

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

8-9s-21w Graham Ks

Swenson A #3

Start Date: 2004.09.10 @ 13:07:34

End Date: 2004.09.10 @ 18:36:33

Job Ticket #: 18503 DST #: 1

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

John O Farmer Inc

Swenson A #3

8-9s-21w Graham Ks

DST # 1

LKC "A"

2004.09.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18503

DST#: 1

ATTN: John O Farmer IV

Test Start: 2004.09.10 @ 13:07:34

GENERAL INFORMATION:

Formation: **LKC "A"**

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

Time Tool Opened: 14:34:03

Time Test Ended: 18:36:33

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3442.00 ft (KB) To 3470.00 ft (KB) (TVD)**

Reference Elevations: **2258.00 ft (KB)**

Total Depth: **3470.00 ft (KB) (TVD)**

2250.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

KB to GR/CF: 8.00 ft

Serial #: 6668

Inside

Press@RunDepth: **75.86 psig @ 3443.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.09.10**

End Date:

2004.09.10

Last Calib.: **2004.09.10**

Start Time: **13:07:34**

End Time:

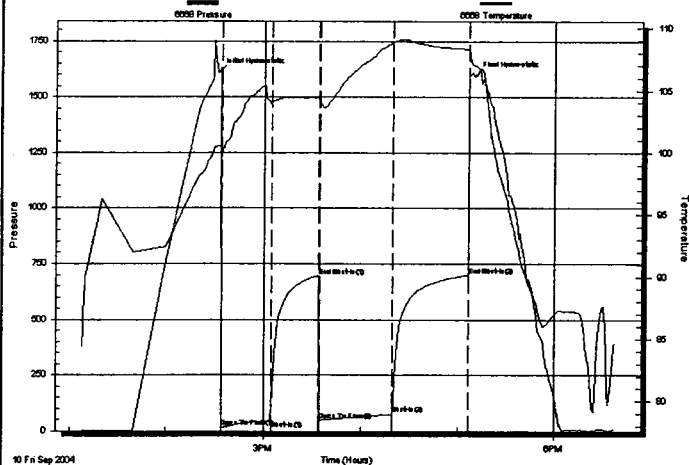
18:36:33

Time On Btrt: **2004.09.10 @ 14:32:03**

Time Off Btrt: **2004.09.10 @ 17:10:33**

TEST COMMENT: FFP-w k bl thru-out 1/4" to 2" bl
FFP-w k bl thru-out 1/4" to 1" bl
Times 30-30-45-45
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

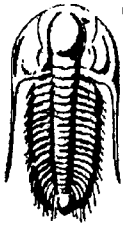
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1611.49	100.50	Initial Hydro-static
2	15.99	99.69	Open To Flow (1)
33	45.73	103.99	Shut-In(1)
62	695.06	104.45	End Shut-In(1)
63	45.80	104.20	Open To Flow (2)
107	75.86	108.84	Shut-In(2)
154	700.43	108.33	End Shut-In(2)
159	1594.81	106.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	MW 75%w ater 25% mud	1.47
0.00	w/show of oil on top of fluid	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

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18503 DST#: 1

ATTN: John O Farmer IV

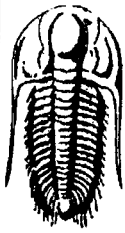
Test Start: 2004.09.10 @ 13:07:34

Tool Information

Drill Pipe:	Length: 3451.00 ft	Diameter: 3.80 inches	Volume: 48.41 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3442.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.02 ft			
Tool Length:	49.02 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			3422.00	
Shut In Tool	5.00			3427.00	
Hydraulic tool	5.00			3432.00	
Packer	5.00			3437.00	21.00 Bottom Of Top Packer
Packer	5.00			3442.00	
Stubb	1.00			3443.00	
Recorder	0.01	6668	Inside	3443.01	
Perforations	24.00			3467.01	
Recorder	0.01	13534	Outside	3467.02	
Bullnose	3.00			3470.02	28.02 Bottom Packers & Anchor
Total Tool Length:	49.02				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18503

DST#: 1

ATTN: John O Farmer IV

Test Start: 2004.09.10 @ 13:07:34

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:

52000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.93 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	MV 75%w ater 25%mud	1.473
0.00	w/show of oil on top of fluid	0.000

Total Length: 105.00 ft

Total Volume: 1.473 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.15@70F

Serial #: 6668

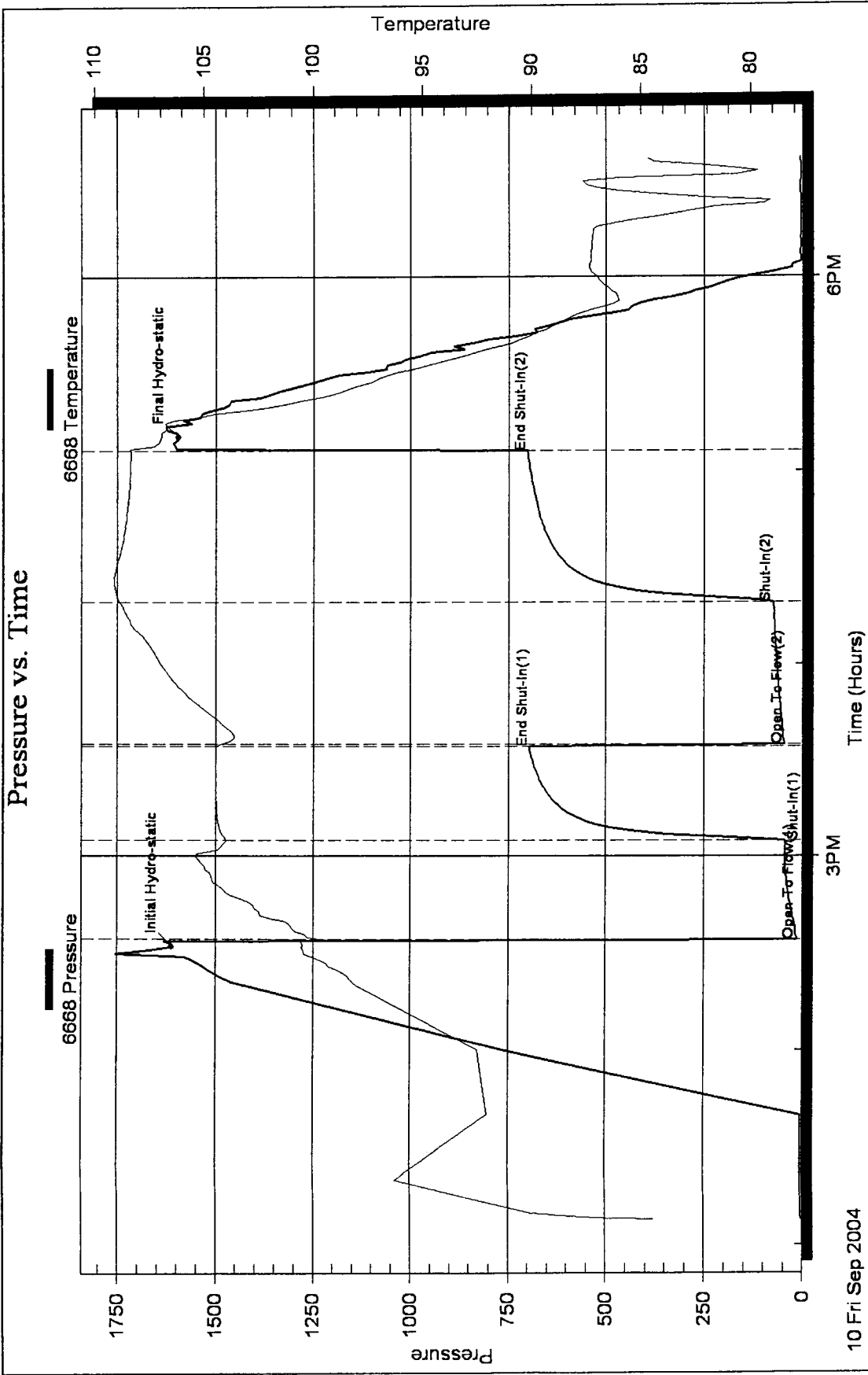
Inside

John O Farmer Inc

8-9s-21w Graham Ks

DST Test Number: 1

Pressure vs. Time

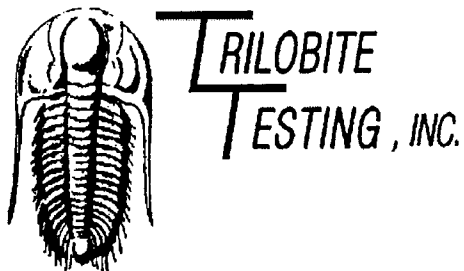


10 Fri Sep 2004

Trilobite Testing, Inc

Ref. No: 18503

Printed: 2004.09.16 @ 13:22:48 Page 5



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

8-9s-21w Graham Ks

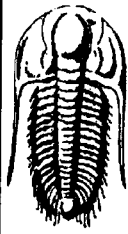
Swenson A #3

Start Date: 2004.09.11 @ 00:10:27

End Date: 2004.09.11 @ 05:34:26

Job Ticket #: 18504 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

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18504

DST#: 2

ATTN: John O Farmer IV

Test Start: 2004.09.11 @ 00:10:27

GENERAL INFORMATION:

Formation: **LKC "C"**

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

Time Tool Opened: 01:58:56

Time Test Ended: 05:34:26

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3475.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Reference Elevations: **2258.00 ft (KB)**

Total Depth: **3500.00 ft (KB) (TVD)**

2250.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

KB to GR/CF: **8.00 ft**

Serial #: 6668 **Inside**

Press@RunDepth: **167.90 psig @ 3476.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.09.11**

End Date: **2004.09.11**

Last Calib.: **2004.09.11**

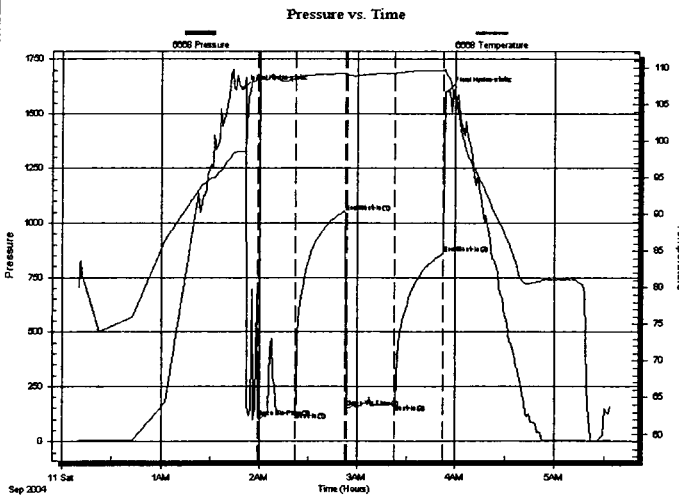
Start Time: **00:10:27**

End Time: **05:34:26**

Time On Btm: **2004.09.11 @ 01:49:56**

Time Off Btm: **2004.09.11 @ 03:55:26**

TEST COMMENT: FFP-strg bl thru-out
FFP-w k bl thru-out 1/2" to 2" bl
Times 30-30-30-30
no bl on shut-in



PRESSURE SUMMARY

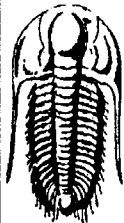
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.69	98.63	Initial Hydro-static
9	106.62	108.39	Open To Flow (1)
32	135.34	108.58	Shut-In(1)
63	1047.22	109.25	End Shut-In(1)
64	152.26	109.06	Open To Flow (2)
93	167.90	109.23	Shut-In(2)
123	859.37	109.68	End Shut-In(2)
126	1603.86	108.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	1.68
180.00	O&GCM 14%gas 15%oil 71%mud	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18504

DST#: 2

ATTN: John O Farmer IV

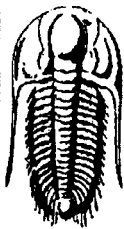
Test Start: 2004.09.11 @ 00:10:27

Tool Information

Drill Pipe:	Length: 3484.00 ft	Diameter: 3.80 inches	Volume: 48.87 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3475.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.02 ft			
Tool Length:	46.02 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			3455.00	
Shut In Tool	5.00			3460.00	
Hydraulic tool	5.00			3465.00	
Packer	5.00			3470.00	21.00 Bottom Of Top Packer
Packer	5.00			3475.00	
Stubb	1.00			3476.00	
Recorder	0.01	6668	Inside	3476.01	
Perforations	21.00			3497.01	
Recorder	0.01	13534	Outside	3497.02	
Bullnose	3.00			3500.02	25.02 Bottom Packers & Anchor
Total Tool Length:	46.02				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18504

DST#: 2

ATTN: John O Farmer IV

Test Start: 2004.09.11 @ 00:10:27

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.90 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud	1.683
180.00	O&GCM 14%gas 15%oil 71%mud	2.525

Total Length: 300.00 ft

Total Volume: 4.208 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

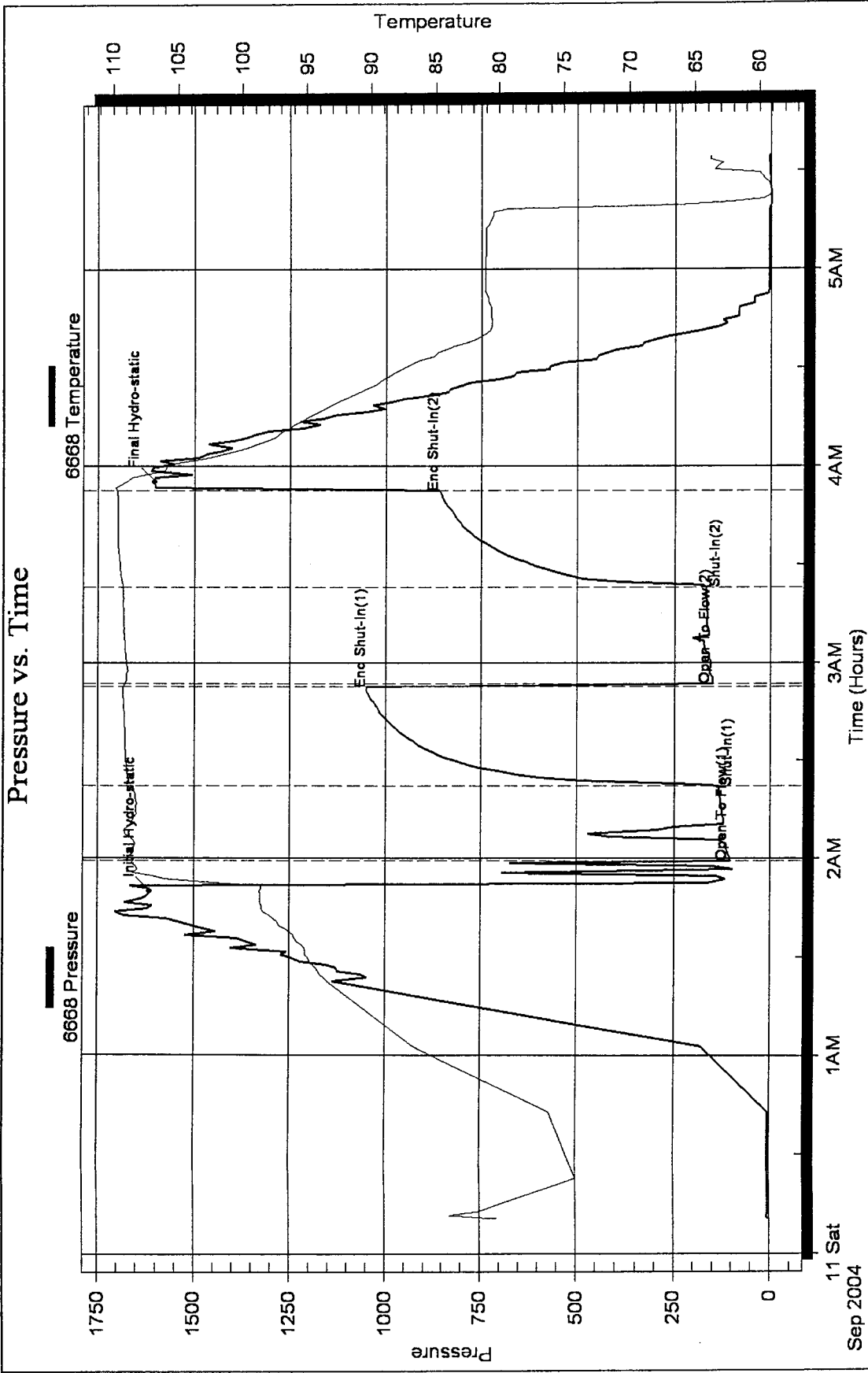
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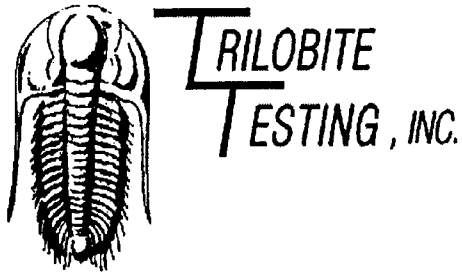
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

8-9s-21w Graham Ks

Swenson A #3

Start Date: 2004.09.11 @ 11:28:54

End Date: 2004.09.11 @ 16:24:23

Job Ticket #: 18505 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

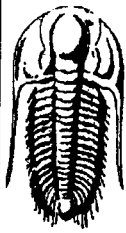
Swenson A #3

8-9s-21w Graham Ks

DST # 3

LKC D-F

2004.09.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

Swenson A #3

8-9s-21w Graham Ks

Job Ticket: 18505

DST#: 3

Test Start: 2004.09.11 @ 11:28:54

GENERAL INFORMATION:

Formation: **LKC D-F**

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

Time Tool Opened: 12:44:23

Time Test Ended: 16:24:23

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3499.00 ft (KB) To 3545.00 ft (KB) (TVD)**

Reference Elevations: **2258.00 ft (KB)**

Total Depth: **3545.00 ft (KB) (TVD)**

2250.00 ft (CF)

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

KB to GR/CF: **8.00 ft**

Serial #: 6668

Inside

Press@RunDepth: **128.45 psig @ 3510.01 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2004.09.11**

End Date: **2004.09.11**

Last Calib.: **2004.09.11**

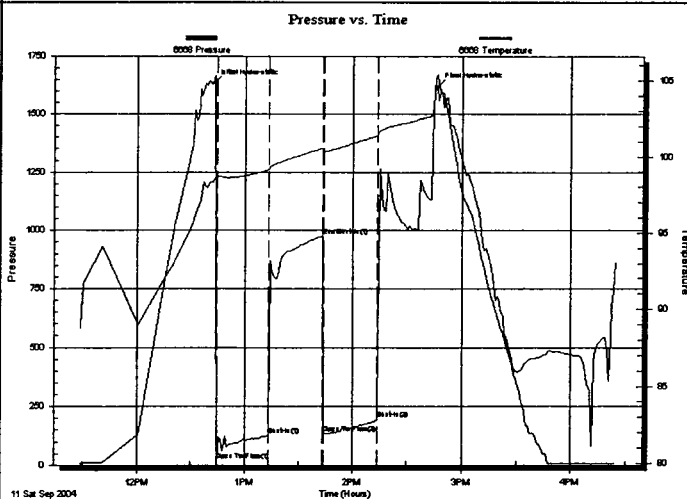
Start Time: **11:28:54**

End Time: **16:24:23**

Time On Btm: **2004.09.11 @ 12:42:23**

Time Off Btm: **2004.09.11 @ 14:46:23**

TEST COMMENT: FFP-wk to strg in 6 min
FFP-wk to a fr bl surface bl to 4" bl
Times 30-30-30-30
no bl on shut-in



PRESSURE SUMMARY

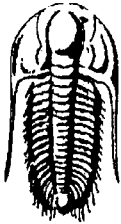
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.55	98.34	Initial Hydro-static
2	18.01	98.69	Open To Flow (1)
31	128.45	99.14	Shut-In(1)
61	977.41	100.56	End Shut-In(1)
62	137.30	100.37	Open To Flow (2)
92	195.55	101.38	Shut-In(2)
124	1619.81	105.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	GCM 15%gas 85%mud	4.77

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18505 **DST#: 3**

ATTN: John O Farmer IV

Test Start: 2004.09.11 @ 11:28:54

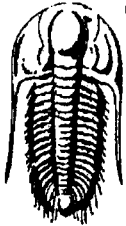
Tool Information

Drill Pipe:	Length: 3484.00 ft	Diameter: 3.80 inches	Volume: 48.87 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3499.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.02 ft			
Tool Length:	67.02 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			3479.00	
Shut In Tool	5.00			3484.00	
Hydraulic tool	5.00			3489.00	
Packer	5.00			3494.00	21.00 Bottom Of Top Packer
Packer	5.00			3499.00	
Stubb	1.00			3500.00	
Perforations	10.00			3510.00	
Recorder	0.01	6668	Inside	3510.01	
Perforations	32.00			3542.01	
Recorder	0.01	13534	Outside	3542.02	
Bullnose	3.00			3545.02	46.02 Bottom Packers & Anchor

Total Tool Length: 67.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18505

DST#: 3

ATTN: John O Farmer IV

Test Start: 2004.09.11 @ 11:28:54

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: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
340.00	GCM 15%gas 85%mud	4.769

Total Length: 340.00 ft

Total Volume: 4.769 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

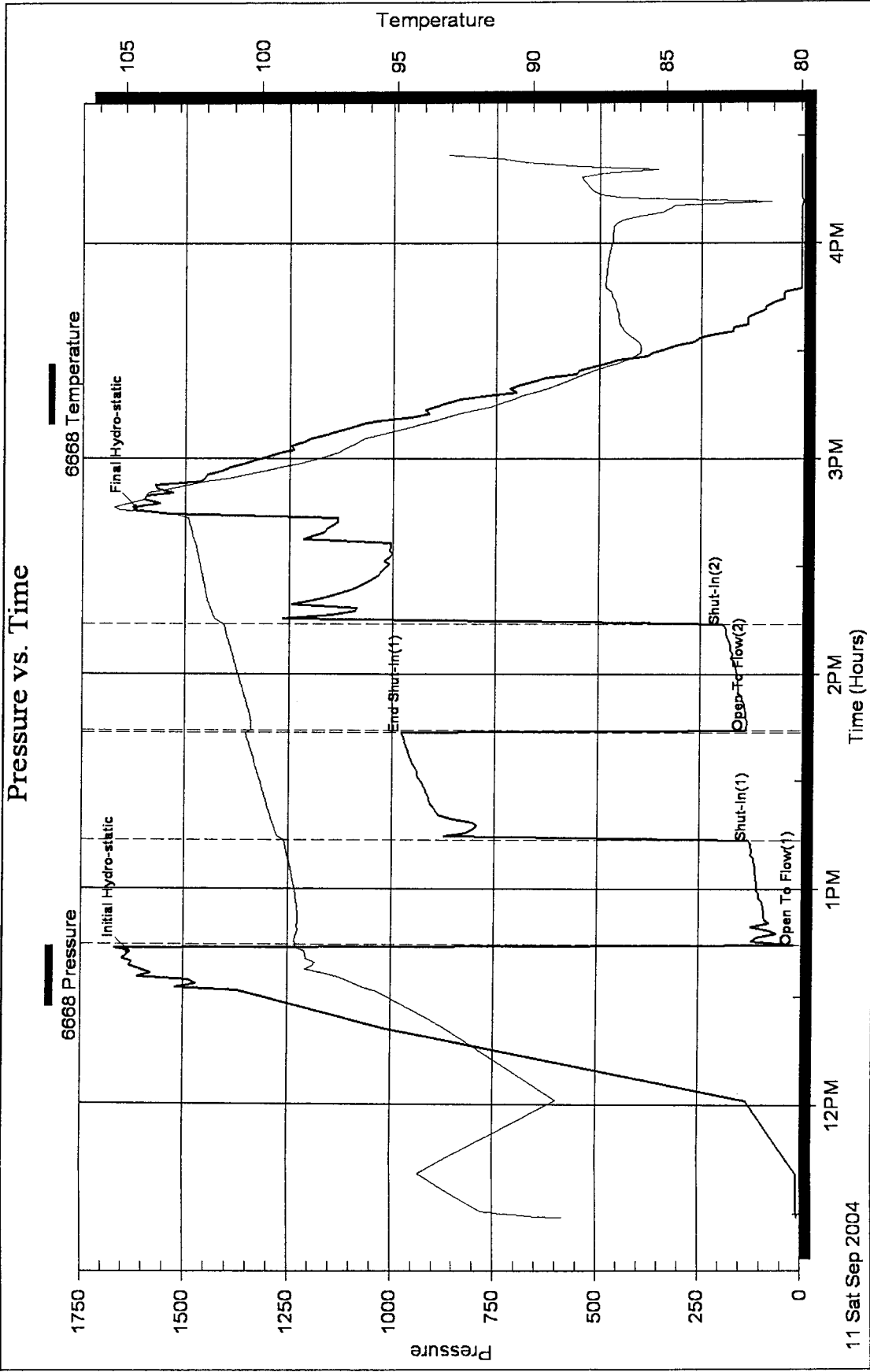
Serial #:

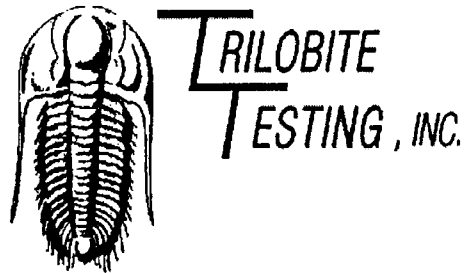
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

8-9s-21w Graham Ks

Swenson A #3

Start Date: 2004.09.12 @ 09:21:20

End Date: 2004.09.12 @ 15:24:19

Job Ticket #: 18506 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

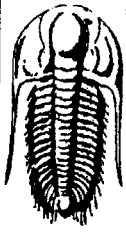
Swenson A #3

8-9s-21w Graham Ks

DST # 4

Arbuckle

2004.09.12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

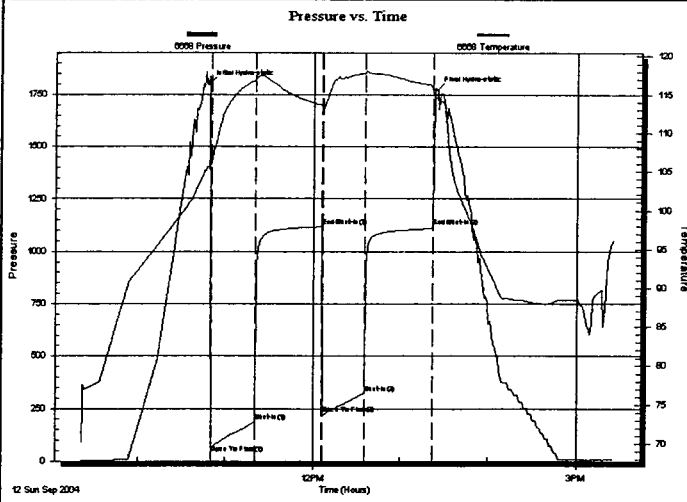
Swenson A #3
8-9s-21w Graham Ks
 Job Ticket: 18506 **DST#: 4**
 Test Start: 2004.09.12 @ 09:21:20

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No Whipstock:** **ft (KB)**
 Time Tool Opened: 10:50:19
 Time Test Ended: 15:24:19
 Interval: **3744.00 ft (KB) To 3774.00 ft (KB) (TVD)**
 Total Depth: **3774.00 ft (KB) (TVD)**
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Ray Schwager**
 Unit No: **28**
 Reference Elevations: **2258.00 ft (KB)**
 2250.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6668 **Inside**
 Press@RunDepth: **322.66 psig @ 3745.01 ft (KB)**
 Start Date: **2004.09.12** End Date: **2004.09.12**
 Start Time: **09:21:20** End Time: **15:24:19**
 Capacity: **7000.00 psig**
 Last Calib.: **2004.09.12**
 Time On Btrm **2004.09.12 @ 10:48:19**
 Time Off Btrm **2004.09.12 @ 13:24:49**

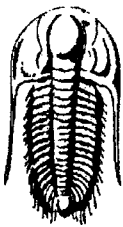
TEST COMMENT: FFP-wk to strg in 4 min
 FFP-w k to strg in 6 min
 ISP-w k bl bk 1/8"bl, FSP-w k bl bk 1/4"bl
 Times 30-45-30-45



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.66	105.65	Initial Hydro-static
2	37.13	106.00	Open To Flow (1)
32	189.30	116.83	Shut-In(1)
78	1117.49	113.60	End Shut-In(1)
79	222.93	113.22	Open To Flow (2)
107	322.66	117.74	Shut-In(2)
154	1120.67	115.41	End Shut-In(2)
157	1773.74	114.64	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
650.00	CO	9.12
124.00	HO&GCWM 25gas20oil25w ater30mud	1.74
0.00	340GIP	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

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18506

DST#: 4

ATTN: John O Farmer IV

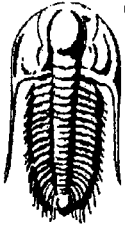
Test Start: 2004.09.12 @ 09:21:20

Tool Information

Drill Pipe:	Length: 3754.00 ft	Diameter: 3.80 inches	Volume: 52.66 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 52.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3744.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.02 ft			
Tool Length:	51.02 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			3724.00	
Shut In Tool	5.00			3729.00	
Hydraulic tool	5.00			3734.00	
Packer	5.00			3739.00	21.00 Bottom Of Top Packer
Packer	5.00			3744.00	
Stubb	1.00			3745.00	
Recorder	0.01	6668	Inside	3745.01	
Perforations	26.00			3771.01	
Recorder	0.01	13534	Outside	3771.02	
Bullnose	3.00			3774.02	30.02 Bottom Packers & Anchor
Total Tool Length:	51.02				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Swenson A #3

P O Box 352
Russell Ks 67665

8-9s-21w Graham Ks

Job Ticket: 18506

DST#: 4

ATTN: John O Farmer IV

Test Start: 2004.09.12 @ 09:21:20

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
650.00	CO	9.118
124.00	HO&GCVM 25gas 20oil 25w ater 30mud	1.739
0.00	340GIP	0.000

Total Length: 774.00 ft

Total Volume: 10.857 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

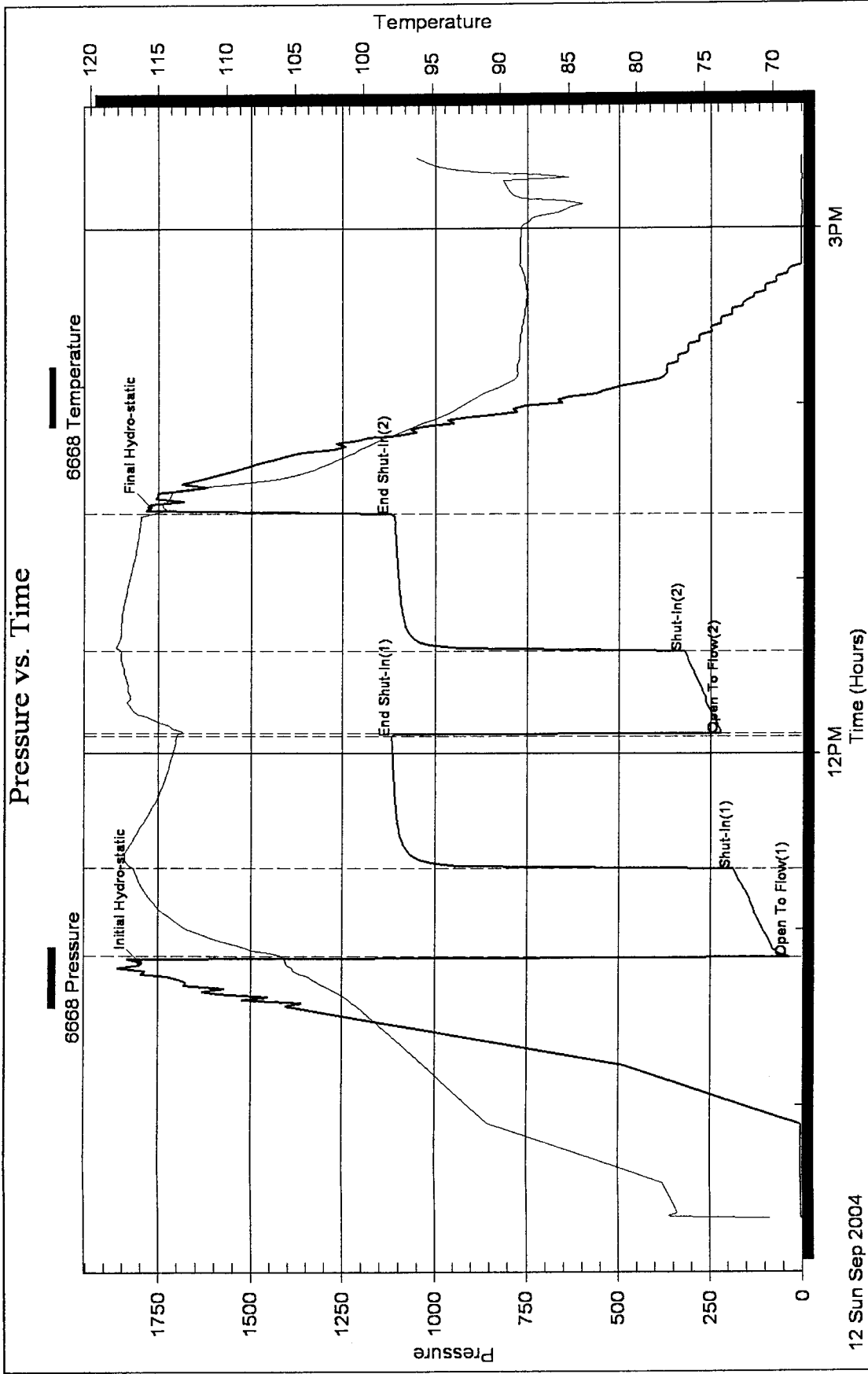
Serial #:

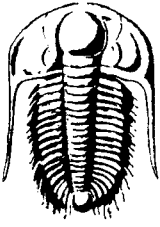
Laboratory Name:

Laboratory Location:

Recovery Comments: RW.20@75F

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 0763

No 18503

05/03

Test Ticket

Well Name & No. Swenson A #3 Test No. 1 Date 9-10-04
 Company John O. Farmer Inc Zone Tested LKC 'A'
 Address P.O. Box 352 Russell Ks 67665 Elevation 2258 KB 2250 GL
 Co. Rep / Geo. MATT Drilling Cont. Discovery rig 1 Est. Ft. of Pay - Por. - %
 Location: Sec. B Twp. 9^s Rge. 21^w Co. GRAHAM State K
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3442-3470 Initial Str Wt./Lbs. 47000 Unseated Str Wt./Lbs. 47000
 Anchor Length 28 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 55000
 Top Packer Depth 3437 Tool Weight 2200
 Bottom Packer Depth 3442 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3470 Wt. Pipe Run - Drill Collar Run -
 Mud Wt. 8.8 LCM - Vis. 45 WL 8 Drill Pipe Size 4 1/2 XH Ft. Run 3451
 Blow Description JFP - WEAK Blow thru-out 1/4" To 2" Blow
FFP - WEAK Blow thru-out 1/4" To 1" Blow
NO Blow on shut-in

Recovery - Total Feet 105 GIP - Ft. in DC - Ft. in DP 105
 Rec. 105 Feet of MW %gas _____ %oil 75 %water 25 %mud _____
 Rec. _____ Feet of w/show of oil on %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of Top of fluid %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 108 °F Gravity - °API D @ - °F Corrected Gravity - °API _____
 RW .15 @ 70 °F Chlorides 5200 ppm Recovery _____ Chlorides 3000 ppm System _____

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1611</u> PSI	<u>6668</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure		<u>15</u> PSI	(depth) <u>3443</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>45</u> PSI	Recorder No. <u>13534</u>	Jars _____
(D) Initial Shut-In Pressure		<u>695</u> PSI	(depth) <u>3467</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>45</u> PSI	Recorder No. <u>-</u>	Circ Sub _____
(F) Second Final Flow Pressure		<u>75</u> PSI	(depth) <u>-</u>	Sampler _____
(G) Final Shut-In Pressure		<u>700</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1594</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>45</u>	Shale Packer _____
			Final Shut-In <u>45</u>	Mileage <u>✓ 100 Rt</u>
			T-On Location <u>1230</u>	Sub Total: <u>985.00</u>
			T-Started <u>1307</u>	Std. By _____
			T-Open <u>1435</u>	Other _____
			T-Pulled <u>1705</u>	Total: _____
			T-Out <u>1836</u>	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Matt
 Our Representative RAY SCHWAGER THANK
404

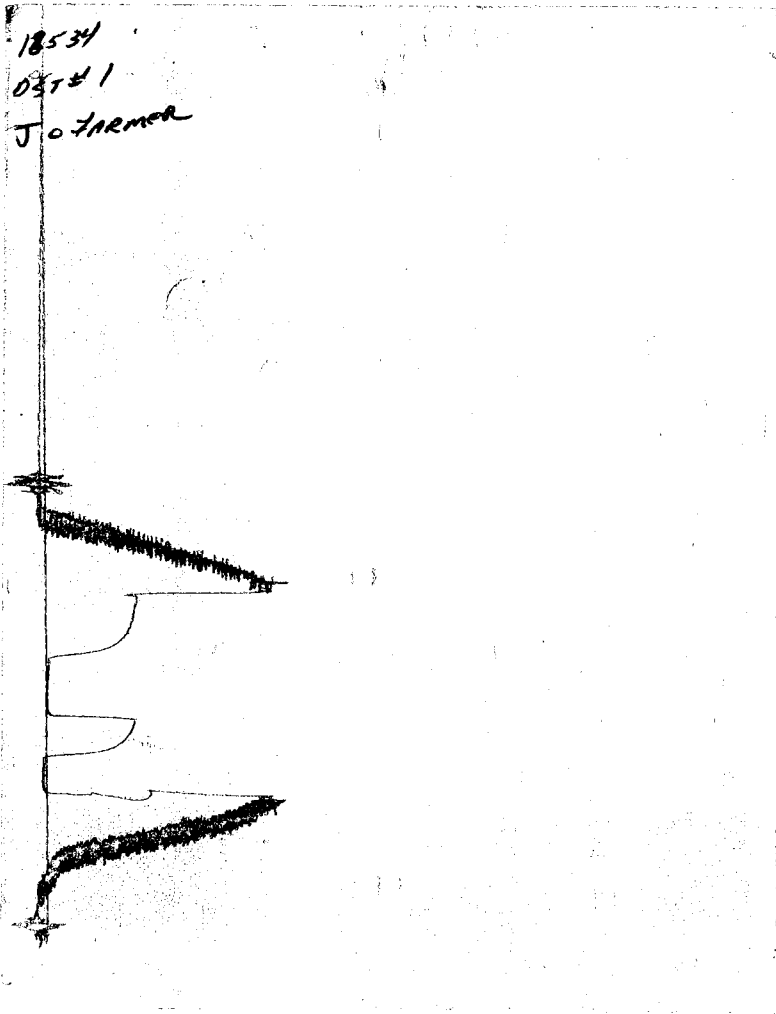
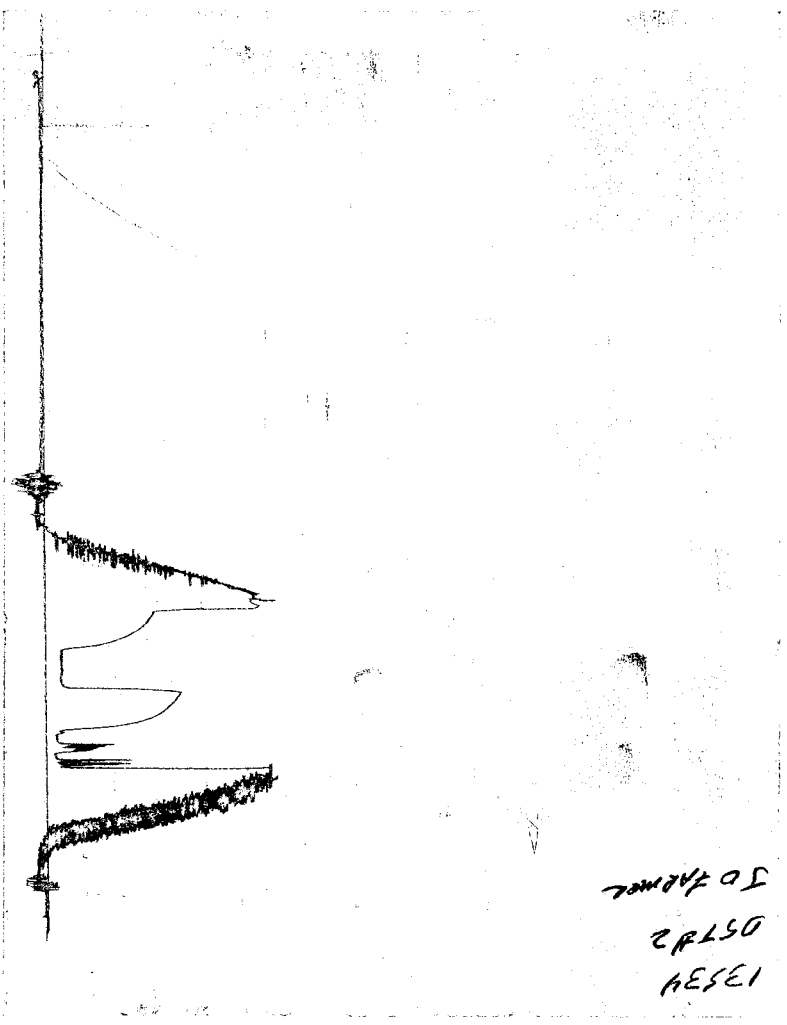
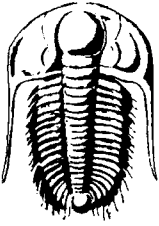


CHART PAGE
This is a photocopy of the actual AK-1 recorder chart

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18505

05/03

Test Ticket

Well Name & No. Swenson A#3 Test No. 3 Date 9-11-04
 Company John O. Farmer Inc Zone Tested LKC D-F
 Address P.O. Box 352 Russell, Ko 67665 Elevation 2258 KB 2250 GL
 Co. Rep / Geo. MATT Dreiling Cont. Discovery rig Est. Ft. of Pay - Por. - %
 Location: Sec. 8 Twp. 9^s Rge. 21^w Co. GRAHAM State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3499-3545 Initial Str Wt./Lbs. 48000 Unseated Str Wt./Lbs. 48000
 Anchor Length 46 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 55000
 Top Packer Depth 3494 Tool Weight 2200
 Bottom Packer Depth 3499 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3545 Wt. Pipe Run - Drill Collar Run -
 Mud Wt. 9 LCM 2# Vis. 55 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3484
 Blow Description IFP - WEAK TO STRONG IN 6 MIN
FFP - WEAK TO A FAIR BLOW SURFACE BLOW TO 4" BLOW
NO BLOW ON SHUT-IN

Recovery - Total Feet 340 GIP - Ft. in DC - Ft. in DP 340
 Rec. 340 Feet of 6CM 15 %gas %oil %water 85 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 100 °F Gravity - °API D @ - °F Corrected Gravity - °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1632</u> PSI	<u>6668</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure		<u>18</u> PSI	(depth) <u>3510</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>128</u> PSI	Recorder No. <u>13534</u>	Jars _____
(D) Initial Shut-In Pressure		<u>977</u> PSI	(depth) <u>3542</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>137</u> PSI	Recorder No. <u>-</u>	Circ Sub _____
(F) Second Final Flow Pressure		<u>195</u> PSI	(depth) <u>-</u>	Sampler _____
(G) Final Shut-In Pressure		PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1619</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>30</u>	Mileage <input checked="" type="checkbox"/> <u>34 RT</u>
			T-On Location <u>1100</u>	Sub Total: <u>928.90</u>
			T-Started <u>1125</u>	Std. By <u>928.90</u>
			T-Open <u>1245</u>	Other _____
			T-Pulled <u>1445</u>	Total: _____
			T-Out <u>1624</u>	

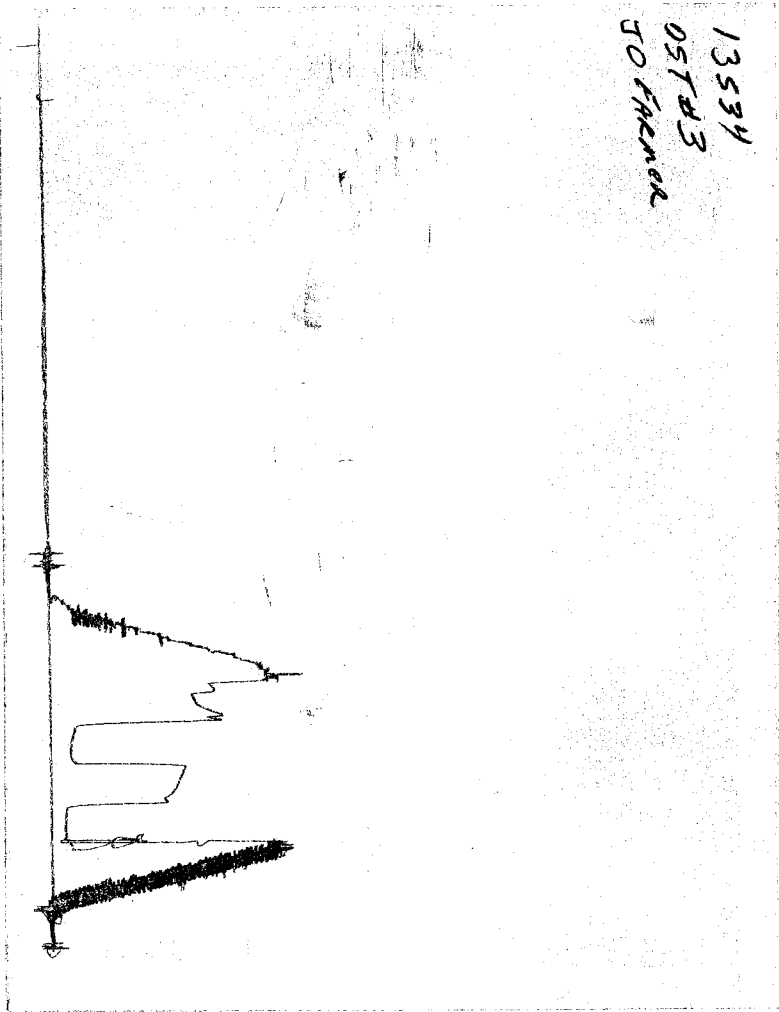
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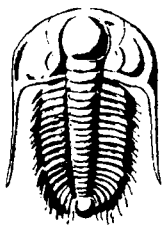
Approved By _____
 Our Representative Ray Schwager Thank
404

CHART PAGE

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13534
OSTD3
JO FRANK





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18506

05/03

Test Ticket

Well Name & No. SWANSON A#3 Test No. 4 Date 9-12-04
 Company John O. Farmer Inc Zone Tested Arbuckle
 Address P.O. Box 352 Russell, Mo 67665 Elevation 2258 KB 2250 GL
 Co. Rep / Geo. MATT Oreiling Cont. Discovery rig 1 Est. Ft. of Pay - Por. - %
 Location: Sec. 8 Twp. 9^s Rge. 21^w Co. GRAHAM State Ko
 No. of Copies Reg Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3744-3774 Initial Str Wt./Lbs. 51000 Unseated Str Wt/Lbs. 53000
 Anchor Length 30 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 90000
 Top Packer Depth 3739 Tool Weight 2200
 Bottom Packer Depth 3744 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3774 Wt. Pipe Run - Drill Collar Run -
 Mud Wt. 9.1 LCM 5.6 Vis. 3.6 WL 7.2 Drill Pipe Size 4 1/2 x 11 Ft. Run 3754
 Blow Description IFF - WEAK TO STRONG IN 4 min
FFP - WEAK TO STRONG IN 6 min
ISTIP - WEAK Blow Back 1/8" Blow
FSIP - WEAK Blow Back

Recovery - Total Feet 774 GIP 340 Ft. in DC - Ft. in DP 774
 Rec. 650 Feet of CO %gas _____ %oil _____ %water _____ %mud _____
 Rec. 124 Feet of HO*6CWM 25 %gas 20 %oil 25 %water 30 %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 115 °F Gravity 30 °API D @ 60 °F Corrected Gravity 30 °API
 RW .20 @ 75 °F Chlorides 32000 ppm Recovery _____ Chlorides 5000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1800</u> PSI	<u>6668</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure		<u>37</u> PSI	(depth) <u>3745</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>189</u> PSI	Recorder No. <u>13534</u>	Jars _____
(D) Initial Shut-In Pressure		<u>1117</u> PSI	(depth) <u>3771</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>222</u> PSI	Recorder No. <u>-</u>	Circ Sub _____
(F) Second Final Flow Pressure		<u>322</u> PSI	(depth) <u>-</u>	Sampler _____
(G) Final Shut-In Pressure		<u>1120</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1773</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>45</u>	Mileage <u>✓ 34 RT</u>
			T-On Location <u>0900</u>	Sub Total: <u>928.90</u>
			T-Started <u>0921</u>	Std. By _____
			T-Open <u>1050</u>	Other _____
			T-Pulled <u>1320</u>	Total: _____
			T-Out <u>1524</u>	

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Approved By Matt Oreiling
 Our Representative Ray Schwager Thak 404

CHART PAGE

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