

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

5-13s-17w Ellis Ks

Nuss #1

Start Date: 2004.05.15 @ 19:20:08

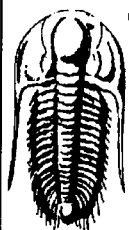
End Date: 2004.05.16 @ 01:52:07

Job Ticket #: 19309 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

Nuss #1

5-13s-17w Ellis Ks

Job Ticket: 19309

DST#: 1

Test Start: 2004.05.15 @ 19:20:08

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:01:07

Time Test Ended: 01:52:07

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3286.00 ft (KB) To 3376.00 ft (KB) (TVD)**

Total Depth: 3376.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2074.00 ft (KB)

2066.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668

Inside

Press@RunDepth: 138.61 psig @ 3290.01 ft (KB)

Start Date: 2004.05.15

End Date:

2004.05.16

Start Time: 19:20:08

End Time:

01:52:07

Capacity: 7000.00 psig

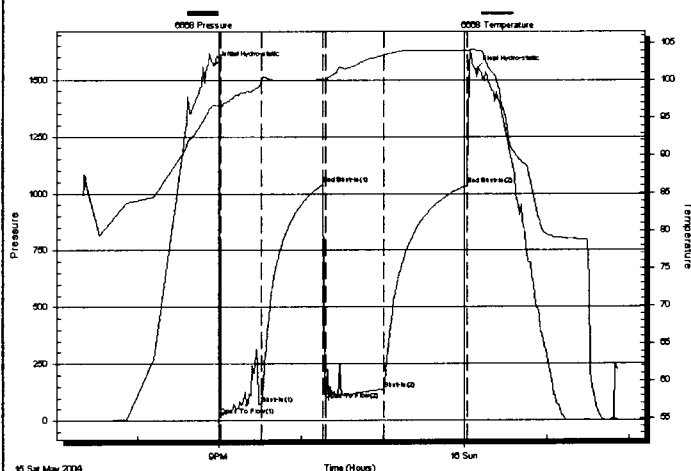
Last Calib.: 2004.05.16

Time On Btm: 2004.05.15 @ 20:56:37

Time Off Btm: 2004.05.16 @ 00:08:07

TEST COMMENT: IFP-w k to a gd bl 1/2" to 9" bl
FFP-w k bl thru-out 1/4" to 3" bl
Times 30-45-45-60
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

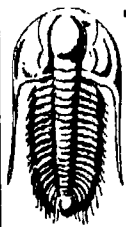
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1566.67	96.63	Initial Hydro-static
5	22.47	96.41	Open To Flow (1)
35	72.61	100.16	Shut-In (1)
80	1039.87	100.11	End Shut-In (1)
82	89.82	100.05	Open To Flow (2)
125	138.61	103.39	Shut-In (2)
186	1036.18	103.99	End Shut-In (2)
192	1544.20	104.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SO&GCM 4%gas 4%oil 92%mud	1.68
60.00	SOCMW 2%oil 68%water 30%mud	0.84
60.00	SOCMW 1%oil 94%water 5%mud	0.84

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

Nuss #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis Ks

Job Ticket: 19309

DST#: 1

ATTN: John O Farmer IV

Test Start: 2004.05.15 @ 19:20:08

Tool Information

Drill Pipe:	Length: 3297.00 ft	Diameter: 3.80 inches	Volume: 46.25 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: 80000.00 lb
		Total Volume: 46.25 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3286.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.02 ft			
Tool Length:	111.02 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			3266.00	
Shut In Tool	5.00			3271.00	
Hydraulic tool	5.00			3276.00	
Packer	5.00			3281.00	21.00 Bottom Of Top Packer
Packer	5.00			3286.00	
Stubb	1.00			3287.00	
Perforations	2.00			3289.00	
Change Over Sub	1.00			3290.00	
Recorder	0.01	6668	Inside	3290.01	
Blank Spacing	62.00			3352.01	
Change Over Sub	1.00			3353.01	
Recorder	0.01	11085	Outside	3353.02	
Perforations	20.00			3373.02	
Bullnose	3.00			3376.02	90.02 Bottom Packers & Anchor

Total Tool Length: 111.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Nuss #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis Ks

Job Ticket: 19309

DST#: 1

ATTN: John O Farmer IV

Test Start: 2004.05.15 @ 19:20:08

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: 37000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SO&GCM 4%gas 4%oil 92%mud	1.683
60.00	SOCMW 2%oil 68%w ater 30%mud	0.842
60.00	SOCMW 1%oil 94%w ater 5%mud	0.842

Total Length: 240.00 ft Total Volume: 3.367 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .23@61F

DST Test Number: 1

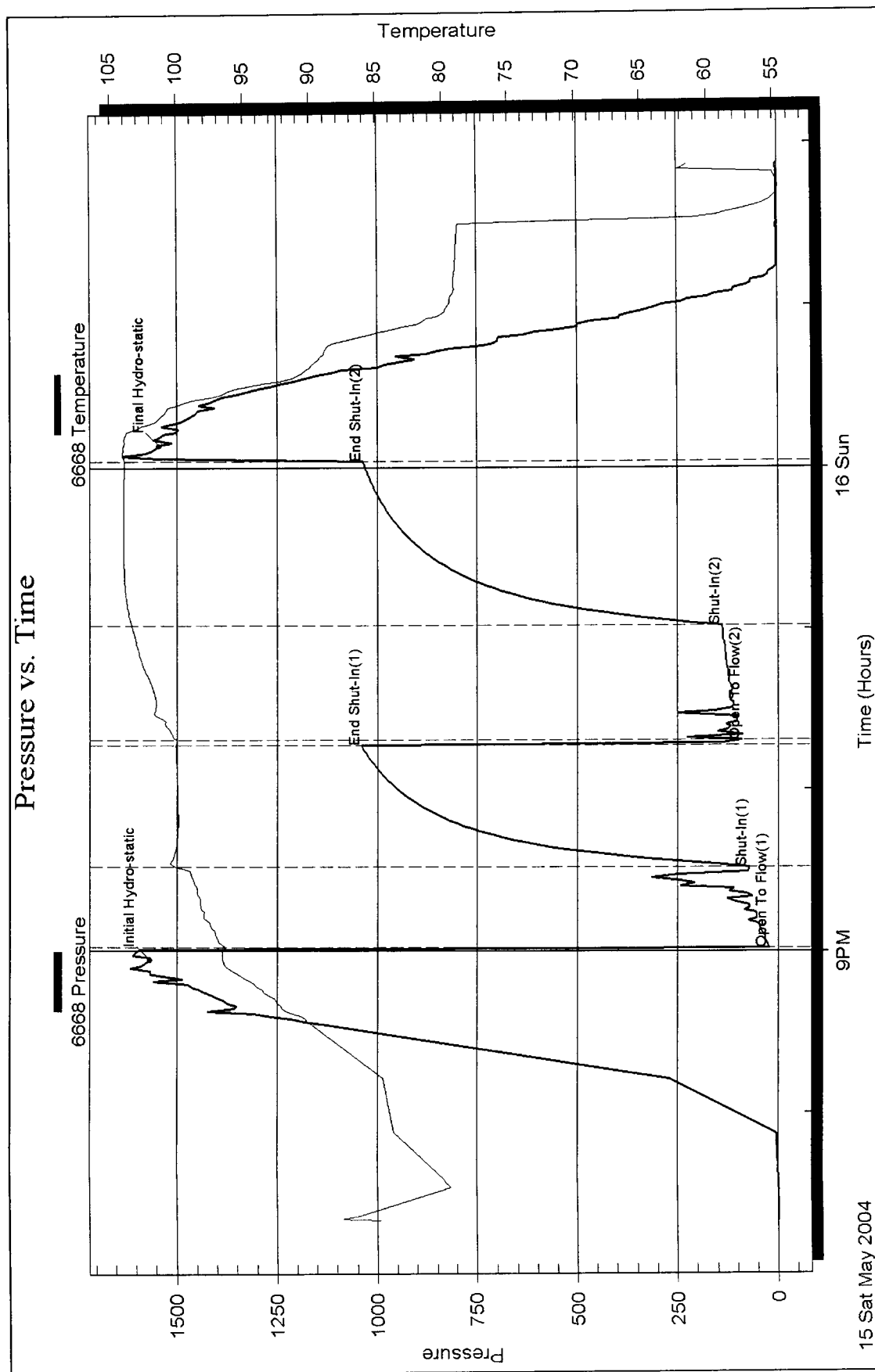
5-13s-17w Ellis Ks

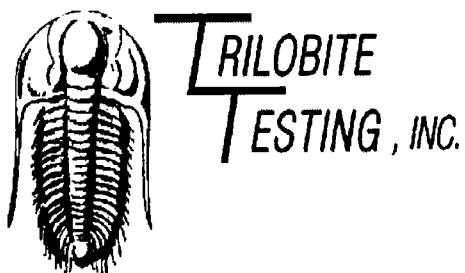
John O Farmer Inc

Inside

Serial #: 6668

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

5-13s-17w Ellis Ks

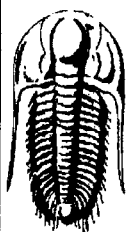
Nuss #1

Start Date: 2004.05.16 @ 09:45:58

End Date: 2004.05.16 @ 15:51:57

Job Ticket #: 19310 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

Nuss #1

5-13s-17w Ellis Ks

Job Ticket: 19310

DST#: 2

Test Start: 2004.05.16 @ 09:45:58

GENERAL INFORMATION:

Formation: **LKC D-G**

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

Time Tool Opened: 11:06:27

Time Test Ended: 15:51:57

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **28**

Interval: **3374.00 ft (KB) To 3435.00 ft (KB) (TVD)**

Total Depth: **3435.00 ft (KB) (TVD)**

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

Reference Elevations: **2074.00 ft (KB)**

2066.00 ft (CF)

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

Serial #: **6668**

Inside

Press@RunDepth: **70.81 psig @ 3381.01 ft (KB)**

Start Date: **2004.05.16**

End Date:

2004.05.16

Start Time: **09:45:58**

End Time:

15:51:57

Capacity: **7000.00 psig**

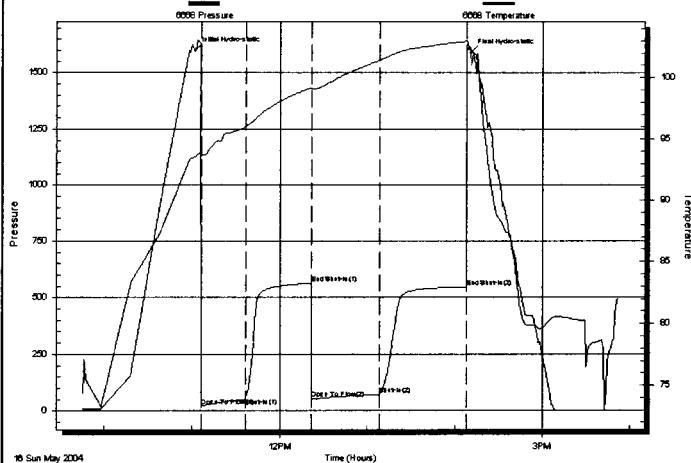
Last Calib.: **2004.05.16**

Time On Btm: **2004.05.16 @ 11:02:27**

Time Off Btm: **2004.05.16 @ 14:10:27**

TEST COMMENT: IFP-w k bl thru-out 1/2" to 2" bl
FFP-w k bl thru-out 1/4" to 1" bl
Times 30-45-45-60
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

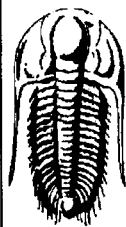
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.52	93.55	Initial Hydro-static
4	19.62	93.67	Open To Flow (1)
35	57.38	96.00	Shut-In(1)
79	563.03	99.15	End Shut-In(1)
80	52.82	99.05	Open To Flow (2)
126	70.81	101.40	Shut-In(2)
185	544.28	102.96	End Shut-In(2)
188	1590.96	102.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.07
40.00	O&GCM 5%gas 6%oil 89%mud	0.56
60.00	SO&GCMW 3gas 3oil 54water 40mud	0.84

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

Nuss #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis Ks

Job Ticket: 19310

DST#: 2

ATTN: John O Farmer IV

Test Start: 2004.05.16 @ 09:45:58

Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 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: 80000.00 lb
			Total Volume: 47.13 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3374.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.02 ft			
Tool Length:	82.02 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			3354.00	
Shut In Tool	5.00			3359.00	
Hydraulic tool	5.00			3364.00	
Packer	5.00			3369.00	21.00 Bottom Of Top Packer
Packer	5.00			3374.00	
Stubb	1.00			3375.00	
Perforations	5.00			3380.00	
Change Over Sub	1.00			3381.00	
Recorder	0.01	6668	Inside	3381.01	
Blank Spacing	30.00			3411.01	
Change Over Sub	1.00			3412.01	
Recorder	0.01	11085	Outside	3412.02	
Perforations	20.00			3432.02	
Bullnose	3.00			3435.02	61.02 Bottom Packers & Anchor

Total Tool Length: 82.02



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Nuss #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis Ks

Job Ticket: 19310

DST#: 2

ATTN: John O Farmer IV

Test Start: 2004.05.16 @ 09:45:58

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:

33000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.71 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 17000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	CO	0.070
40.00	O&GCM 5%gas 6%oil 89%mud	0.561
60.00	SO&GCMW 3gas 3oil 54w ater 40mud	0.842

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 .26@60F

Serial #: 6668

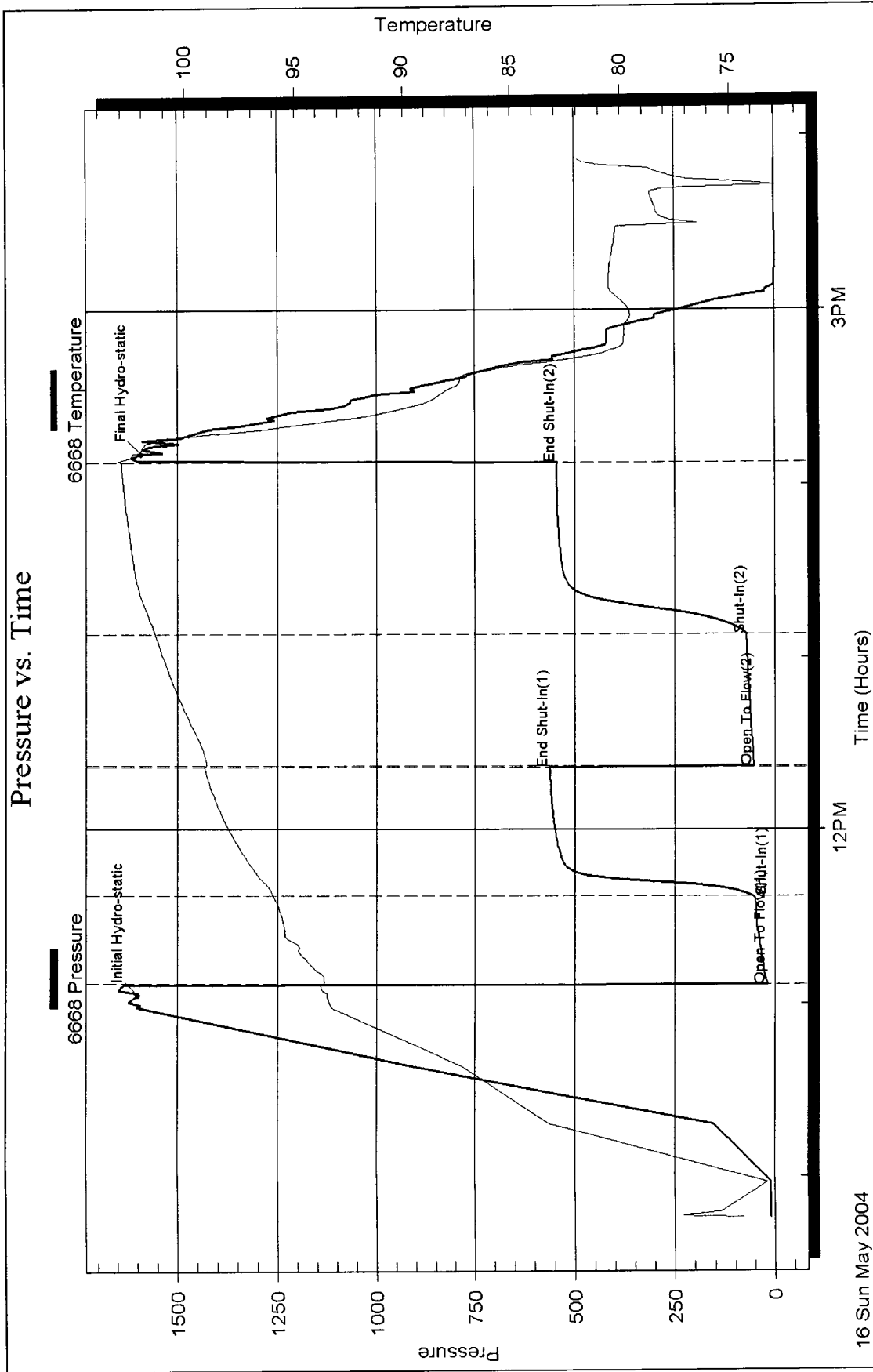
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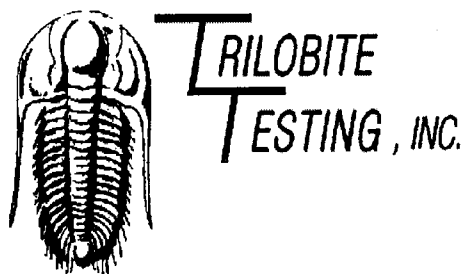
John O Farmer Inc

5-13s-17w Ellis Ks

DST Test Number: 2

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

5-13s-17w Ellis Ks

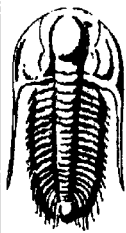
Nuss #1

Start Date: 2004.05.17 @ 07:37:54

End Date: 2004.05.17 @ 12:31:53

Job Ticket #: 19311 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

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

Nuss #1

5-13s-17w Ellis Ks

Job Ticket: 19311

DST#: 3

Test Start: 2004.05.17 @ 07:37:54

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:10:23

Time Test Ended: 12:31:53

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3546.00 ft (KB) To 3617.00 ft (KB) (TVD)**

Total Depth: 3617.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2074.00 ft (KB)

2066.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **6668**

Inside

Press@RunDepth: 29.77 psig @ 3555.01 ft (KB)

Start Date: 2004.05.17

End Date:

2004.05.17

Start Time: 07:37:54

End Time:

12:31:53

Capacity: 7000.00 psig

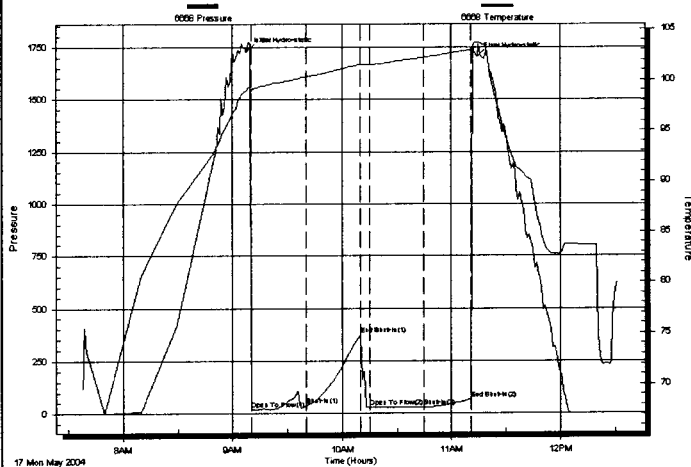
Last Calib.: 2004.05.17

Time On Btm: 2004.05.17 @ 09:07:53

Time Off Btm: 2004.05.17 @ 11:14:23

TEST COMMENT: IFP-wk bl thru-out 3/4" to 1/2"bl
FFP-no bl 1st 5 min , then surface bl thru-out
Times 30-30-30-30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.58	98.91	Initial Hydro-static
3	19.16	98.80	Open To Flow (1)
33	36.50	100.30	Shut-In(1)
62	374.64	101.49	End Shut-In(1)
67	29.41	101.48	Open To Flow (2)
97	29.77	102.20	Shut-In(2)
123	67.29	102.94	End Shut-In(2)
127	1704.85	103.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	CO	0.03
18.00	OCM 10%oil 90%mud	0.25

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

Nuss #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis Ks

Job Ticket: 19311

DST#: 3

ATTN: John O Farmer IV

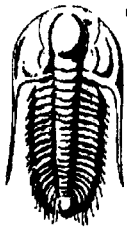
Test Start: 2004.05.17 @ 07:37:54

Tool Information

Drill Pipe:	Length: 3548.00 ft	Diameter: 3.80 inches	Volume: 49.77 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:	80000.00 lb
			<u>Total Volume: 49.77 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	3546.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.02 ft				
Tool Length:	92.02 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			3526.00	
Shut In Tool	5.00			3531.00	
Hydraulic tool	5.00			3536.00	
Packer	5.00			3541.00	21.00 Bottom Of Top Packer
Packer	5.00			3546.00	
Stubb	1.00			3547.00	
Perforations	7.00			3554.00	
Change Over Sub	1.00			3555.00	
Recorder	0.01	6668	Inside	3555.01	
Blank Spacing	30.00			3585.01	
Change Over Sub	1.00			3586.01	
Recorder	0.01	11085	Outside	3586.02	
Perforations	28.00			3614.02	
Bullnose	3.00			3617.02	71.02 Bottom Packers & Anchor

Total Tool Length: 92.02



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Nuss #1

P O Box 352
Russell Ks 67665

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Job Ticket: 19311

DST#: 3

ATTN: John O Farmer IV

Test Start: 2004.05.17 @ 07:37:54

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: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.71 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 17000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	CO	0.028
18.00	OCM 10%oil 90%mud	0.252

Total Length: 20.00 ft Total Volume: 0.280 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 3

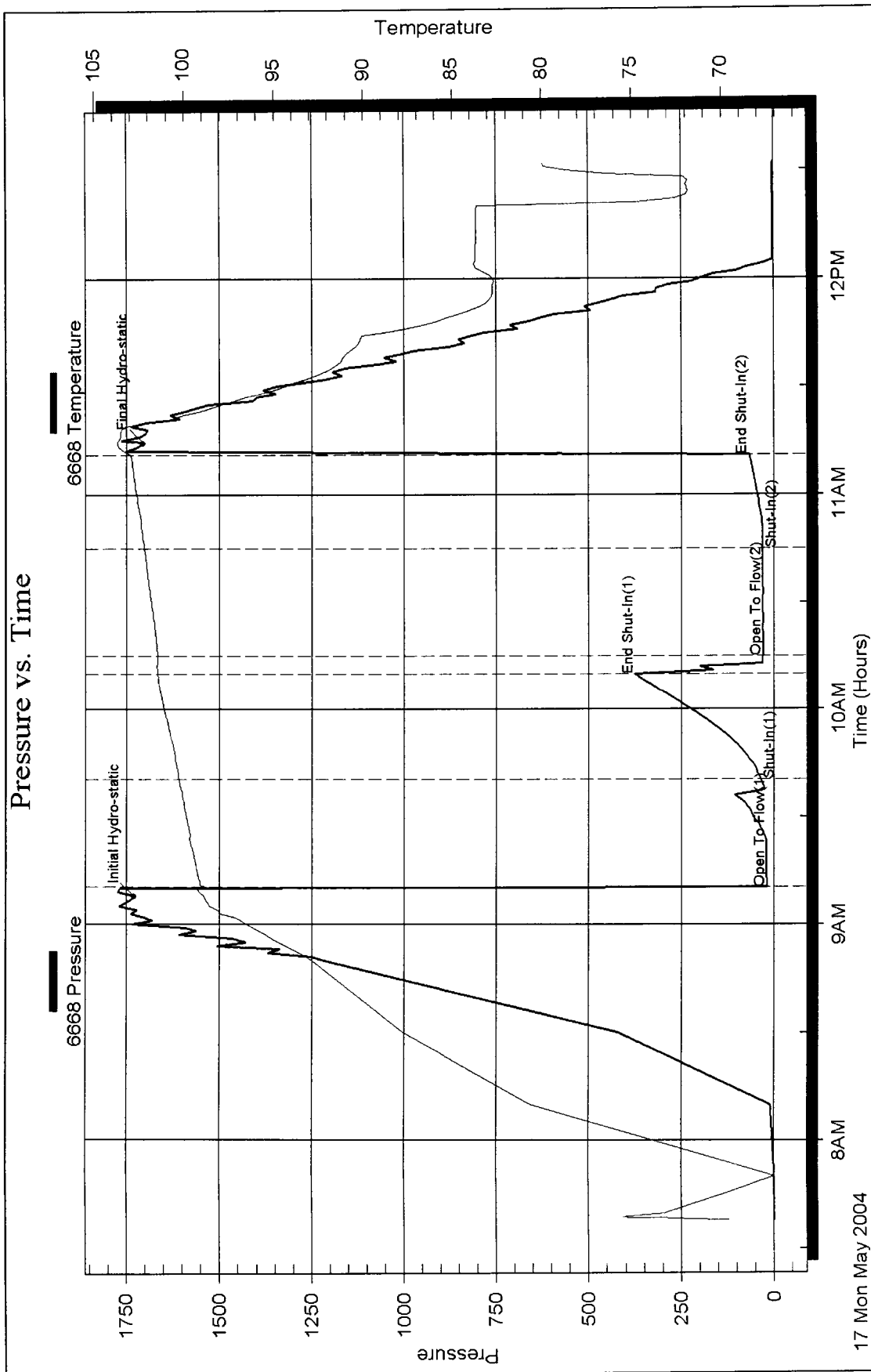
5-13s-17w Ellis Ks

John O Farmer Inc

Inside

Serial #: 6668

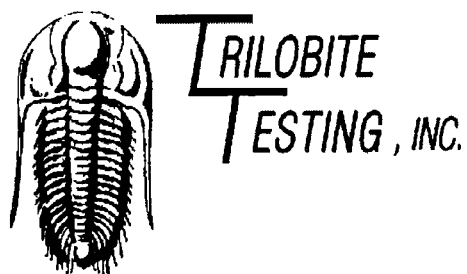
Pressure vs. Time



Ref. No: 19311

Trilobite Testing, Inc

Printed: 2004.05.25 @ 10:11:41 Page 5



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John O Farmer IV

5-13s-17w Ellis Ks

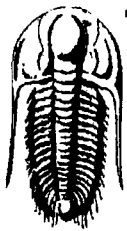
Nuss #1

Start Date: 2004.05.18 @ 03:04:33

End Date: 2004.05.18 @ 09:23:32

Job Ticket #: 19312 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

Nuss #1

5-13s-17w Ellis Ks

Job Ticket: 19312

DST#: 4

Test Start: 2004.05.18 @ 03:04:33

GENERAL INFORMATION:

Formation: LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:34:32

Time Test Ended: 09:23:32

Test Type: Conventional Straddle

Tester: Ray Schwager

Unit No: 28

Interval: 3475.00 ft (KB) To 3559.00 ft (KB) (TVD)

Total Depth: 3679.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2074.00 ft (KB)

2066.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668

Inside

Press@RunDepth: 236.86 psig @ 3476.01 ft (KB)

Start Date: 2004.05.18

End Date:

2004.05.18

Start Time: 03:04:33

End Time:

09:23:32

Capacity: 7000.00 psig

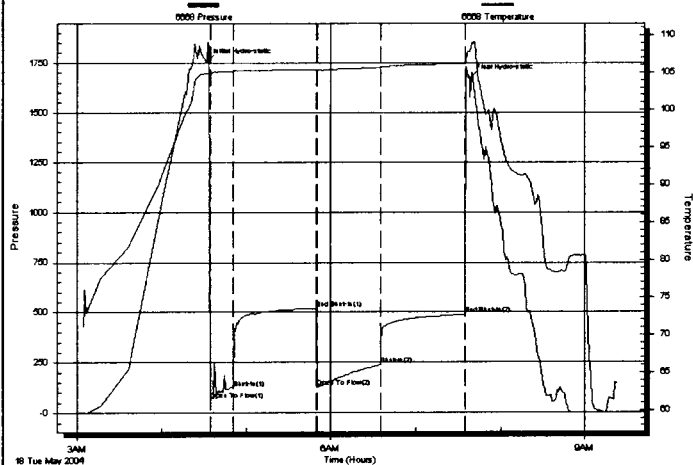
Last Calib.: 2004.05.18

Time On Btm: 2004.05.18 @ 04:32:02

Time Off Btm: 2004.05.18 @ 07:38:02

TEST COMMENT: IFP-w k to strg in 9 min
FFP-w k to a fr bl 1/2" to 4" bl
Times 30-45-45-60
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

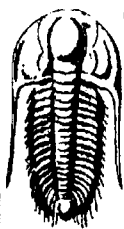
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.56	104.89	Initial Hydro-static
3	64.71	104.76	Open To Flow (1)
19	123.90	105.16	Shut-In (1)
78	518.43	105.44	End Shut-In (1)
79	126.20	105.34	Open To Flow (2)
123	236.86	105.68	Shut-In (2)
183	487.55	106.19	End Shut-In (2)
186	1672.30	107.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	OCM 5% oil 6% water 89% mud	1.47
60.00	OCWM 5% oil 24% water 71% mud	0.84
240.00	water RW.31 @ 63F	3.37

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

Nuss #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis Ks

Job Ticket: 19312

DST#: 4

ATTN: John O Farmer IV

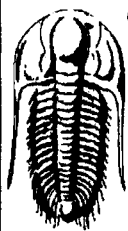
Test Start: 2004.05.18 @ 03:04:33

Tool Information

Drill Pipe:	Length:	3476.00 ft	Diameter:	3.80 inches	Volume:	48.76 bbl	Tool Weight:	2500.00 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:	75000.00 lb
					Total Volume:	48.76 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft						String Weight: Initial	56000.00 lb
Depth to Top Packer:	3475.00 ft						Final	60000.00 lb
Depth to Bottom Packer:	3559.02 ft							
Interval between Packers:	84.02 ft							
Tool Length:	226.03 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			3460.00	
Shut In Tool	5.00			3465.00	
Hydraulic tool	5.00			3470.00	
Packer	5.00			3475.00	16.00 Bottom Of Top Packer
Stubb	1.00			3476.00	
Recorder	0.01	6668	Inside	3476.01	
Perforations	5.00			3481.01	
Change Over Sub	1.00			3482.01	
Blank Spacing	62.00			3544.01	
Change Over Sub	1.00			3545.01	
Recorder	0.01	11085	Outside	3545.02	
Perforations	11.00			3556.02	
Blank Off Sub	1.00			3557.02	
Blank Spacing	2.00			3559.02	
Packer	5.00			3564.02	84.02 Tool Interval
Packer	5.00			3569.02	
Stubb	1.00			3570.02	
Perforations	17.00			3587.02	
Change Over Sub	1.00			3588.02	
Blank Spacing	93.00			3681.02	
Recorder	0.01			3681.03	
Change Over Sub	1.00			3682.03	
Bullnose	3.00			3685.03	126.01 Bottom Packers & Anchor
Total Tool Length:	226.03				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Nuss #1

P O Box 352
Russell Ks 67665

5-13s-17w Ellis Ks

Job Ticket: 19312

DST#: 4

ATTN: John O Farmer IV

Test Start: 2004.05.18 @ 03:04:33

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.72 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 17000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	OCM 5%oil 6%w ater 89%mud	1.473
60.00	OCWM 5%oil 24%w ater 71%mud	0.842
240.00	water RW.31@63F	3.367

Total Length: 405.00 ft Total Volume: 5.682 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

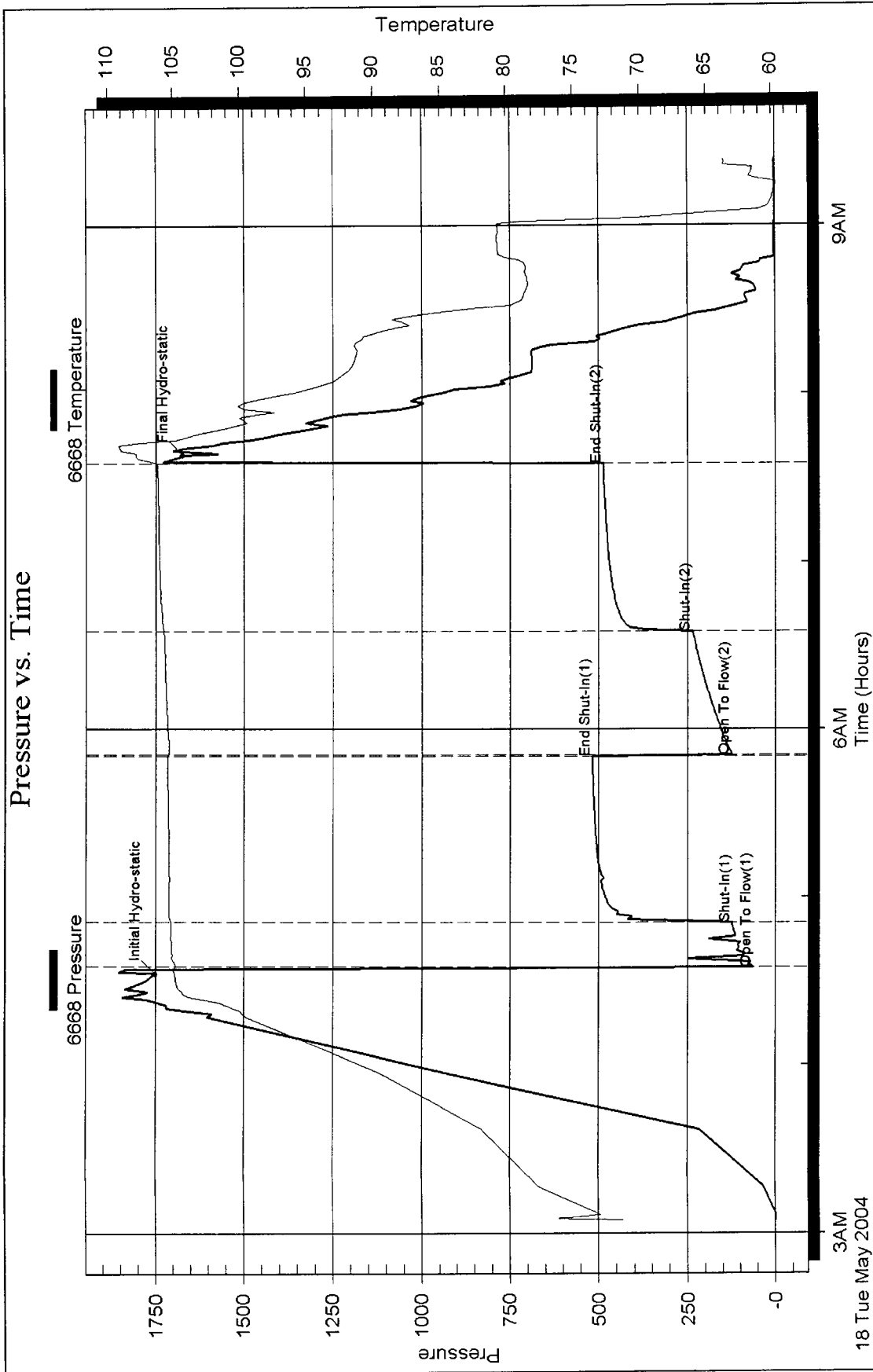
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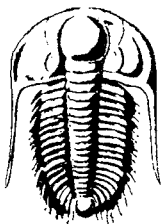
Inside

John O Farmer Inc

5-13s-17w Ellis Ks

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19809

05/03

Test Ticket

Well Name & No. Nuss #1 Test No. 1 Date 5-15-04
Company John O. Farmer, Inc. Zone Tested Toronto - LKC "C"
Address P.O. Box 352 Russell, Ko 67665 Elevation 2074 KB 2066 GL
Co. Rep / Geo. MATT Drilling Cont. Discovery rig Est. Ft. of Pay — Por. — %
Location: Sec. 5 Twp. 13^s Rge. 17^w Co. ELLIS State Ko
No. of Copies Reg Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3286 - 3376 Initial Str Wt./Lbs. 54000 Unseated Str Wt./Lbs. 55000
Anchor Length 90 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 80000
Top Packer Depth 3281 Tool Weight 2200
Bottom Packer Depth 3286 Hole Size 7 7/8" Rubber Size 6 3/4"
Total Depth 3376 Wt. Pipe Run — Drill Collar Run —
Mud Wt. 8.8 LCM 1/8" Vis. 46 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3297
Blow Description TFP - Weak To A Good Blow 1/2" To 9" Blow
FFP - Weak Blow thru-out 1/4" To 3" Blow
Nb Blow on shut-in

Recovery - Total Feet 240 GIP — Ft. in DC — Ft. in DP 240
Rec. 120 Feet of 5076 CM 4 %gas 4 %oil %water 92 %mud
Rec. 60 Feet of 50 CMW %gas 2 %oil 68 %water 30 %mud
Rec. 60 Feet of 50 CMW %gas 1 %oil 94 %water 5 %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 .23 @ 61 °F Chlorides 37000 ppm Recovery — Chlorides 13000 ppm System

AK-1

(A) Initial Hydrostatic Mud	<u>1566</u> PSI	Recorder No.	<u>6668</u>	Test	<u>700</u>
(B) First Initial Flow Pressure	<u>22</u> PSI	(depth)	<u>3290</u>	Elec. Rec.	<u>150</u>
(C) First Final Flow Pressure	<u>72</u> PSI	Recorder No.	<u>11085</u>	Jars	<u>—</u>
(D) Initial Shut-In Pressure	<u>1039</u> PSI	(depth)	<u>3353</u>	Safety Jt.	<u>—</u>
(E) Second Initial Flow Pressure	<u>89</u> PSI	Recorder No.	<u>—</u>	Circ Sub	<u>—</u>
(F) Second Final Flow Pressure	<u>138</u> PSI	(depth)	<u>—</u>	Sampler	<u>—</u>
(G) Final Shut-In Pressure	<u>1036</u> PSI	Initial Opening	<u>30</u>	Straddle	<u>—</u>
(Q) Final Hydrostatic Mud	<u>1544</u> PSI	Initial Shut-In	<u>45</u>	Ext. Packer	<u>—</u>
		Final Flow	<u>45</u>	Shale Packer	<u>—</u>
		Final Shut-In	<u>60</u>	Mileage	<u>✓ 12 one way 20.40</u>
		T-On Location	<u>1830</u>	Sub Total:	<u>870.40</u>
		T-Started	<u>1920</u>	Std. By	<u>—</u>
		T-Open	<u>2100</u>	Other	<u>—</u>
		T-Pulled	<u>0000</u>	Total:	<u>—</u>
		T-Out	<u>0152</u>		

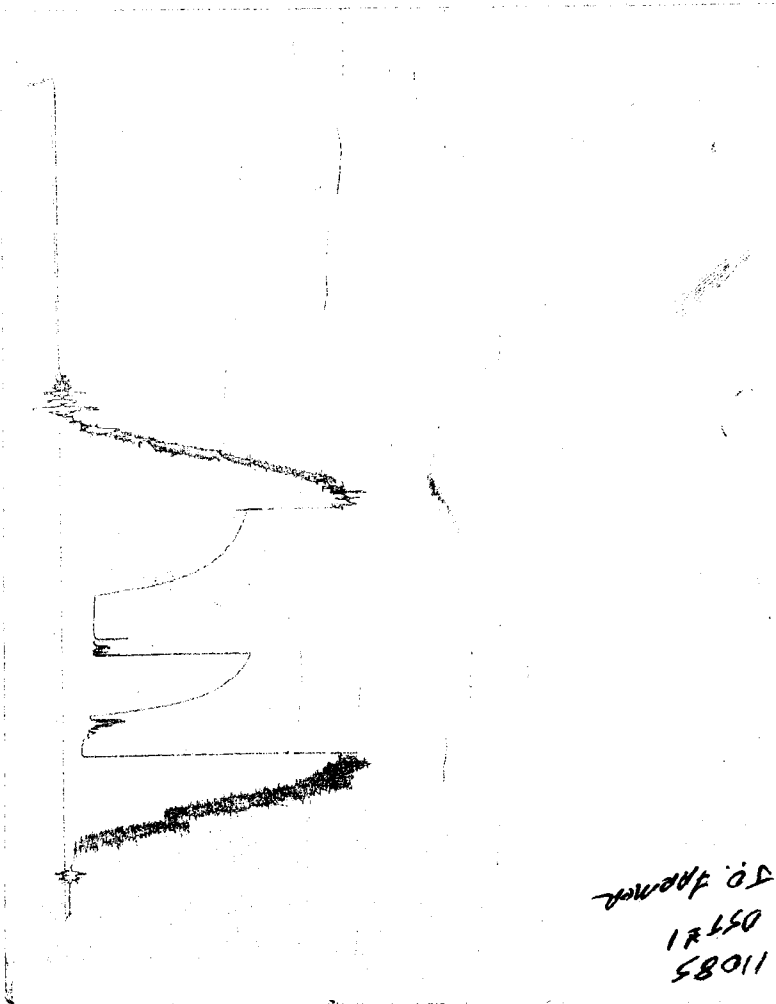
Approved By Ray Schwager THANK 404

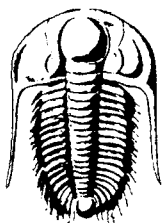
Our Representative Ray Schwager THANK 404

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CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 19310

05/03

Test Ticket

Well Name & No.	Nuss #1	Test No.	2	Date	5-16-04
Company	John O. Farmer Inc	Zone Tested	LKC D-G		
Address	P.O. Box 352 Russell, KS 67665	Elevation	2074	KB	2066 GL
Co. Rep / Geo.	MATT Darling	Cont.	Discovery rig 1	Est. Ft. of Pay	— Por. — %
Location: Sec.	5	Twp.	13 ^s	Rge.	12 ^w Co. Ellis State KS
No. of Copies	Reg	Distribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	3374-3435	Initial Str Wt./Lbs.	52000	Unseated Str Wt./Lbs.	53000
Anchor Length	61	Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	80000
Top Packer Depth	3369	Tool Weight	2200		
Bottom Packer Depth	3374	Hole Size 7 7/8"	—	Rubber Size 6 3/4"	—
Total Depth	3435	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt.	8.8	LCM	—	Vis.	46
		WL	8.8	Drill Pipe Size	4 1/2 x H
Blow Description	IFP - Weak Blow thru-out 1/2" To 2" Blow				
	FFP - Weak Blow thru-out 1/2" To 1" Blow				
	No Blow on shut-in				

Recovery - Total Feet	105	GIP	75	Ft. in DC	—	Ft. in DP	105
Rec.	40	Feet of	0 9 6 CM	5 %gas	6 %oil	%water	89 %mud
Rec.	60	Feet of	50 6 CM W	3 %gas	3 %oil	54 %water	40 %mud
Rec.	5	Feet of	Co	%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	— °API
RW	. 26	@	60 °F	Chlorides	33000 ppm	Recovery	Chlorides 17000 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	1599	PSI	Recorder No.	6668	Test ✓
(B) First Initial Flow Pressure	19	PSI	(depth)	3381	Elec. Rec. ✓
(C) First Final Flow Pressure	57	PSI	Recorder No.	11085	Jars
(D) Initial Shut-In Pressure	563	PSI	(depth)	3412	Safety Jt.
(E) Second Initial Flow Pressure	52	PSI	Recorder No.	—	Circ Sub
(F) Second Final Flow Pressure	70	PSI	(depth)	—	Sampler
(G) Final Shut-In Pressure	544	PSI	Initial Opening	30	Straddle
(Q) Final Hydrostatic Mud	1590	PSI	Initial Shut-In	45	Ext. Packer
			Final Flow	45	Shale Packer
			Final Shut-In	60	Mileage ✓ 12
			T-On Location	0930	Sub Total: 870.40
			T-Started	0945	Std. By
			T-Open	1105	Other
			T-Pulled	1405	Total:
			T-Out	1551	

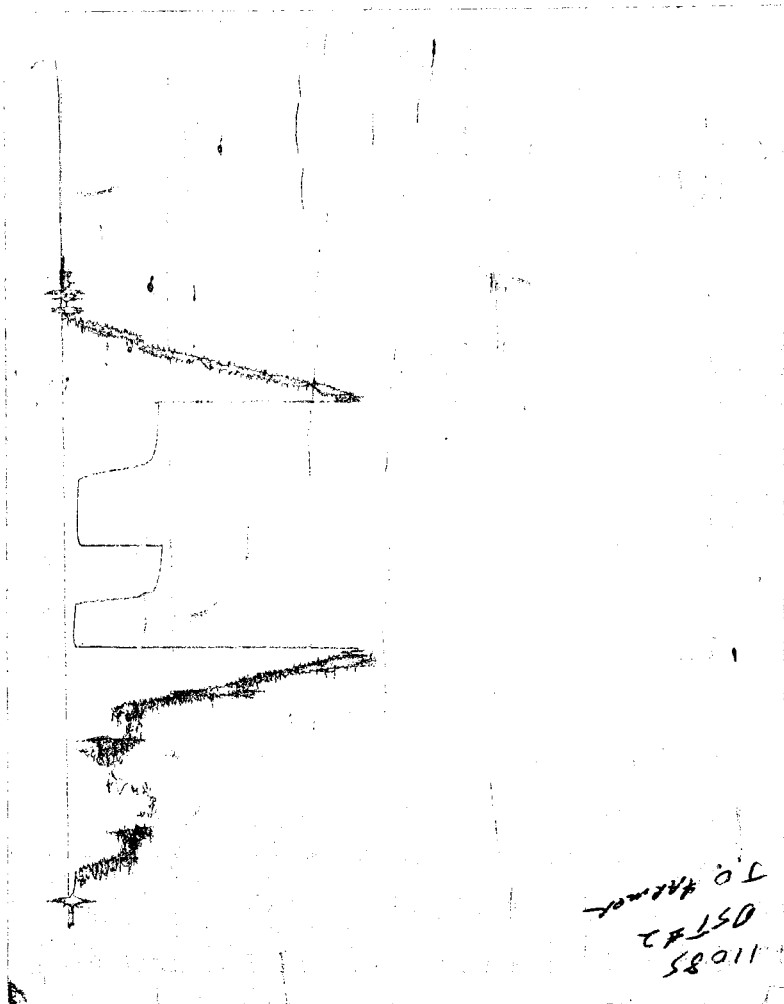
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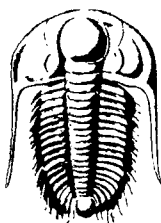
Approved By _____

Our Representative RAY SCHWAGER THAK 1104

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19311

05/03

Test Ticket

Well Name & No.	Nuss #1	Test No.	3	Date	5-17-04
Company	John O. Farmer Inc	Zone Tested	Arbuckle		
Address	P.O. Box 352 Russell, Ko 67665	Elevation	2074	KB	2066 GL
Co. Rep / Geo.	MATT Drieling	Cont.	Discovery rig 1	Est. Ft. of Pay	- Por. - %
Location: Sec.	5	Twp.	13 ^s	Rge.	17 ^w Co. Ellis State Ko
No. of Copies	Reg	Disbtribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	3546-3617	Initial Str Wt./Lbs.	54000	Unseated Str Wt./Lbs.	54000
Anchor Length	71	Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	80000
Top Packer Depth	3541	Tool Weight	2200		
Bottom Packer Depth	3546	Hole Size 7 7/8"	-	Rubber Size 6 3/4"	-
Total Depth	3617	Wt. Pipe Run	-	Drill Collar Run	-
Mud Wt.	9	LCM	-	Vis.	46
		WL	8.8	Drill Pipe Size	4 1/2 X H
Blow Description	IFP - WEAK Blow thru-out 3/4" to 1/2" Blow				
	FFP - No Blow 1 st 5 min, then surface Blow thru-out				

Recovery - Total Feet	20	GIP	-	Ft. in DC	-	Ft. in DP	20
Rec.	2	Feet of	CO	%gas		%oil	
Rec.	18	Feet of	OCM	%gas	10	%oil	90
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
BHT	103	°F Gravity	-	°API D @	-	°F Corrected Gravity	-
RW	-	@	-	°F	Chlorides	17000	ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1729	PSI	Recorder No.	6668	Test	✓
(B) First Initial Flow Pressure			19	PSI	(depth)	3555	Elec. Rec.	✓
(C) First Final Flow Pressure			36	PSI	Recorder No.	11085	Jars	
(D) Initial Shut-In Pressure			374	PSI	(depth)	3586	Safety Jt.	
(E) Second Initial Flow Pressure			29	PSI	Recorder No.	-	Circ Sub	
(F) Second Final Flow Pressure			29	PSI	(depth)	-	Sampler	
(G) Final Shut-In Pressure			67	PSI	Initial Opening	30	Straddle	
(Q) Final Hydrostatic Mud			1704	PSI	Initial Shut-In	30	Ext. Packer	

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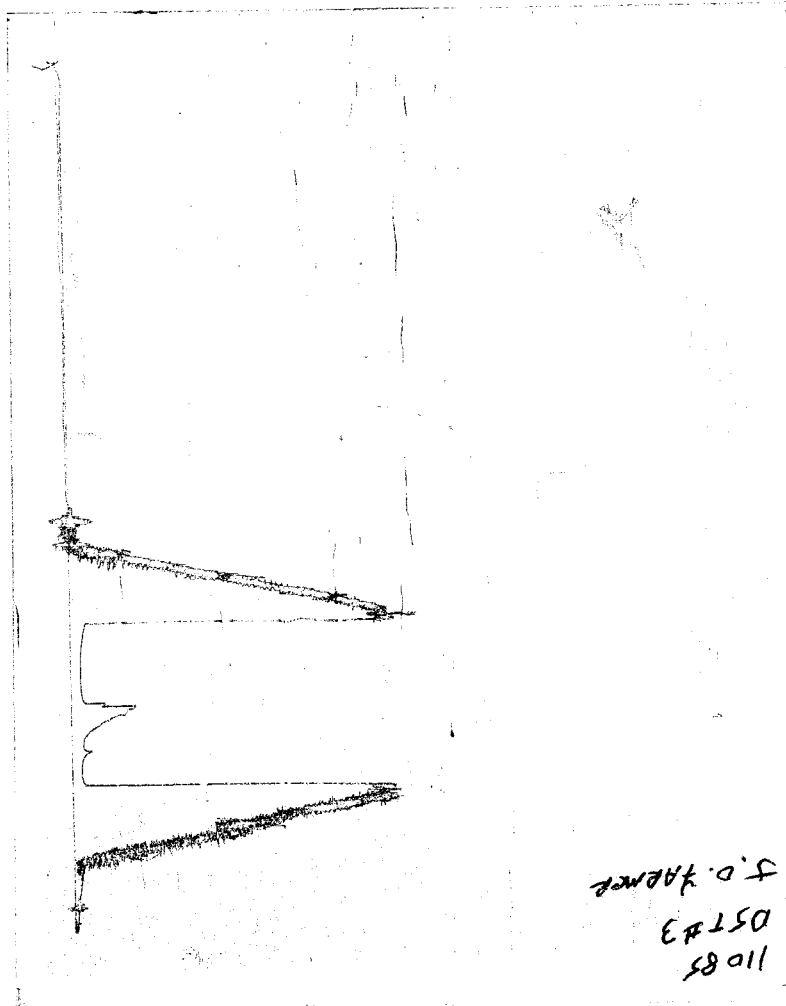
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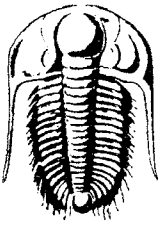
Our Representative Ray Schwager Thank

Final Flow	30	Shale Packer	
Final Shut-In	30	Mileage	✓ 12
T-On Location	0715	Sub Total:	870.40
T-Started	0737	Std. By	
T-Open	0910	Other	
T-Pulled	1110	Total:	
T-Out	1231		

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 19312

05/03

Test Ticket

Well Name & No.	Nuss #1	Test No.	4	Date	5-18-04
Company	John O Farmer Inc	Zone Tested	LKC		
Address	P.O. Box 352 Russell, Ks 67665	Elevation	2074	KB	2066 GL
Co. Rep / Geo.	MATT Orieling	Cont.	Discovery rig	Est. Ft. of Pay	- Por. - %
Location: Sec.	5	Twp.	13 ^s	Rge.	17 ^w Co. Ellis State Ks
No. of Copies	Reg	Disbtribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	3475 - 3589	Initial Str Wt./Lbs.	56000	Unseated Str Wt./Lbs.	60000
Anchor Length	84	Wt. Set Lbs.	25000	Wt. Pulled Loose/Lbs.	75000
Top Packer Depth	3475	Tool Weight	2500		
Bottom Packer Depth	3564 - 3559	Hole Size 7 7/8"	-	Rubber Size 6 3/4"	-
Total Depth	3679	Wt. Pipe Run	-	Drill Collar Run	-
Mud Wt.	9.3 LCM	Vis.	47	WL	8.8
Drill Pipe Size	4 1/2 XH	Ft. Run	3476		
Blow Description	IFP - WEAK TO STRONG IN 9 MIN FFP - WEAK TO A FAIR BLOW 1/2" TO 4" BLOW NO BLOW ON SHUT-IN				

Recovery - Total Feet	405	GIP	-	Ft. in DC	-	Ft. in DP	405
Rec.	105	Feet of	OCM	%gas	5	%oil	6
Rec.	60	Feet of	OCWM	%gas	5	%oil	24
Rec.	240	Feet of	WATER	%gas		%oil	
Rec.		Feet of		%gas		%oil	
Rec.		Feet of		%gas		%oil	
BHT	106	°F Gravity		°API D @		°F Corrected Gravity	
RW	.31	@	63 °F	Chlorides	32000 ppm	Recovery	
				Chlorides	12000 ppm	System	

(A) Initial Hydrostatic Mud	1752	PSI	Recorder No.	6668	Test	700
(B) First Initial Flow Pressure	64	PSI	(depth)	3476	Elec. Rec.	150
(C) First Final Flow Pressure	123	PSI	Recorder No.	11085	Jars	
(D) Initial Shut-In Pressure	518	PSI	(depth)	3545	Safety Jt.	
(E) Second Initial Flow Pressure	126	PSI	Recorder No.	13547	Circ Sub	
(F) Second Final Flow Pressure	236	PSI	(depth)	3676	Sampler	
(G) Final Shut-In Pressure	487	PSI	Initial Opening	30	Straddle	250
(Q) Final Hydrostatic Mud	1672	PSI	Initial Shut-In	45	Ext. Packer	150
			Final Flow	45	Shale Packer	2440
			Final Shut-In	60	Mileage	1277.40
			T-On Location	0215	Sub Total:	
			T-Started	0304	Std. By	
			T-Open	0435	Other	
			T-Pulled	0735	Total:	
			T-Out	0923		

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Approved By _____

Our Representative RAY SCHWAGER THANK
YOU

CHART PAGE

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11085
05184
J.O. FAIRMER

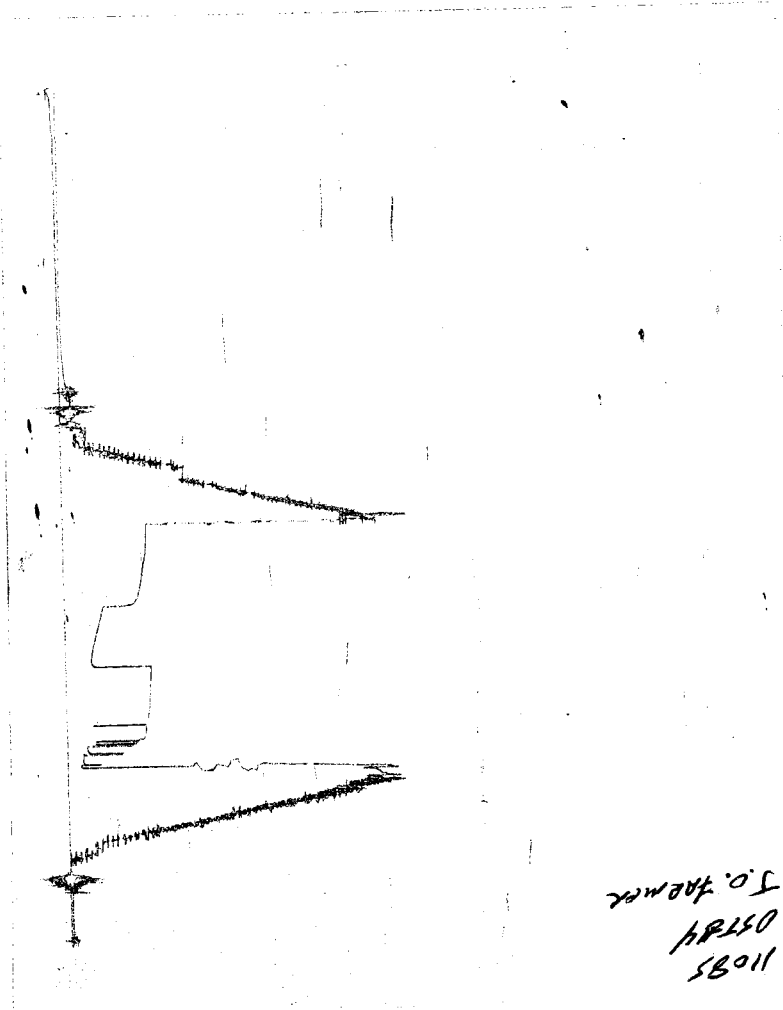


CHART PAGE

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13547
OST
J.D. FARMER

