

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

32-7S-20w Rooks

Benoit A#1

Start Date: 2004.09.02 @ 17:31:50

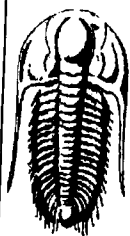
End Date: 2004.09.02 @ 23:24:19

Job Ticket #: 20173 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 Inc

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

Benoit A#1

32-7S-20w Rooks

Job Ticket: 20173

DST#: 1

Test Start: 2004.09.02 @ 17:31:50

GENERAL INFORMATION:

Formation: LKC "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:19

Time Test Ended: 23:24:19

Interval: 3212.00 ft (KB) To 3250.00 ft (KB) (TVD)

Total Depth: 3250.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Reference Elevations: 1970.00 ft (KB)

1962.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668

Inside

Press@RunDepth: 139.66 psig @ 3213.01 ft (KB)

Start Date: 2004.09.02

End Date:

2004.09.02

Capacity: 7000.00 psig

Last Calib.: 2004.09.02

Start Time: 17:31:50

End Time:

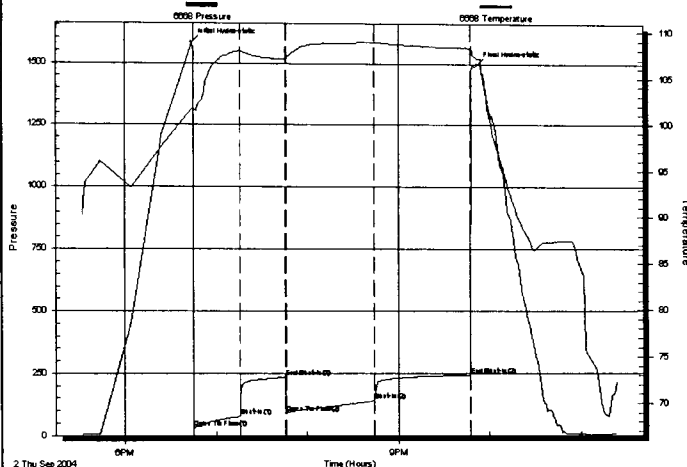
23:24:19

Time On Btm: 2004.09.02 @ 18:43:49

Time Off Btm: 2004.09.02 @ 21:51:49

TEST COMMENT: FFP-w k to strg in 20 min
FFP-w k to a strg bl in 45 min
Times 30-30-60-60
w k surface bl bk on shut-in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1581.72	101.69	Initial Hydro-static
2	29.75	101.62	Open To Flow (1)
32	76.21	107.91	Shut-In(1)
62	235.23	107.02	End Shut-In(1)
62	87.55	106.98	Open To Flow (2)
120	139.66	108.85	Shut-In(2)
184	242.64	108.25	End Shut-In(2)
188	1494.62	107.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.07
25.00	MW 25% mud 75% water w / show of oil	0.35
250.00	Water RW.14@74F	3.51

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

Benoit A#1

32-7S-20w Rooks

Job Ticket: 20173

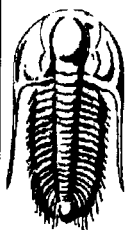
DST#: 1

Test Start: 2004.09.02 @ 17:31:50

Tool Information

Drill Pipe:	Length: 3201.00 ft	Diameter: 3.80 inches	Volume: 44.90 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:	50000.00 lb
			<u>Total Volume: 44.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3212.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.02 ft				
Tool Length:	59.02 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			3192.00	
Shut In Tool	5.00			3197.00	
Hydraulic tool	5.00			3202.00	
Packer	5.00			3207.00	21.00 Bottom Of Top Packer
Packer	5.00			3212.00	
Stubb	1.00			3213.00	
Recorder	0.01	6668	Inside	3213.01	
Perforations	34.00			3247.01	
Recorder	0.01	13534	Outside	3247.02	
Bullnose	3.00			3250.02	38.02 Bottom Packers & Anchor
Total Tool Length:	59.02				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Benoit A#1

P O Box 352
Russell Ks 67665

32-7S-20w Rooks

Job Ticket: 20173

DST#: 1

ATTN: John O Farmer IV

Test Start: 2004.09.02 @ 17:31:50

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:

53000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	CO	0.070
25.00	M/V 25% mud 75% water w / show of oil	0.351
250.00	Water RW.14@74F	3.507

Total Length: 280.00 ft

Total Volume: 3.928 bbl

Num Fluid Samples: 0

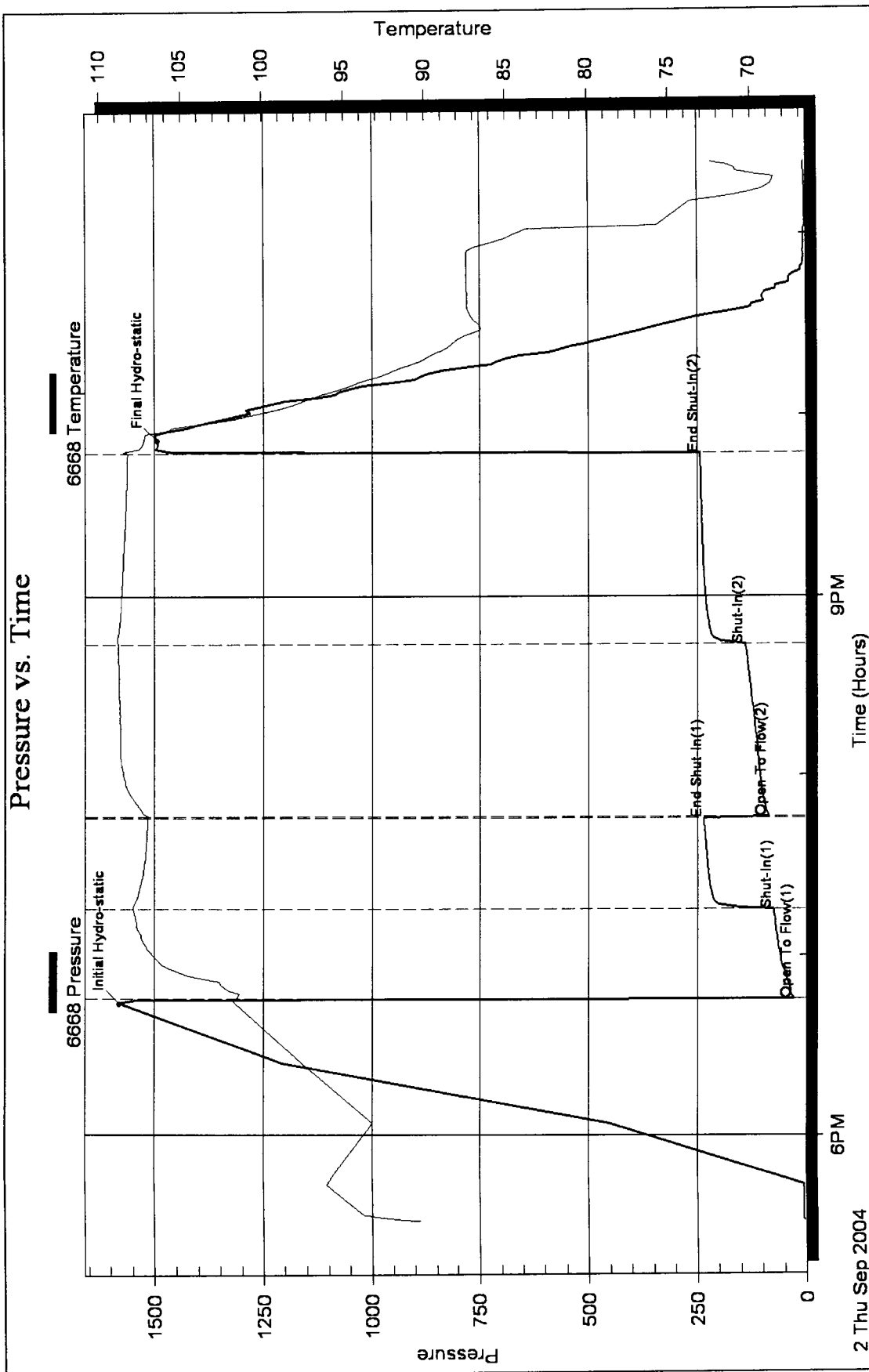
Num Gas Bombs: 0

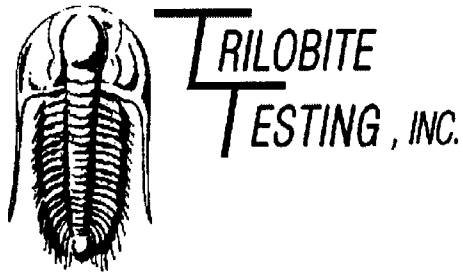
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

32-7S-20w Rooks

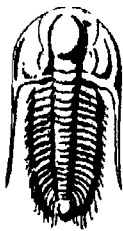
Benoit A#1

Start Date: 2004.09.03 @ 05:03:28

End Date: 2004.09.03 @ 10:20:27

Job Ticket #: 20174 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

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

Benoit A#1

32-7S-20w Rooks

Job Ticket: 20174

DST#: 2

Test Start: 2004.09.03 @ 05:03:28

GENERAL INFORMATION:

Formation: **LKC D-F**

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

Time Tool Opened: 06:34:27

Time Test Ended: 10:20:27

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3239.00 ft (KB) To 3278.00 ft (KB) (TVD)**

Total Depth: **3278.00 ft (KB) (TVD)**

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

Reference Elevations: **1970.00 ft (KB)**

1962.00 ft (CF)

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

Serial #: 6668

Inside

Press@RunDepth: **150.69 psig @ 3240.01 ft (KB)**

Start Date: **2004.09.03**

End Date: **2004.09.03**

Start Time: **05:03:28**

End Time: **10:20:27**

Capacity: **7000.00 psig**

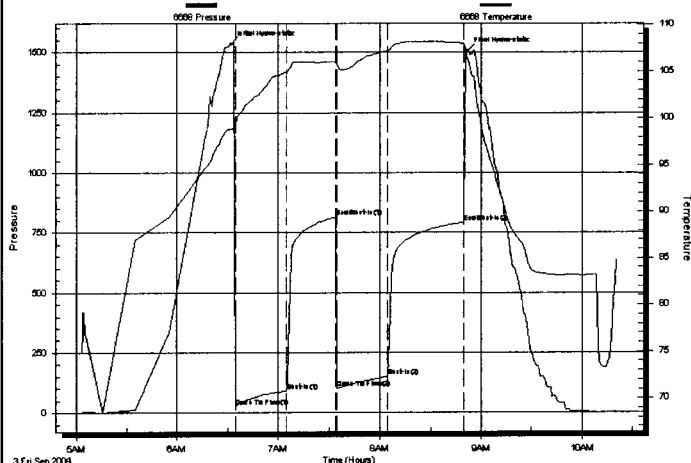
Last Calib.: **2004.09.03**

Time On Btm: **2004.09.03 @ 06:31:57**

Time Off Btm: **2004.09.03 @ 08:51:57**

TEST COMMENT: FFP-w k to strg in 8 min
FFP-w k to strg in 5 min
ISIP-w k bl bk - FSP-w k bl bk
Times 30-30-30-45

Pressure vs. Time



PRESSURE SUMMARY

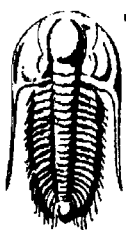
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1535.36	98.77	Initial Hydro-static
3	26.62	99.15	Open To Flow (1)
33	91.64	104.88	Shut-In(1)
62	813.97	106.02	End Shut-In(1)
63	103.44	105.79	Open To Flow (2)
93	150.69	107.16	Shut-In(2)
138	792.68	107.95	End Shut-In(2)
140	1506.28	106.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MGO 10%gas 70%oil 20%mud	1.74
248.00	MGO 15%gas 78%oil 7%mud	3.48
0.00	680' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

Benoit A#1

32-7S-20w Rooks

Job Ticket: 20174

DST#: 2

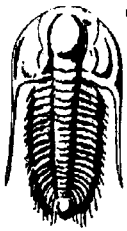
Test Start: 2004.09.03 @ 05:03:28

Tool Information

Drill Pipe:	Length: 3233.00 ft	Diameter: 3.80 inches	Volume: 45.35 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: 50000.00 lb
			Total Volume: 45.35 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3239.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.02 ft			
Tool Length:	60.02 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			3219.00	
Shut In Tool	5.00			3224.00	
Hydraulic tool	5.00			3229.00	
Packer	5.00			3234.00	21.00 Bottom Of Top Packer
Packer	5.00			3239.00	
Stubb	1.00			3240.00	
Recorder	0.01	6668	Inside	3240.01	
Perforations	35.00			3275.01	
Recorder	0.01	13534	Outside	3275.02	
Bullnose	3.00			3278.02	39.02 Bottom Packers & Anchor
Total Tool Length:	60.02				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Benoit A#1

P O Box 352
Russell Ks 67665

32-7S-20w Rooks

Job Ticket: 20174

DST#: 2

ATTN: John O Farmer IV

Test Start: 2004.09.03 @ 05:03:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.93 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MGO 10%gas 70%oil 20%mud	1.739
248.00	MGO 15%gas 78%oil 7%mud	3.479
0.00	680' GIP	0.000

Total Length: 372.00 ft

Total Volume: 5.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

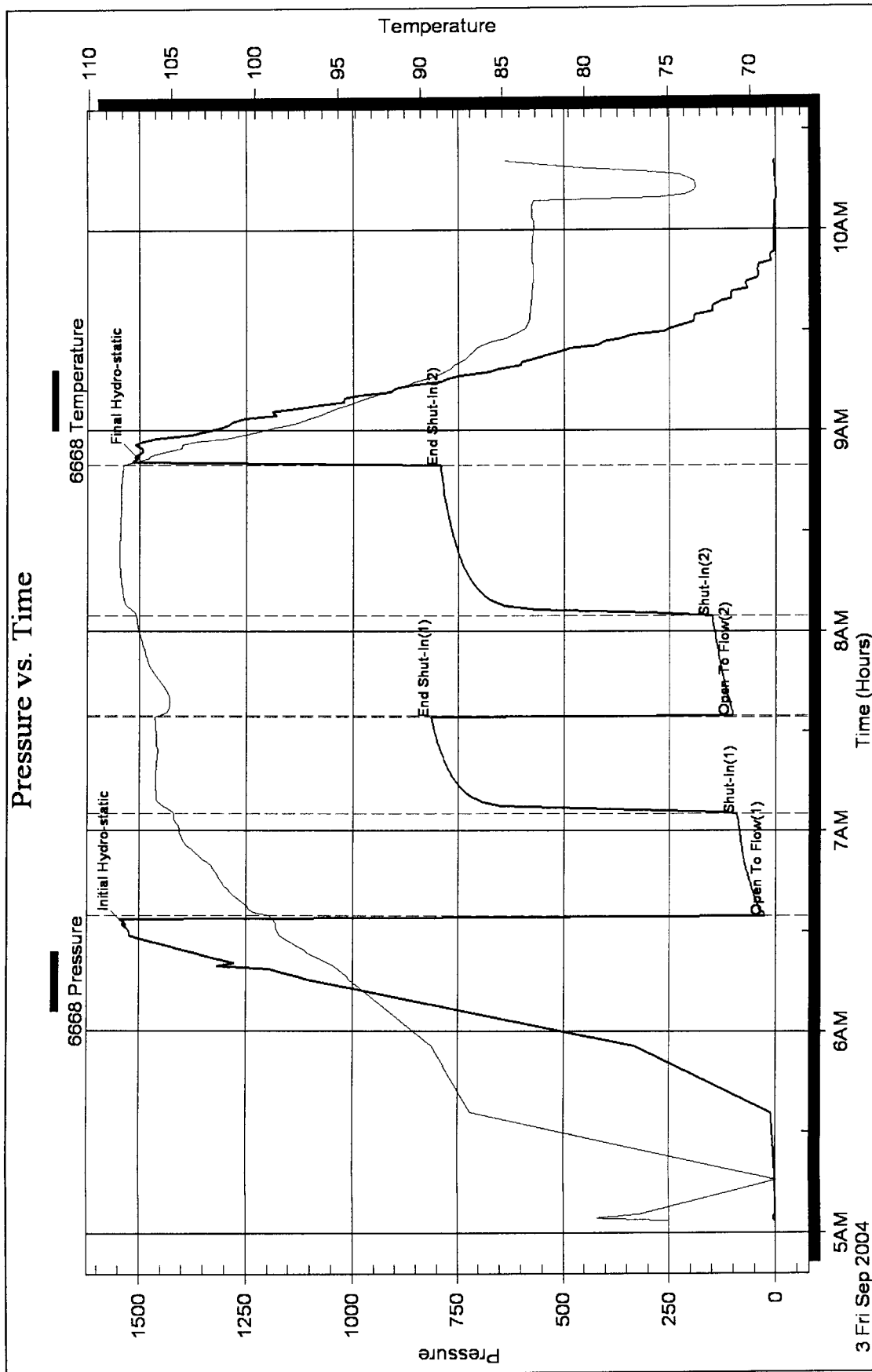
Serial #:

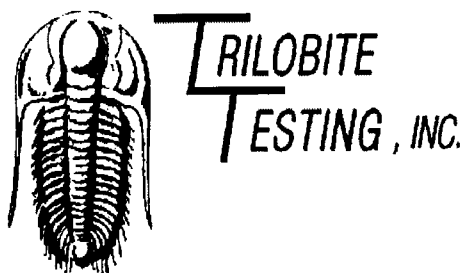
Laboratory Name:

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

32-7S-20w Rooks

Benoit A#1

Start Date: 2004.09.03 @ 20:34:07

End Date: 2004.09.04 @ 01:28:06

Job Ticket #: 20175 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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TRILOBITE
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DRILL STEM TEST REPORT

John O Farmer Inc

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

Benoit A#1

32-7S-20w Rooks

Job Ticket: 20175

DST#: 3

Test Start: 2004.09.03 @ 20:34:07

GENERAL INFORMATION:

Formation: **LKC H-K**

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

Time Tool Opened: 21:55:06

Time Test Ended: 01:28:06

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3302.00 ft (KB) To 3390.00 ft (KB) (TVD)**

Total Depth: **3390.00 ft (KB) (TVD)**

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

Reference Elevations: **1970.00 ft (KB)**

1962.00 ft (CF)

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

Serial #: 6668 **Inside**

Press@RunDepth: **51.75 psig @ 3305.01 ft (KB)**

Start Date: **2004.09.03**

End Date:

2004.09.04

Start Time: **20:34:07**

End Time:

01:28:06

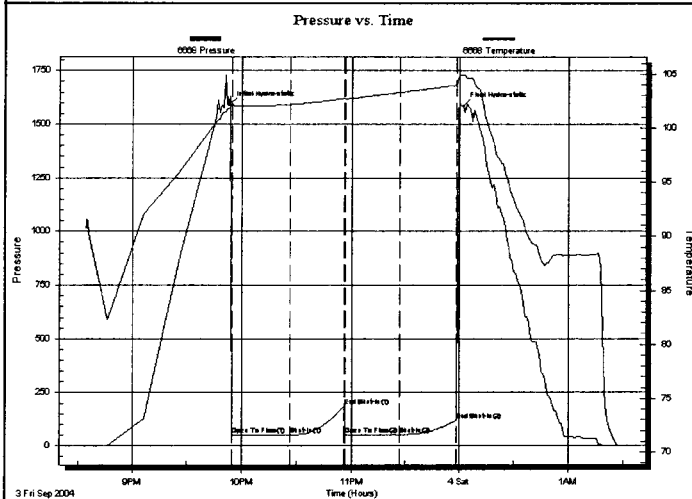
Capacity: **7000.00 psig**

Last Calib.: **2004.09.04**

Time On Btm: **2004.09.03 @ 21:53:06**

Time Off Btm: **2004.09.04 @ 00:02:06**

TEST COMMENT: IFF-w k bl thru-out 1/4" to surface bl
FFP-no bl
Times 30-30-30-30



PRESSURE SUMMARY

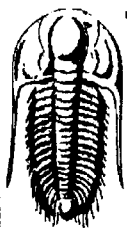
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.35	101.77	Initial Hydro-static
2	48.94	102.10	Open To Flow (1)
34	51.23	102.19	Shut-In(1)
63	182.70	102.75	End Shut-In(1)
64	48.89	102.69	Open To Flow (2)
94	51.75	103.30	Shut-In(2)
125	116.33	103.98	End Shut-In(2)
129	1585.12	104.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.03

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Benoit A#1

P O Box 352
Russell Ks 67665

32-7S-20w Rooks

Job Ticket: 20175

DST#: 3

ATTN: John O Farmer IV

Test Start: 2004.09.03 @ 20:34:07

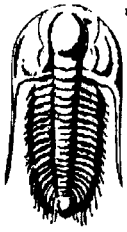
Tool Information

Drill Pipe:	Length: 3296.00 ft	Diameter: 3.80 inches	Volume: 46.23 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: 46.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3302.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.02 ft			
Tool Length:	109.02 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			3282.00	
Shut In Tool	5.00			3287.00	
Hydraulic tool	5.00			3292.00	
Packer	5.00			3297.00	21.00 Bottom Of Top Packer
Packer	5.00			3302.00	
Stubb	1.00			3303.00	
Perforations	1.00			3304.00	
Change Over Sub	1.00			3305.00	
Recorder	0.01	6668	Inside	3305.01	
Blank Spacing	61.00			3366.01	
Change Over Sub	1.00			3367.01	
Perforations	20.00			3387.01	
Recorder	0.01	13534	Outside	3387.02	
Bullnose	3.00			3390.02	88.02 Bottom Packers & Anchor

Total Tool Length: 109.02



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Benoit A#1

P O Box 352
Russell Ks 67665

32-7S-20w Rooks

Job Ticket: 20175

DST#: 3

ATTN: John O Farmer IV

Test Start: 2004.09.03 @ 20:34:07

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.92 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud	0.028

Total Length: 2.00 ft

Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

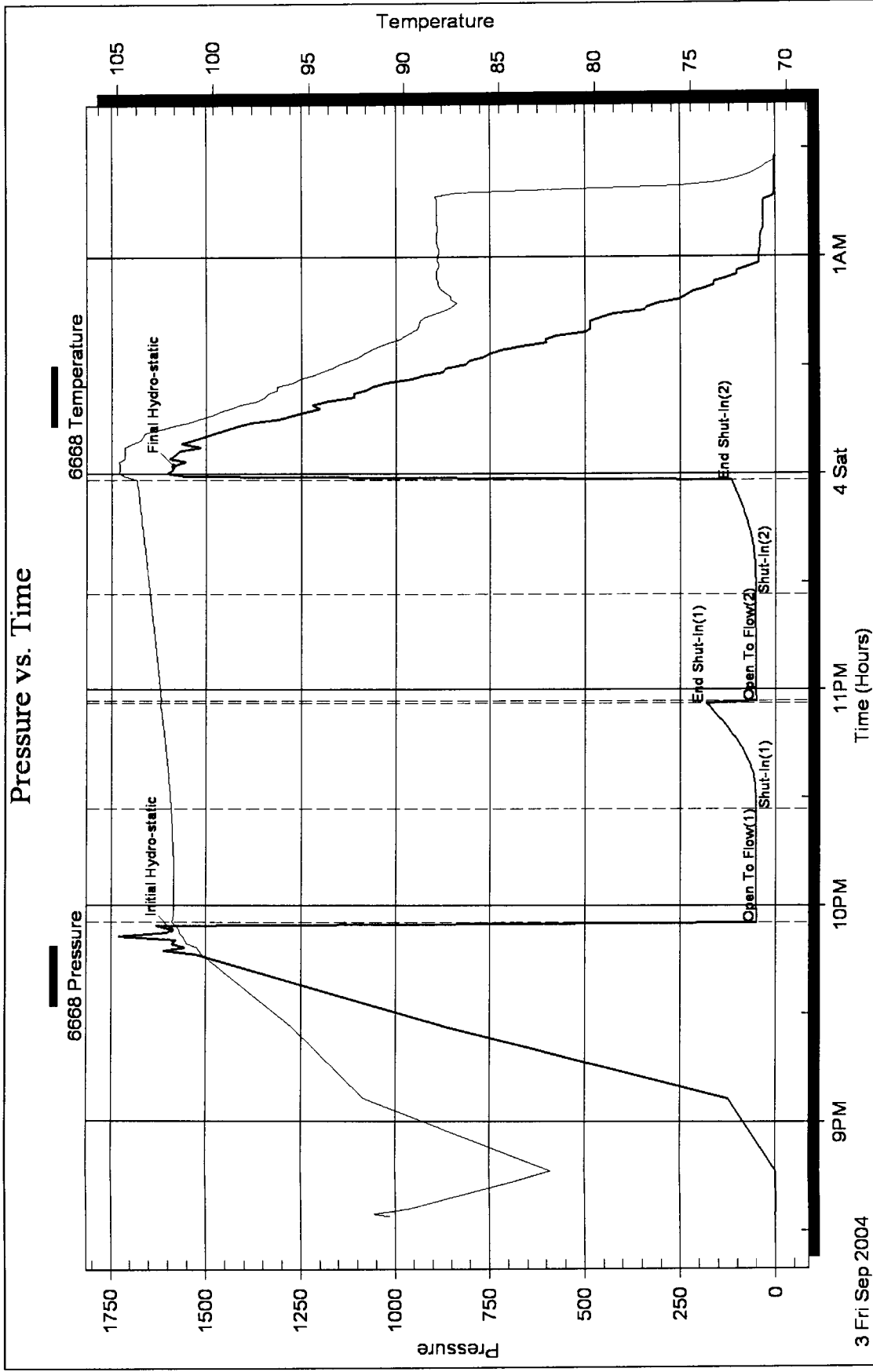
Serial #: 6668

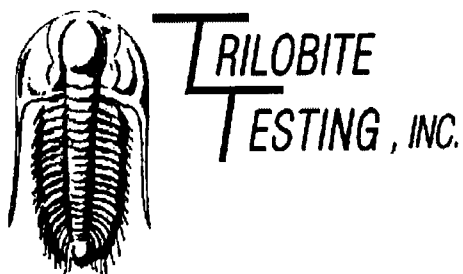
Inside

John O Farmer Inc

32-7S-20w Rooks

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

32-7S-20w Rooks

Benoit A#1

Start Date: 2004.09.04 @ 16:36:30

End Date: 2004.09.04 @ 21:30:29

Job Ticket #: 18501 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

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

Benoit A#1

32-7S-20w Rooks

Job Ticket: 18501

DST#: 4

Test Start: 2004.09.04 @ 16:36:30

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 17:48:29

Time Test Ended: 21:30:29

Interval: **3379.00 ft (KB) To 3452.00 ft (KB) (TVD)**

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

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

Test Type: **Conventional Straddle**

Tester: **Ray Schwager**

Unit No: **28**

Reference Elevations: **1970.00 ft (KB)**

1962.00 ft (CF)

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

Serial #: 6668

Inside

Press@RunDepth: **59.27 psig @ 3382.01 ft (KB)**

Start Date: **2004.09.04**

End Date: **2004.09.04**

Start Time: **16:36:30**

End Time: **21:30:29**

Capacity: **7000.00 psig**

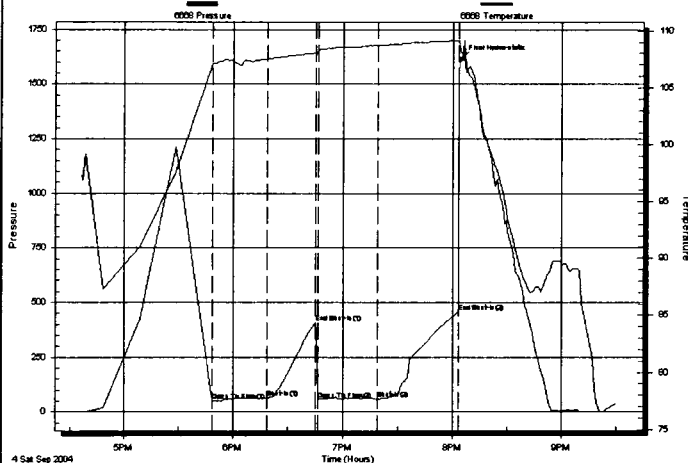
Last Calib.: **2004.09.04**

Time On Btm:

Time Off Btm: **2004.09.04 @ 20:04:59**

TEST COMMENT: FFP-wk bl thru-out 1/2" to 1" bl
FFP-no bl
Times 30-30-30-45

Pressure vs. Time



PRESSURE SUMMARY

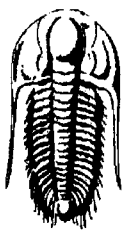
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	49.38	107.06	Open To Flow (1)
30	61.81	107.48	Shut-In(1)
57	408.51	108.01	End Shut-In(1)
58	55.34	108.24	Open To Flow (2)
90	59.27	108.70	Shut-In(2)
135	457.24	109.12	End Shut-In(2)
137	1617.81	108.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

Benoit A#1

32-7S-20w Rooks

Job Ticket: 18501

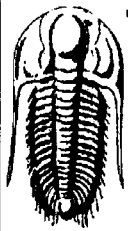
DST#: 4

Test Start: 2004.09.04 @ 16:36:30

Tool Information

Drill Pipe:	Length: 3388.00 ft	Diameter: 3.80 inches	Volume: 47.52 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
			Total Volume: 47.52 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3379.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	3452.02 ft			
Interval between Packers:	73.02 ft			
Tool Length:	145.03 ft			
Number of Packers:	3	Diameter:	6.75 inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3359.00	
Shut In Tool	5.00			3364.00	
Hydraulic tool	5.00			3369.00	
Packer	5.00			3374.00	21.00 Bottom Of Top Packer
Packer	5.00			3379.00	
Stubb	1.00			3380.00	
Perforations	1.00			3381.00	
Change Over Sub	1.00			3382.00	
Recorder	0.01	6668	Inside	3382.01	
Blank Spacing	60.00			3442.01	
Change Over Sub	1.00			3443.01	
Recorder	0.01	13534	Outside	3443.02	
Perforations	5.00			3448.02	
Blank Off Sub	1.00			3449.02	
Blank Spacing	3.00			3452.02	73.02 Tool Interval
Packer	5.00			3457.02	
Stubb	1.00			3458.02	
Recorder	0.01	13401	Below	3458.03	
Perforations	11.00			3469.03	
Change Over Sub	1.00			3470.03	
Blank Spacing	30.00			3500.03	
Bullnose	3.00			3503.03	51.01 Bottom Packers & Anchor
Total Tool Length:		145.03			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Benoit A#1

P O Box 352
Russell Ks 67665

32-7S-20w Rooks

Job Ticket: 18501

DST#: 4

ATTN: John O Farmer IV

Test Start: 2004.09.04 @ 16:36:30

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

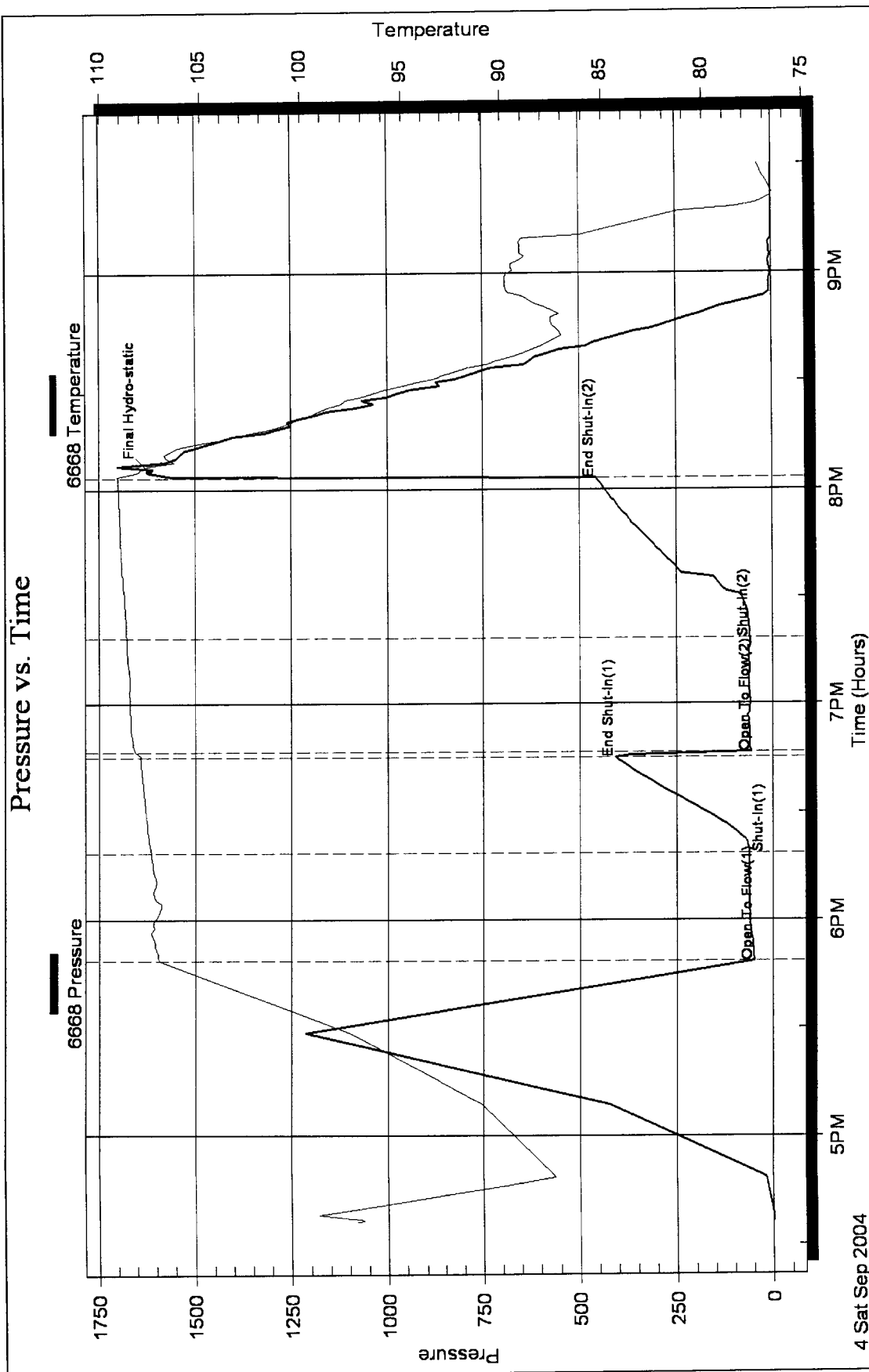
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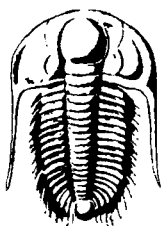
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20173

05/03

Test Ticket

Well Name & No. Benoit A#1 Test No. 1 Date 9-2-04
Company John O. Farmer, Inc Zone Tested LKC 'C'
Address P.O. Box 352 Russell, Ks 67665 Elevation 1970 KB 1962 GL
Co. Rep / Geo. MATT Oreiling Cont. Discovery rig Est. Ft. of Pay - Por. - %
Location: Sec. 32 Twp. 75 Rge. 20 Co. Rooks State Ks
No. of Copies Reg Distribution Sheet (Y, N) - Turnkey (Y, N) - Evaluation (Y, N) -

Interval Tested 3212 - 3250 Initial Str Wt./Lbs. 42000 Unseated Str Wt./Lbs. 45000
Anchor Length 38 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000
Top Packer Depth 3207 Tool Weight 2200
Bottom Packer Depth 3212 Hole Size 7 7/8" Rubber Size 6 3/4"
Total Depth 3250 Wt. Pipe Run - Drill Collar Run -
Mud Wt. 8.8 LCM - Vis. 54 WL 8 Drill Pipe Size 4 1/2 XH Ft. Run 3201
Blow Description IFP - WEAK TO A STRONG BLOW IN 20 MIN
FFP - WEAK TO A STRONG BLOW IN 45 MIN
ISIP - WEAK SURFACE BLOW BACK ON SHUT-IN
FSIP - NO BLOW

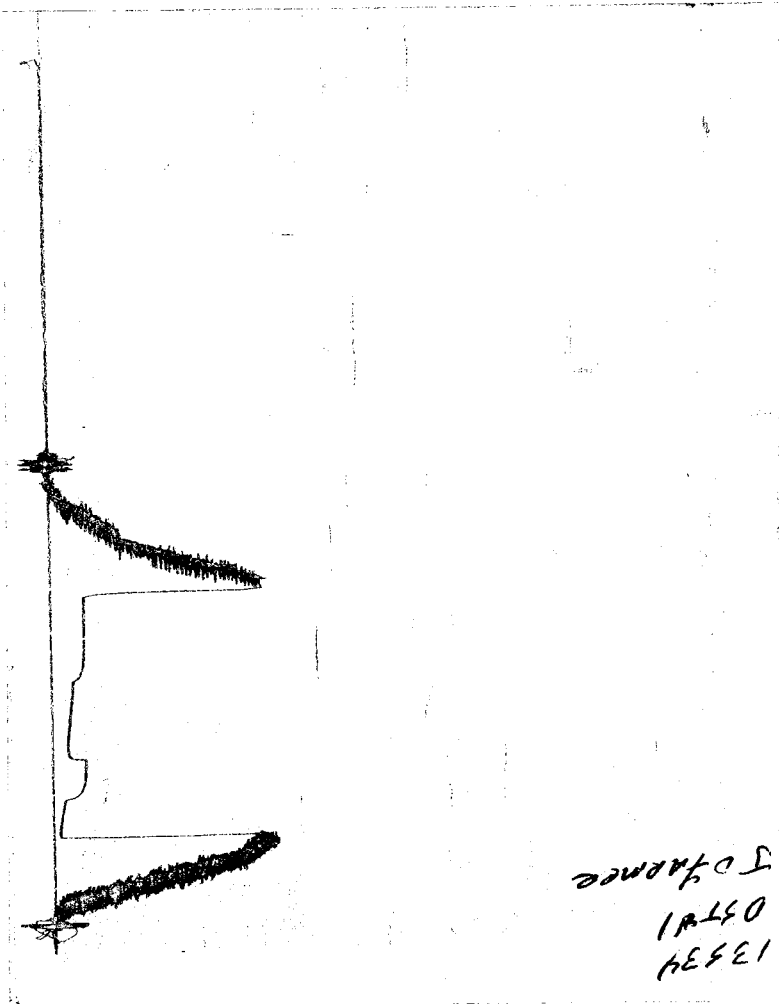
Recovery - Total Feet 280 GIP - Ft. in DC - Ft. in DP 280
Rec. 5 Feet of CO %gas - %oil - %water - %mud -
Rec. 25 Feet of MU w/show of oil %gas - %oil - %water 25 %mud 25
Rec. 250 Feet of WATER %gas - %oil - %water - %mud -
Rec. - Feet of - %gas - %oil - %water - %mud -
Rec. - Feet of - %gas - %oil - %water - %mud -
BHT - °F Gravity - °API D @ - °F Corrected Gravity - °API
RW .14 @ 74 °F Chlorides 53000 ppm Recovery - Chlorides 1000 ppm System

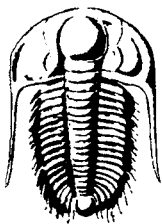
	AK-1	Alpine			
(A) Initial Hydrostatic Mud		1581 PSI	Recorder No.	6668	Test ☒ 900
(B) First Initial Flow Pressure		29 PSI	(depth)	3213	Elec. Rec. ☒
(C) First Final Flow Pressure		76 PSI	Recorder No.	13534	Jars <u>-</u>
(D) Initial Shut-In Pressure		235 PSI	(depth)	3247	Safety Jt. <u>-</u>
(E) Second Initial Flow Pressure		87 PSI	Recorder No.	-	Circ Sub <u>-</u>
(F) Second Final Flow Pressure		139 PSI	(depth)	-	Sampler <u>-</u>
(G) Final Shut-In Pressure		242 PSI	Initial Opening	30	Straddle <u>-</u>
(Q) Final Hydrostatic Mud		1494 PSI	Initial Shut-In	30 30	Ext. Packer <u>-</u>
			Final Flow	60	Shale Packer <u>-</u>
			Final Shut-In	60	Mileage ☒ 104 RT 88.40
			T-On Location	1645	Sub Total: <u>988.40</u>
			T-Started	1731	Std. By <u>-</u>
			T-Open	1845	Other <u>-</u>
			T-Pulled	2145	Total: <u>-</u>
			T-Out	2324	

Approved By -
Our Representative Ray Schwager THANK YOU

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20174

05/03

Test Ticket

Well Name & No.	Benoit A#1	Test No.	2	Date	9-3-04
Company	John O Farmer Inc	Zone Tested	LKC 0-F		
Address	P.O. Box 352 Russell, Ks 67665	Elevation	1970 KB 1962 GL		
Co. Rep / Geo.	MATT Oreiling	Cont.	DISCOVERY rig	Est. Ft. of Pay	- Por. - %
Location: Sec.	32	Twp.	7 ^s	Rge.	20 ^w Co. Rocks State Ks
No. of Copies	Reg	Disbtribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	3239 - 3278	Initial Str Wt./Lbs.	44000	Unseated Str Wt./Lbs.	46000
Anchor Length	39	Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	50000
Top Packer Depth	3234	Tool Weight	2200		
Bottom Packer Depth	3239	Hole Size 7 7/8"	-	Rubber Size 6 3/4"	-
Total Depth	3278	Wt. Pipe Run	-	Drill Collar Run	-
Mud Wt. 8.8 LCM - Vis. 48 WL 8		Drill Pipe Size 4 1/2 XH		Ft. Run	3233
Blow Description	IFP - WEAK TO STRONG IN 8 MIN FFP - WEAK TO STRONG IN 5 MIN ISIP - WEAK BLOW BACK 1/4" FSIP - WEAK BLOW BACK 1/4"				

Recovery - Total Feet	372	GIP	680	Ft. in DC	-	Ft. in DP	372
Rec. 124	Feet of M60	10 %gas	70 %oil	%water	20	%mud	
Rec. 248	Feet of M60	15 %gas	78 %oil	%water	7	%mud	
Rec.	Feet of	%gas	%oil	%water		%mud	
Rec.	Feet of	%gas	%oil	%water		%mud	
Rec.	Feet of	%gas	%oil	%water		%mud	
BHT 107	°F Gravity 35	°API D @ 60	°F Corrected Gravity 35	°API			
RW -	@ -	°F Chlorides -	ppm Recovery -	Chlorides 1000	ppm System		

(A) Initial Hydrostatic Mud	AK-1	Alpine	1535 PSI	Recorder No.	6668	Test	✓	900
(B) First Initial Flow Pressure			26 PSI	(depth)	3240	Elec. Rec.	✓	
(C) First Final Flow Pressure			91 PSI	Recorder No.	13534	Jars		
(D) Initial Shut-In Pressure			813 PSI	(depth)	3275	Safety Jt.		
(E) Second Initial Flow Pressure			103 PSI	Recorder No.	-	Circ Sub		
(F) Second Final Flow Pressure			150 PSI	(depth)	-	Sampler		
(G) Final Shut-In Pressure			792 PSI	Initial Opening	30	Straddle		
(Q) Final Hydrostatic Mud			1506 PSI	Initial Shut-In	30	Ext. Packer		

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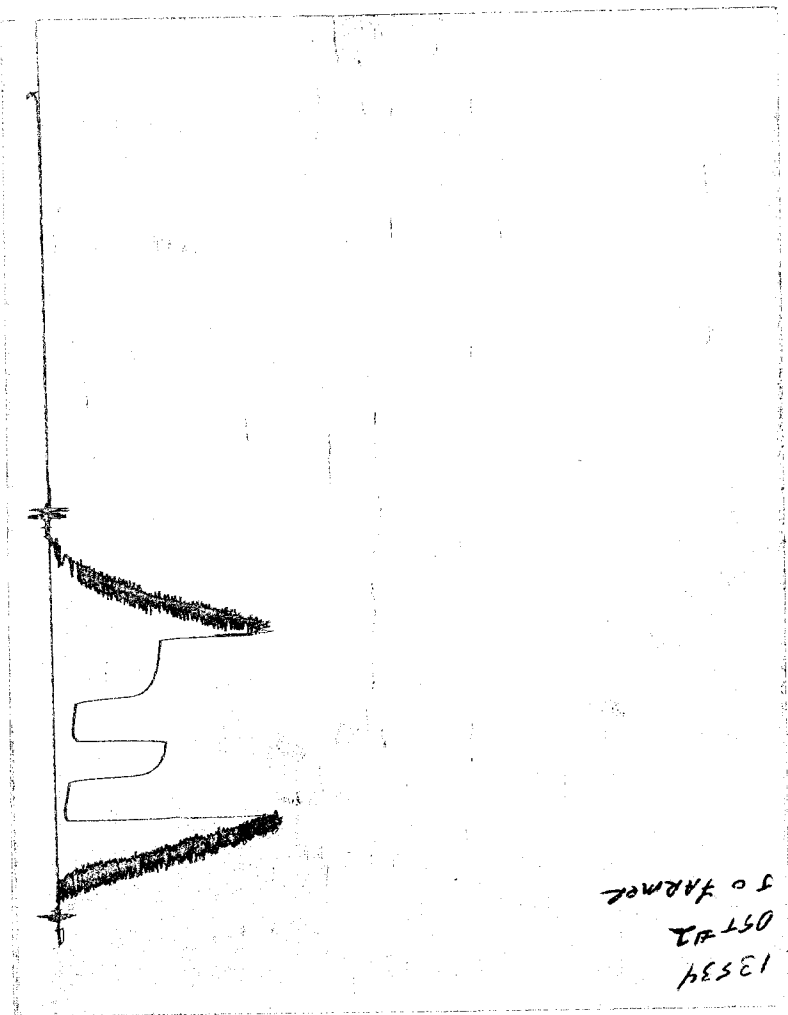
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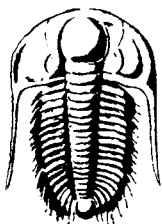
Our Representative Ray Schwager THANK YOU

Final Flow	30	Shale Packer	
Final Shut-In	45	Mileage	✓ 30 RT 25.50
T-On Location	0445	Sub Total:	925.50
T-Started	0503	Std. By	
T-Open	0635	Other	
T-Pulled	0850	Total:	
T-Out	1020		

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20175

05/03

Test Ticket

Well Name & No.	Benoit A#1	Test No.	3	Date	9-3-04
Company	John O. Farmer Inc	Zone Tested	KK H-K		
Address	P.O. Box 352 Russell, Ks 67665	Elevation	1970	KB	1962 GL
Co. Rep / Geo.	MATT Dreiling	Cont.	Discovery rig 1	Est. Ft. of Pay	- Por. - %
Location: Sec.	32	Twp.	7 ^s	Rge.	20 ^w Co. Rooks State Ks
No. of Copies	Req	Disbtribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	3302-3390	Initial Str Wt./Lbs.	44000	Unseated Str Wt./Lbs.	44000
Anchor Length	88	Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	55000
Top Packer Depth	3297	Tool Weight	2200		
Bottom Packer Depth	3302	Hole Size 7 7/8"	-	Rubber Size 6 3/4"	-
Total Depth	3390	Wt. Pipe Run	-	Drill Collar Run	-
Mud Wt.	9 LCM - Vis. 49 WL 8	Drill Pipe Size	4 1/2 XH	Ft. Run	3296
Blow Description	IFP-WEAK Blow thru-out 1/4" To surface Blow FFP- NO Blow NO Blow on shot-in				

Recovery - Total Feet	2	GIP	-	Ft. in DC	-	Ft. in DP	2
Rec.	2	Feet of	Mud	%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
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	103	°F Gravity	-	°API D @	-	°F Corrected Gravity	-
RW	-	@	-	°F Chlorides	ppm Recovery	Chlorides	2000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	1589	PSI	Recorder No.	6668	Test	✓
(B) First Initial Flow Pressure	48	PSI	(depth)	3305	Elec. Rec.	✓
(C) First Final Flow Pressure	51	PSI	Recorder No.	13534	Jars	
(D) Initial Shut-In Pressure	182	PSI	(depth)	3387	Safety Jt.	
(E) Second Initial Flow Pressure	48	PSI	Recorder No.	-	Circ Sub	
(F) Second Final Flow Pressure	51	PSI	(depth)	-	Sampler	
(G) Final Shut-In Pressure	116	PSI	Initial Opening	30	Straddle	
(Q) Final Hydrostatic Mud	1585	PSI	Initial Shut-In	30	Ext. Packer	

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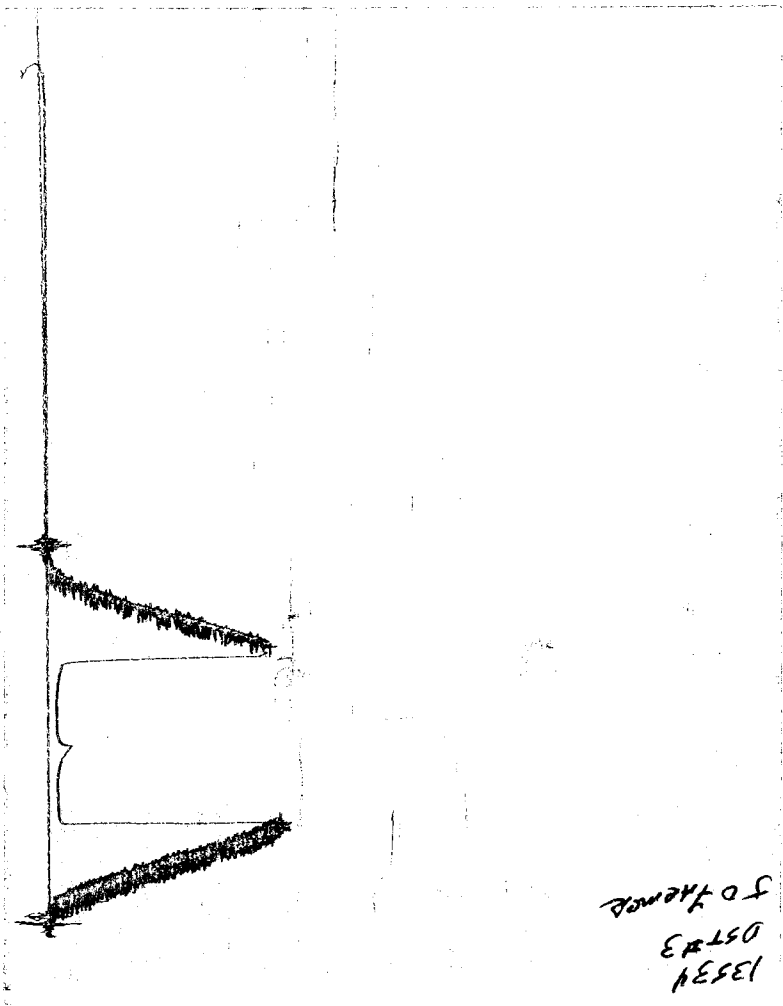
Approved By _____

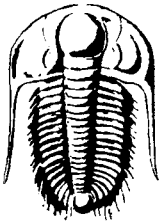
Our Representative Ray Schwager THANK YOU

Final Flow	30	Shale Packer	
Final Shut-In	30	Mileage	✓ 30 RT
T-On Location	2000	Sub Total:	925.50
T-Started	2034	Std. By	
T-Open	2155	Other	
T-Pulled	2355	Total:	
T-Out	0128		

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18501

05/03

Test Ticket

Well Name & No.	Benoit A #1	Test No.	4	Date	9-4-04
Company	John O. Farmer Inc	Zone Tested	ARbuckle		
Address	P.O. Box 352 Russell, Ks 67665	Elevation	1970	KB	1965
Co. Rep / Geo.	MATT DRILLING	Cont.	DISCOVERY rig	Est. Ft. of Pay	— Por. — %
Location: Sec.	32	Twp.	7	Rge.	20 ^W
		Co.	Rooks	State	Ks
No. of Copies	Reg	Disbtribution Sheet (Y, N)	Turnkey (Y, N)	Evaluation (Y, N)	

Interval Tested	3379-3452	Initial Str Wt./Lbs.	44000	Unseated Str Wt./Lbs.	44000
Anchor Length	73	Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	55000
Top Packer Depth	3374-3379	Tool Weight	2200		
Bottom Packer Depth	3452	Hole Size 7 7/8"	—	Rubber Size 6 3/4"	—
Total Depth	3500	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt.	9.1	LCM	3 1/2#	Vis.	54
		WL	7.2	Drill Pipe Size	4 1/2 X H
Blow Description	IFP - Weak Blow thru-out 1/2" To 1" Blow				
	FFP - NO BLOW				

Recovery - Total Feet	15	GIP	—	Ft. in DC	—	Ft. in DP	15
Rec.	15	Feet of	Mud	%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
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	109	°F Gravity	—	°API D @	—	°F Corrected Gravity	—
RW	—	@	—	°F	Chlorides	— ppm	Recovery
					Chlorides	2000	ppm System

AK-1	Alpine		
(A) Initial Hydrostatic Mud	PSI	Recorder No.	6668
(B) First Initial Flow Pressure	49 PSI	(depth)	3382
(C) First Final Flow Pressure	61 PSI	Recorder No.	13534
(D) Initial Shut-In Pressure	408 PSI	(depth)	3443
(E) Second Initial Flow Pressure	55 PSI	Recorder No.	13401
(F) Second Final Flow Pressure	59 PSI	(depth)	3453
(G) Final Shut-In Pressure	457 PSI	Initial Opening	30
(Q) Final Hydrostatic Mud	1617 PSI	Initial Shut-In	30
		Final Flow	30
		Final Shut-In	45
		T-On Location	1600
		T-Started	1636
		T-Open	1745
		T-Pulled	2000
		T-Out	2130
		Test	900
		Elec. Rec.	✓
		Jars	
		Safety Jt.	
		Circ Sub	
		Sampler	
		Straddle	200
		Ext. Packer	100
		Shale Packer	
		Mileage	30 RT 25.50
		Sub Total:	1325.50
		Std. By	
		Other	
		Total:	

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Approved By Matt Dwyer

Our Representative RAY SCHWAGER THANK YOU

CHART PAGE

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13534
OSTAL
J.O. FENNEL

