
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.05	101.29	Initial Hydro-static
1	13.48	101.83	Open To Flow (1)
31	16.90	102.06	Shut-In(1)
61	768.05	102.50	End Shut-In(1)
62	18.72	102.48	Open To Flow (2)
90	20.59	103.25	Shut-In(2)
118	764.22	103.73	End Shut-In(2)
121	1635.56	104.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud w/scum of Oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

Job Ticket: 30599

DST#: 2

ATTN: Brad Hutchison

Test Start: 2007.09.24 @ 01:29:41

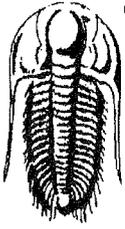
Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.82 inches	Volume: 47.02 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 47.62 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3430.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	41.00 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			3410.00	
Shut In Tool	5.00			3415.00	
Hydraulic tool	5.00			3420.00	
Packer	5.00			3425.00	21.00 Bottom Of Top Packer
Packer	5.00			3430.00	
Stubb	1.00			3431.00	
Perforations	3.00			3434.00	
Recorder	0.00	8320	Inside	3434.00	
Perforations	13.00			3447.00	
Recorder	0.00	6246	Inside	3447.00	
Bullnose	3.00			3450.00	20.00 Bottom Packers & Anchor

Total Tool Length: 41.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

Job Ticket: 30599

DST#: 2

ATTN: Brad Hutchison

Test Start: 2007.09.24 @ 01:29:41

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud w/scum of Oil	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 #: 8320

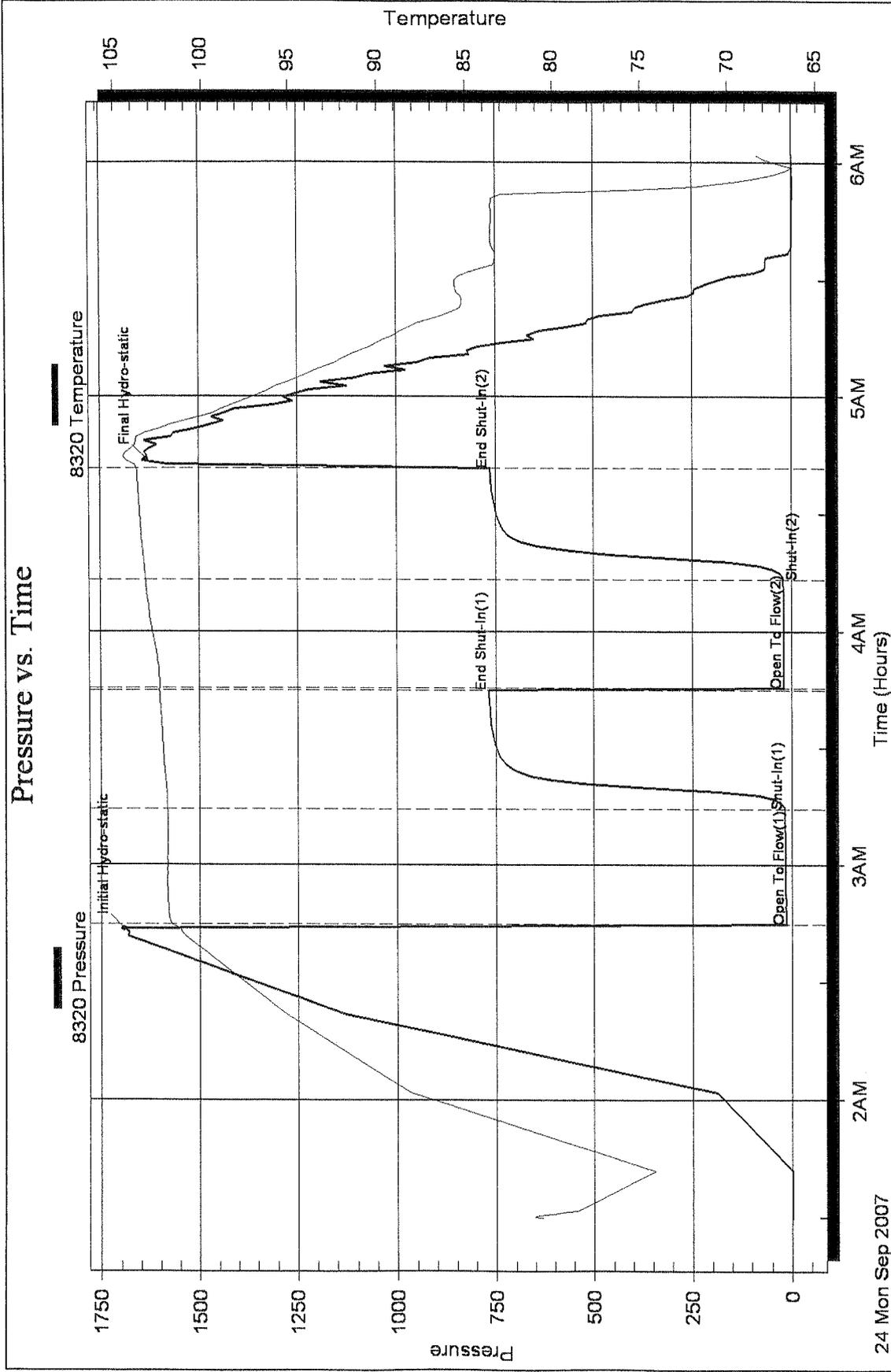
Inside

John O Farmer Inc

31 7 21 Graham KS

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

31 7 21 Graham KS

Van Loenen B #1

Start Date: 2007.09.24 @ 11:49:27

End Date: 2007.09.24 @ 18:32:27

Job Ticket #: 30600 DST #: 3

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 Inc

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

Van Loenen B #1

31 7 21 Graham KS

Job Ticket: 30600

DST#: 3

Test Start: 2007.09.24 @ 11:49:27

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:41:27

Time Test Ended: 18:32:27

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3446.00 ft (KB) To 3475.00 ft (KB) (TVD)**

Total Depth: 3475.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2176.00 ft (KB)

2171.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 426.11 psig @ 3450.00 ft (KB)

Start Date: 2007.09.24

End Date:

2007.09.24

Capacity: 7000.00 psig

Last Calib.:

2007.09.24

Start Time: 11:49:28

End Time:

18:32:27

Time On Btm:

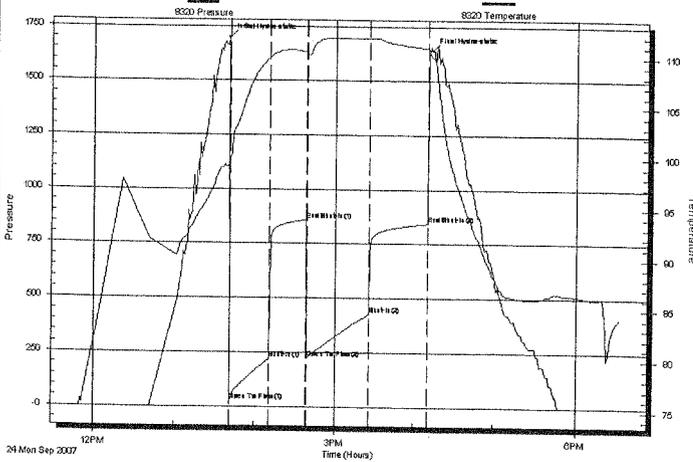
2007.09.24 @ 13:40:27

Time Off Btm:

2007.09.24 @ 16:13:27

TEST COMMENT: IFP BOB in 6 min
ISI Weak surface blow back died in 3 min
FFP BOB in 6.5 min
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

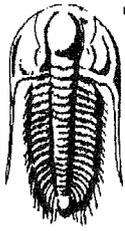
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.10	99.41	Initial Hydro-static
1	26.56	100.13	Open To Flow (1)
30	219.44	109.92	Shut-In(1)
58	859.63	110.51	End Shut-In(1)
59	224.90	110.40	Open To Flow(2)
106	426.11	111.83	Shut-In(2)
150	843.03	110.90	End Shut-In(2)
153	1638.41	110.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	Water	4.82
180.00	MW 90%W 10%M	2.55
150.00	MW 50%W 50%M	2.13

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

Job Ticket: 30600

DST#: 3

ATTN: Brad Hutchison

Test Start: 2007.09.24 @ 11:49:27

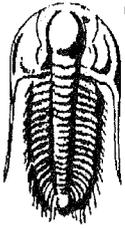
Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.82 inches	Volume: 47.02 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3446.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	50.00 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			3426.00	
Shut In Tool	5.00			3431.00	
Hydraulic tool	5.00			3436.00	
Packer	5.00			3441.00	21.00 Bottom Of Top Packer
Packer	5.00			3446.00	
Stubb	1.00			3447.00	
Perforations	3.00			3450.00	
Recorder	0.00	8320	Inside	3450.00	
Perforations	22.00			3472.00	
Recorder	0.00	6246	Inside	3472.00	
Bullnose	3.00			3475.00	29.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

ATTN: Brad Hutchison

Job Ticket: 30600

DST#: 3

Test Start: 2007.09.24 @ 11:49:27

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 48000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	Water	4.824
180.00	MW 90%W 10%M	2.552
150.00	MW 50%W 50%M	2.126

Total Length: 750.00 ft Total Volume: 9.502 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

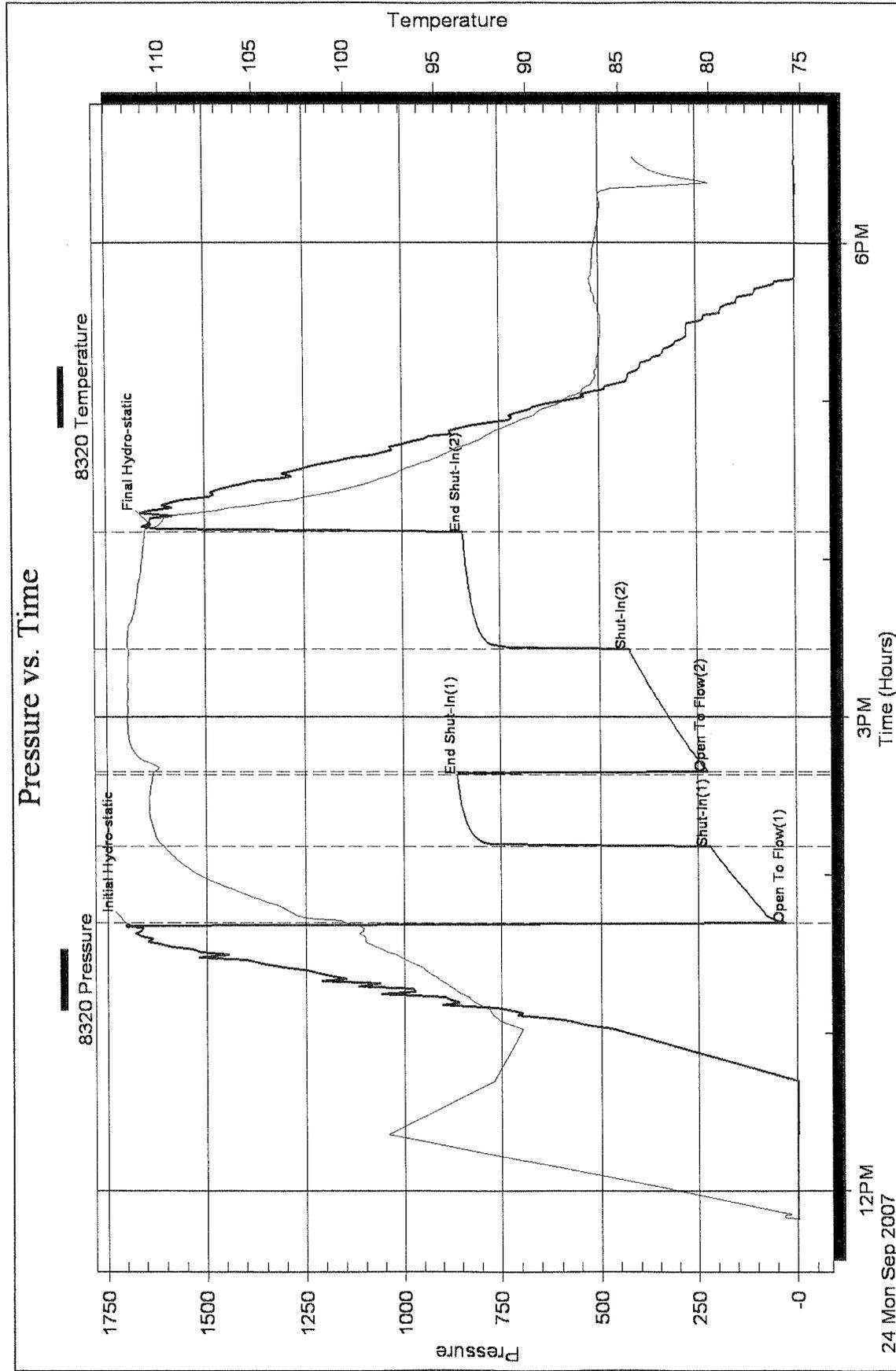
Serial #:

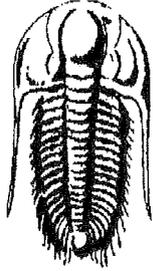
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

31 7 21 Graham KS

Van Loenen B #1

Start Date: 2007.09.25 @ 22:53:38

End Date: 2007.09.26 @ 05:07:08

Job Ticket #: 30551 DST #: 4

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 Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

Job Ticket: 30551

DST#: 4

ATTN: Brad Hutchison

Test Start: 2007.09.25 @ 22:53:38

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:24:08

Time Test Ended: 05:07:08

Test Type: Conventional Straddle

Tester: Tyson Flax

Unit No: 21

Interval: **3660.00 ft (KB) To 3696.00 ft (KB) (TVD)**

Total Depth: 3739.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2176.00 ft (KB)

2171.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 73.80 psig @ 3665.00 ft (KB)

Start Date: 2007.09.25

End Date:

2007.09.26

Capacity: 7000.00 psig

Last Calib.: 2007.09.26

Start Time: 22:53:39

End Time:

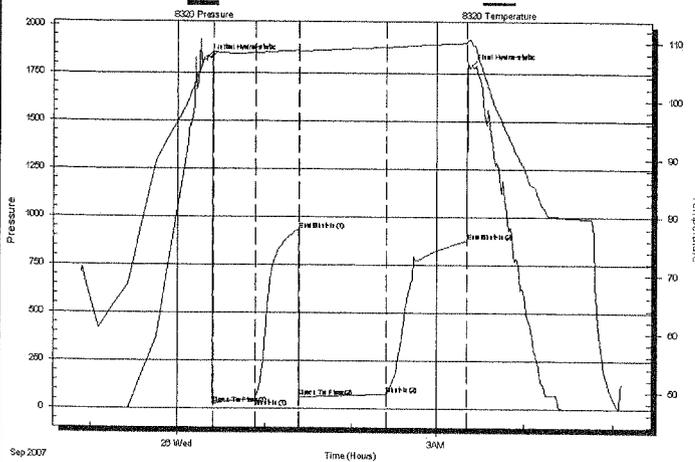
05:07:08

Time On Btm: 2007.09.26 @ 00:22:38

Time Off Btm: 2007.09.26 @ 03:23:08

TEST COMMENT: IFP Weak surface blow built to 5 "
ISI Weak surface blow back died in 10 min
FFP Weak surface blow built to 7 "
FSI Weak surface blow back died in 4 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.52	107.93	Initial Hydro-static
2	21.29	108.16	Open To Flow (1)
31	51.48	108.14	Shut-In(1)
61	931.87	108.62	End Shut-In(1)
61	58.00	108.56	Open To Flow (2)
122	73.80	109.18	Shut-In(2)
179	874.94	109.93	End Shut-In(2)
181	1778.61	110.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	MCO 50%O 50%M	0.30
61.00	MO 80%O 20%M	0.30
30.00	SMCO 95%O 5%M	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

Job Ticket: 30551

DST#: 4

ATTN: Brad Hutchison

Test Start: 2007.09.25 @ 22:53:38

Tool Information

Drill Pipe:	Length: 3538.00 ft	Diameter: 3.82 inches	Volume: 50.15 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	50.75 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3660.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	3696.00 ft			
Interval between Packers:	36.00 ft			
Tool Length:	101.00 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			3640.00	
Shut In Tool	5.00			3645.00	
Hydraulic tool	5.00			3650.00	
Packer	5.00			3655.00	21.00 Bottom Of Top Packer
Packer	5.00			3660.00	
Stubb	1.00			3661.00	
Perforations	4.00			3665.00	
Recorder	0.00	8320	Inside	3665.00	
Perforations	27.00			3692.00	
Recorder	0.00	6246	Inside	3692.00	
Blank Off Sub	1.00			3693.00	
Stubb	3.00			3696.00	36.00 Tool Interval
Packer	1.00			3697.00	
Stubb	1.00			3698.00	
Perforations	4.00			3702.00	
Change Over Sub	1.00			3703.00	
Blank Spacing	31.00			3734.00	
Change Over Sub	1.00			3735.00	
Perforations	2.00			3737.00	
Recorder	0.00	13401	Outside	3737.00	
Bullnose	3.00			3740.00	44.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

Job Ticket: 30551

DST#: 4

ATTN: Brad Hutchison

Test Start: 2007.09.25 @ 22:53:38

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: bbl		
Water Loss: 8.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	MCO 50%O 50%M	0.300
61.00	MO 80%O 20%M	0.300
30.00	SMCO 95%O 5%M	0.425

Total Length: 152.00 ft Total Volume: 1.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

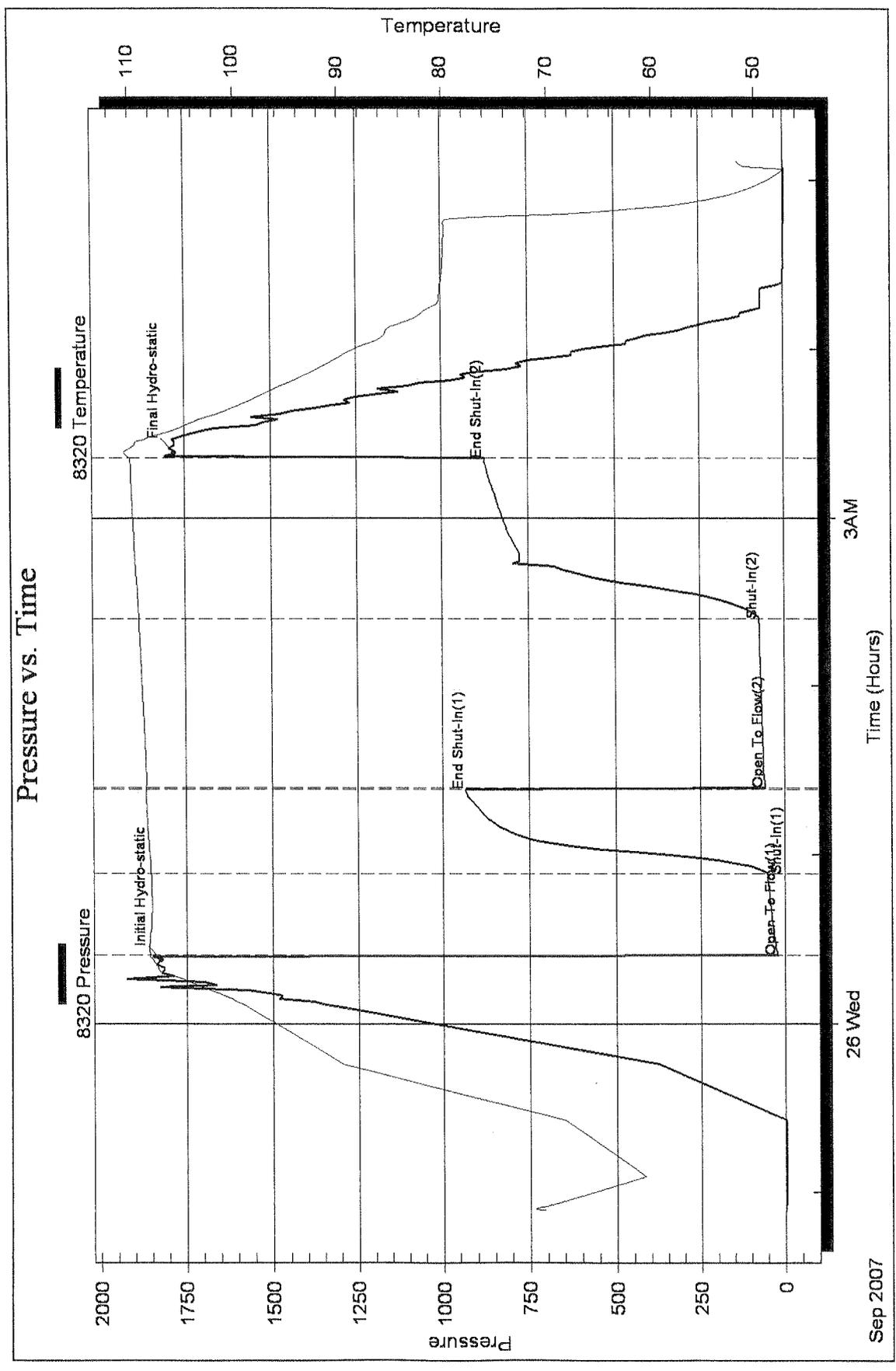
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

31 7 21 Graham KS

Van Loenen B #1

Start Date: 2007.09.26 @ 05:35:59

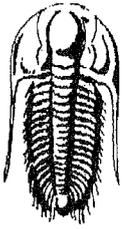
End Date: 2007.09.26 @ 12:22:45

Job Ticket #: 30552 DST #: 5

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 Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

ATTN: Brad Hutchison

Job Ticket: 30552

DST#: 5

Test Start: 2007.09.26 @ 05:35:59

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:29:45

Time Test Ended: 12:22:45

Test Type: Conventional Straddle

Tester: Tyson Flax

Unit No: 21

Interval: **3696.00 ft (KB) To 3712.00 ft (KB) (TVD)**

Total Depth: 3739.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2176.00 ft (KB)

2171.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320

Inside

Press@RunDepth: 98.09 psig @ 3703.00 ft (KB)

Start Date: 2007.09.26

End Date:

2007.09.26

Start Time: 05:36:00

End Time:

12:22:45

Capacity: 7000.00 psig

Last Calib.: 2007.09.26

Time On Btm: 2007.09.26 @ 07:28:15

Time Off Btm: 2007.09.26 @ 10:32:15

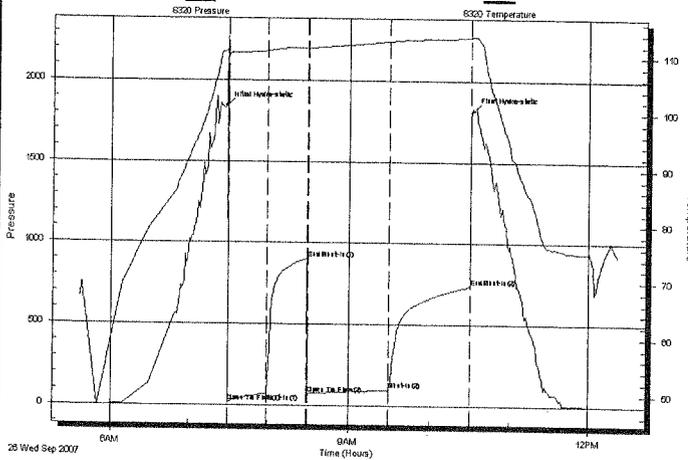
TEST COMMENT: IFP Weak surface blow built to 5 "

ISI No blow back

FFP Weak surface blow built to 4.5 "

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.61	111.01	Initial Hydro-static
2	19.43	110.62	Open To Flow (1)
31	70.67	111.01	Shut-In(1)
61	902.16	111.63	End Shut-In(1)
61	73.55	111.44	Open To Flow (2)
121	98.09	112.77	Shut-In(2)
182	734.85	113.41	End Shut-In(2)
184	1816.21	113.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	MW 95%W 5%M	0.30
61.00	MW w/scum of Oil 80%W 20%M	0.30
59.00	SOCWM 5%O 40%W 55%M	0.84
2.00	CO	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

Job Ticket: 30552

DST#: 5

ATTN: Brad Hutchison

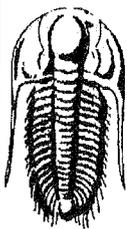
Test Start: 2007.09.26 @ 05:35:59

Tool Information

Drill Pipe:	Length: 3568.00 ft	Diameter: 3.82 inches	Volume: 50.58 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3696.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3712.00 ft			
Interval between Packers:	16.00 ft			
Tool Length:	65.00 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			3676.00	
Shut In Tool	5.00			3681.00	
Hydraulic tool	5.00			3686.00	
Packer	5.00			3691.00	21.00 Bottom Of Top Packer
Packer	5.00			3696.00	
Stubb	1.00			3697.00	
Perforations	6.00			3703.00	
Recorder	0.00	8320	Inside	3703.00	
Perforations	5.00			3708.00	
Recorder	0.00	6246	Inside	3708.00	
Blank Off Sub	1.00			3709.00	
Stubb	3.00			3712.00	16.00 Tool Interval
Packer	1.00			3713.00	
Stubb	1.00			3714.00	
Perforations	26.00			3740.00	
Recorder	0.00	13401	Outside	3740.00	28.00 Bottom Packers & Anchor
Total Tool Length:	65.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Van Loenen B #1

PO Box 352
Russell KS 67665

31 7 21 Graham KS

ATTN: Brad Hutchison

Job Ticket: 30552

DST#: 5

Test Start: 2007.09.26 @ 05:35:59

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:	21000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	MW 95%W 5%M	0.300
61.00	MW w /scum of Oil 80%W 20%M	0.300
59.00	SOCWM 5%O 40%W 55%M	0.836
2.00	CO	0.028

Total Length: 183.00 ft Total Volume: 1.464 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8320

Inside

John O Farmer Inc

317 21 Graham KS

DST Test Number: 5

Pressure vs. Time

