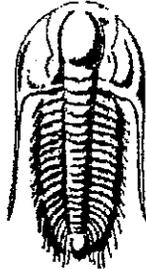


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AUG 30 2005



TRILOBITE
TESTING, INC. CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Wtr Ste 300
Wichita Ks 67202

ATTN: Scott Robinson

3-7-22-Graham-Ks

W

Worcester # 2-3

Start Date: 2005.08.13 @ 21:47:02

End Date: 2005.08.14 @ 05:04:32

Job Ticket #: 22045 DST #: 1

S2 NE SW

1650 FSL 1980 FWL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drlg Co Inc
Worcester # 2-3
3-7-22-Graham-Ks
DST # 1
B
LKC
2005.08.13
15-065-23083



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drig Co Inc

Worcester # 2-3

250 N Wtr Ste 300
Wichita Ks 67202

3-7-22-Graham-Ks

Job Ticket: 22045

DST#: 1

ATTN: Scott Robinson

Test Start: 2005.08.13 @ 21:47:02

GENERAL INFORMATION:

Formation: **B LKC**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 00:20:17
 Time Test Ended: 05:04:32

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 21

Interval: **3521.00 ft (KB) To 3546.00 ft (KB) (TVD)**
 Total Depth: **3546.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2263.00 ft (KB)**
2258.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: **6672**

Inside

Press@RunDepth: **125.15 psig @ 3522.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.08.13**

End Date:

2005.08.14

Last Calib.: **2005.08.14**

Start Time: **21:47:03**

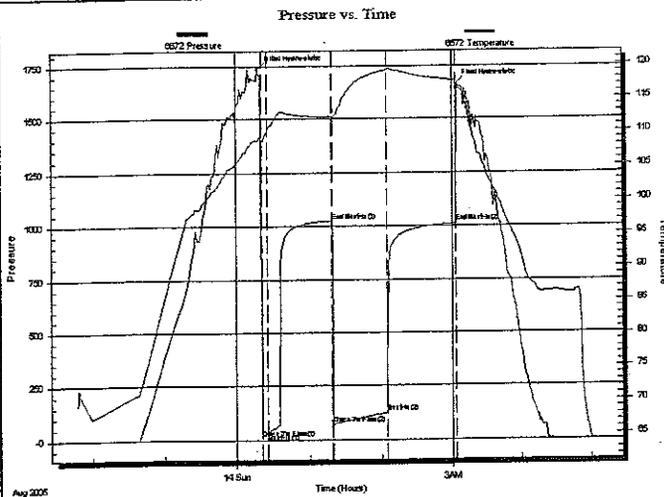
End Time:

05:04:32

Time On Btm: **2005.08.14 @ 00:17:47**

Time Off Btm: **2005.08.14 @ 03:04:02**

TEST COMMENT: IF-Weak building to 3"
 FF-Weak building to 1"
 Times-15-45-45-60



PRESSURE SUMMARY

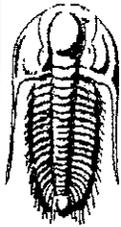
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.22	108.65	Initial Hydro-static
3	10.58	108.13	Open To Flow (1)
8	33.14	110.28	Shut-In(1)
61	1025.18	112.22	End Shut-In(1)
62	71.49	111.98	Open To Flow (2)
107	125.15	119.15	Shut-In(2)
166	1011.78	117.59	End Shut-In(2)
167	1661.66	116.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
194.00	Wtr Rw .10 @ 70 = 70000ppm	1.59
1.00	CO	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Worcester # 2-3

250 N Wtr Ste 300
Wichita Ks 67202

3-7-22-Graham-Ks

Job Ticket: 22045

DST#: 1

ATTN: Scott Robinson

Test Start: 2005.08.13 @ 21:47:02

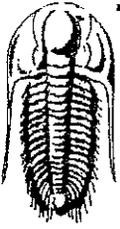
Tool Information

Drill Pipe:	Length: 3386.00 ft	Diameter: 3.80 inches	Volume: 47.50 bbl	Tool Weight: 1800.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3521.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3498.00	
Shut In Tool	5.00			3503.00	
Hydraulic tool	5.00			3508.00	
Safety Joint	3.00			3511.00	
Packer	5.00			3516.00	24.00 Bottom Of Top Packer
Packer	5.00			3521.00	
Stubb	1.00			3522.00	
Recorder	0.00	6672	Inside	3522.00	
Perforations	21.00			3543.00	
Recorder	0.00	13254	Outside	3543.00	
Bullnose	3.00			3546.00	25.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Worcester # 2-3

250 N Wtr Ste 300
Wichita Ks 67202

3-7-22-Graham-Ks

Job Ticket: 22045

DST#: 1

ATTN: Scott Robinson

Test Start: 2005.08.13 @ 21:47:02

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 7.18 in³
Resistivity: ohm.m
Salinity: 700.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
194.00	Wtr Rw .10 @ 70 = 70000ppm	1.592
1.00	CO	0.014

Total Length: 195.00 ft Total Volume: 1.606 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

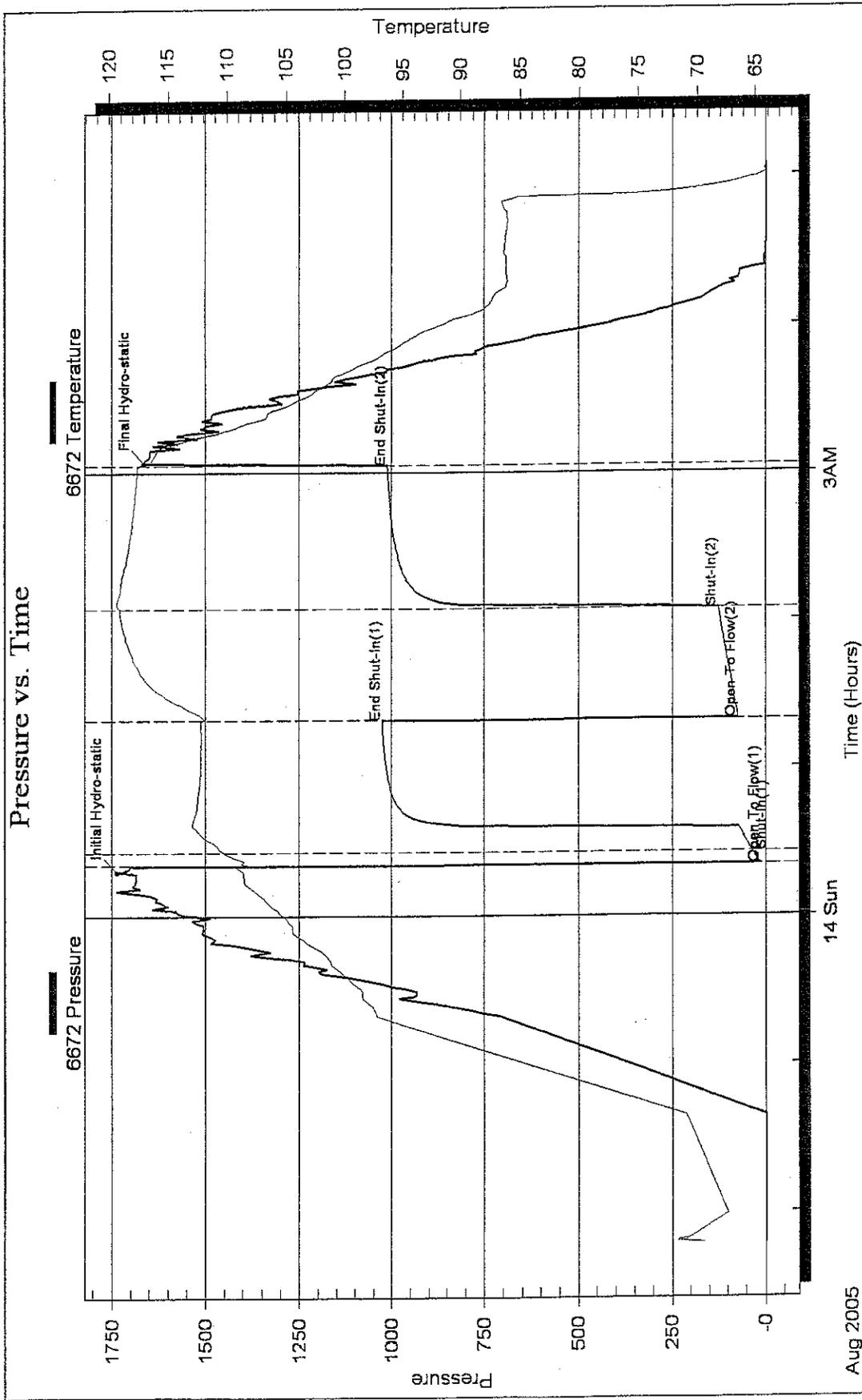
Serial #: 6672

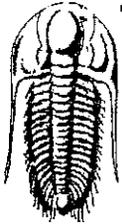
Inside

Murfin Drig Co Inc

3-7-22-Graham-Ks

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drlg Co Inc

Worcester # 2-3

250 N Wtr Ste 300
Wichita Ks 67202

3-7-22-Graham-Ks

Job Ticket: 22046

DST#: 2

ATTN: Scott Robinson

Test Start: 2005.08.14 @ 11:25:57

GENERAL INFORMATION:

Formation: E-F LKC
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:18:42
 Time Test Ended: 16:54:57

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 21

Interval: 3561.00 ft (KB) To 3580.00 ft (KB) (TVD)
 Total Depth: 3580.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2263.00 ft (KB)
 2258.00 ft (CF)
 KB to GR/CF: 5.00 ft

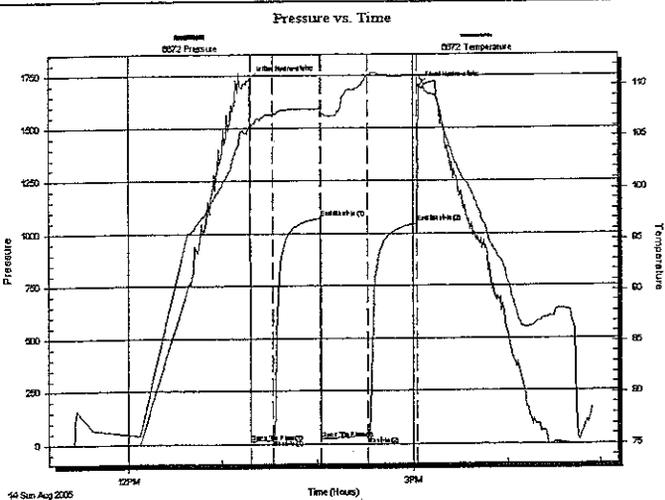
Serial #: 6672

Inside

Press@RunDepth: 38.41 psig @ 3562.00 ft (KB)
 Start Date: 2005.08.14 End Date: 2005.08.14
 Start Time: 11:25:58 End Time: 16:54:57

Capacity: 7000.00 psig
 Last Calib.: 2005.08.14
 Time On Btm: 2005.08.14 @ 13:18:12
 Time Off Btm: 2005.08.14 @ 15:03:27

TEST COMMENT: IF-Weak building to 1/2"
 FF-Weak building to 1/4"
 Times-15-30-30-30



PRESSURE SUMMARY

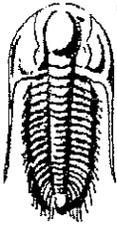
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.47	106.14	Initial Hydro-static
1	10.32	105.62	Open To Flow (1)
15	20.91	107.17	Shut-In(1)
44	1071.14	107.73	End Shut-In(1)
45	25.06	107.45	Open To Flow (2)
74	38.41	110.96	Shut-In(2)
105	1048.18	111.03	End Shut-In(2)
106	1702.49	111.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/ oil spots on top	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Worcester # 2-3

250 N Wtr Ste 300
Wichita Ks 67202

3-7-22-Graham-Ks

Job Ticket: 22046

DST#: 2

ATTN: Scott Robinson

Test Start: 2005.08.14 @ 11:25:57

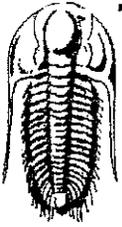
Tool Information

Drill Pipe:	Length: 3417.00 ft	Diameter: 3.80 inches	Volume: 47.93 bbl	Tool Weight: 1700.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3561.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3538.00	
Shut In Tool	5.00			3543.00	
Hydraulic tool	5.00			3548.00	
Safety Joint	3.00			3551.00	
Packer	5.00			3556.00	24.00 Bottom Of Top Packer
Packer	5.00			3561.00	
Stubb	1.00			3562.00	
Recorder	0.00	6672	Inside	3562.00	
Perforations	15.00			3577.00	
Recorder	0.00	13254	Outside	3577.00	
Bullnose	3.00			3580.00	19.00 Bottom Packers & Anchor

Total Tool Length: 43.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Worcester # 2-3

250 N Wtr Ste 300
Wichita Ks 67202

3-7-22-Graham-Ks

Job Ticket: 22046

DST#: 2

ATTN: Scott Robinson

Test Start: 2005.08.14 @ 11:25:57

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 6.79 in³
Resistivity: ohm.m
Salinity: 1400.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w / oil spots on top	0.148

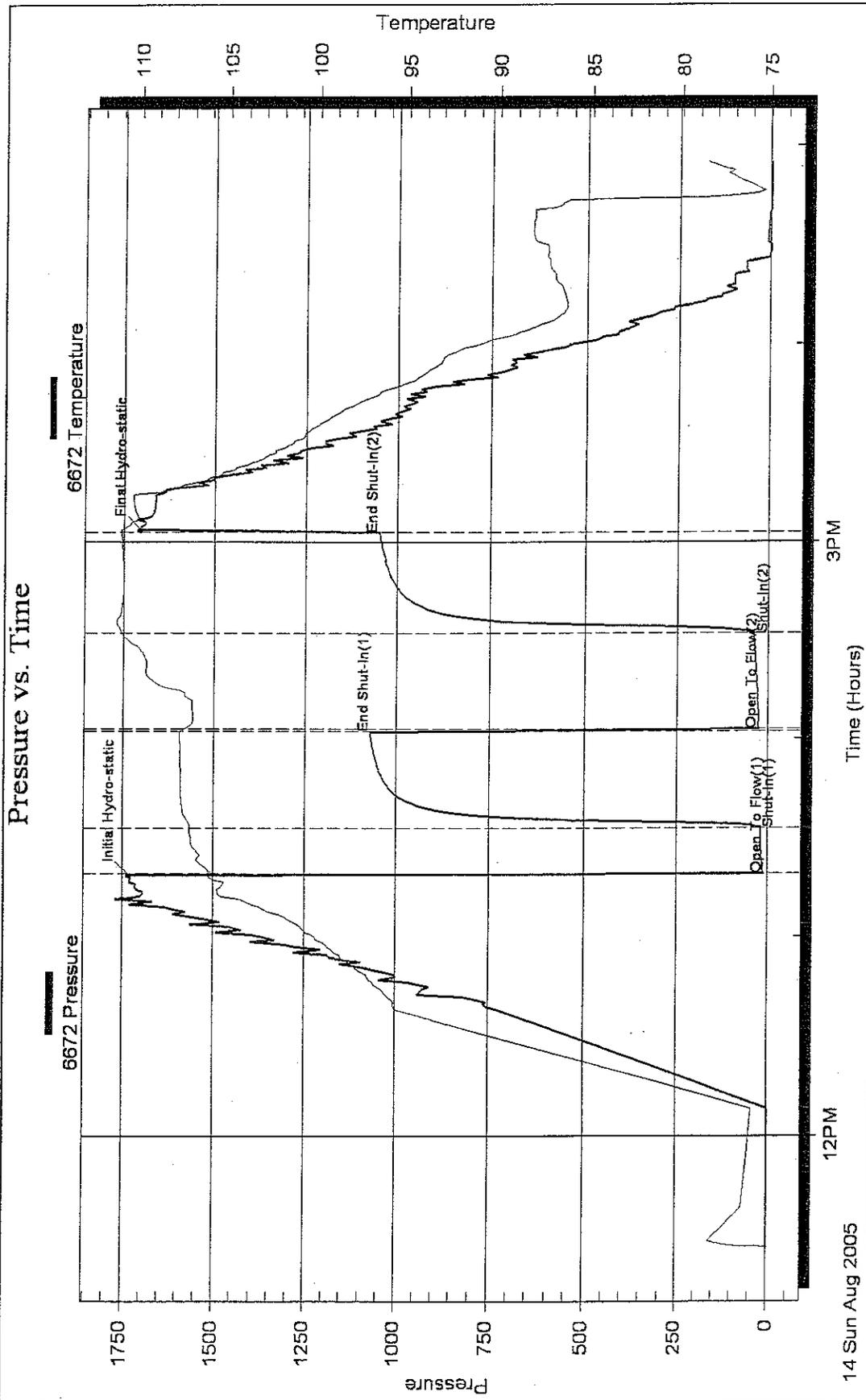
Total Length: 30.00 ft Total Volume: 0.148 bbl

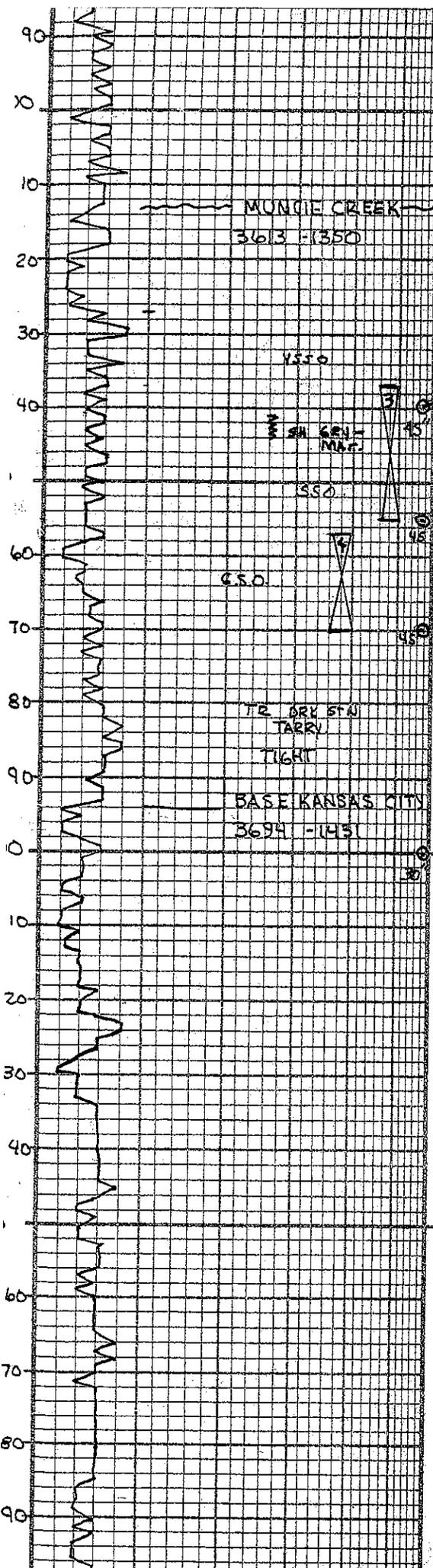
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





SH DRK GRV - GRV - MAR

LS CRM - GRV, FN - YLN - CHKY TIGHT, N.S. TR A

LS CRM - GRV, FN - YLN - DSE, HRD NYG, N.S. CHKY.

SH. BIK, CARB

LS GRV - LT TAN, FN - YLN - DSE

SH BIK - GRV - MAR

LS CRM - GRV, FN - YLN - SLI
FOSS. W/ 4-5 1/2" S/TRY
W/ LT. MED SPTD STN IN PR
FOSS - PP G, 1-pc W/ VSS, EO
NO odor

LS CRM - GRV, FN - YLN, Y-SLI
FOSS: MOSTLY TIGHT N.S.

LS CRM - GRV, FN - YLN, SLI
FOSS: 2-4 p's w/ lt. med
spt'd stn in fr. Vg. FOSS
in SSED. faint odor

SH - GRV - MAR

LS CRM, FN - YLN, FOSS - ORG -
W/ LT DRK STN + FAINT GD SAT
+ F-GD SFO. IN GD PP - FOSS -
SLI ORG & GD odor

SH GRV - MAR - GRV.

LS TAN, FN - YLN - DSE - W/ DRK
STAINING IN PR VUGS, V-FAINT
odor. NEO. - SSED 2 p's.

LS LT TAN - GRV, FN - YLN -
SLI CHKY, N.S.

SH - GRV - RD - MAR.

LS CRM - GRV, FN - YLN.
TIGHT, CHKY, N.S. +
VARICOLORED SHL tr A

LS CRM - LT TAN, FN - YLN.
+ varicolored shale
N.S.

LS CRM - WH, FN - YLN -
TIGHT, CHKY, PR - NUG.
N.S. TR A

SH GRV MAR - GRN.

LS CRM, GRV, FN - YLN -
SLI CHKY, N.S. SHLY

SH GRV - MAR - MUCKY

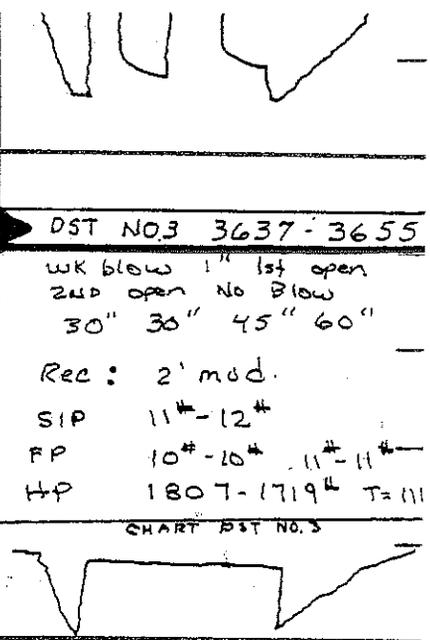
LS CRM - GRV, FN - YLN -
SH SORT - CHKY, PR - NUG
N.S.

LS CRM - LT TAN - GRV,
FN - YLN - SLI GENULAR
SLI FOSS. TR B, N.S.

LS GRV, FN - YLN - SDV, TIGHT
N.S., PINK - ORG SDV CHERT
TIGHT. N.S.

LS CRM - GRV, FN - YLN - SDV
SCATT PNK, N.S. SLI CHKY

SH'S VARICOLORED



DST NO3 3637 - 3655

WK blow 1" 1st open
2nd open No Blow
30" 30" 45" 60"

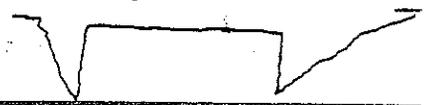
Rec: 2' mod.

SIP 11# - 12#

FP 10# - 10# 11# - 11#

HP 1807 - 1719# T=111

CHART DST NO.3



DST NO4 3657 - 3670

STRONG BLOW OFF BTM 6 min
2nd open off BTM 9 min

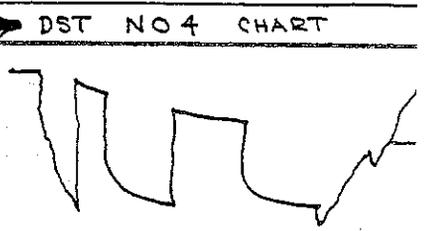
10" 45" 30" 60"

Rec: 55' c.o. 36°
382' sw 60,000 chl

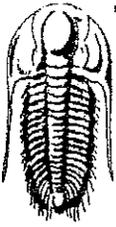
SIP 1154# - 1142#

FP 40-71# 121-241#

HP 1866# - 1744# T=122°



DST NO4 CHART



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drlg Co Inc

250 NWtr Ste 300
Wichita Ks 67202

ATTN: Scott Robinson

Worcester # 2-3

3-7-22-Graham-Ks

Job Ticket: 22048

DST#: 4

Test Start: 2005.08.15 @ 12:50:02

GENERAL INFORMATION:

Formation: J LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:37:02

Time Test Ended: 19:10:02

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3657.00 ft (KB) To 3670.00 ft (KB) (TVD)

Total Depth: 3670.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches-Hole Condition: Good

Reference Elevations: 2263.00 ft (KB)

2258.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 241.71 psig @ 3658.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.08.15

End Date:

2005.08.15

Last Calib.: 2005.08.15

Start Time: 12:50:03

End Time:

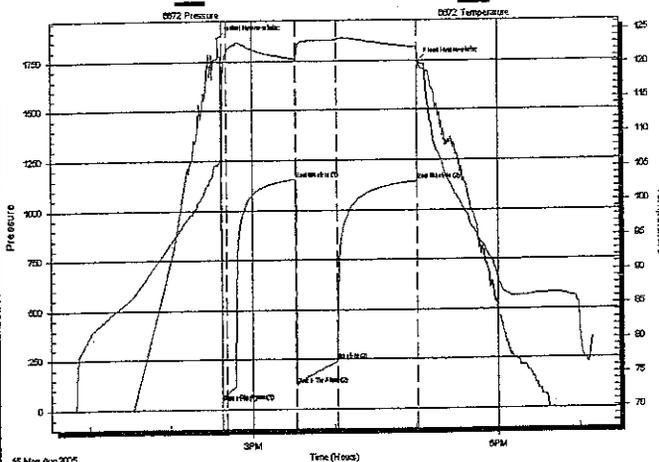
19:10:02

Time On Btr: 2005.08.15 @ 14:34:47

Time Off Btr: 2005.08.15 @ 17:02:02

TEST COMMENT: FF-Strong B-B in 6 min
IS-Weak 1/4" blow back
FF-Strong B-B in 9 min
FSI-Weak building to 1"

Pressure vs. Time



PRESSURE SUMMARY

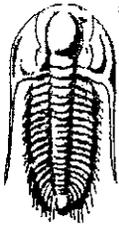
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.75	105.31	Initial Hydro-static
3	40.06	106.19	Open To Flow (1)
6	77.12	121.86	Shut-In(1)
57	1154.44	120.67	End Shut-In(1)
58	121.86	120.41	Open To Flow (2)
88	241.71	123.51	Shut-In(2)
147	1142.12	122.40	End Shut-In(2)
148	1744.04	120.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
382.00	Wtr Rw .15 @ 60 = 60000 ppm	4.23
55.00	CO	0.77
0.00	236 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Worcester # 2-3

250 N Wtr Ste 300
Wichita Ks 67202

3-7-22-Graham-Ks

Job Ticket: 22048

DST#: 4

ATTN: Scott Robinson

Test Start: 2005.08.15 @ 12:50:02

Tool Information

Drill Pipe:	Length: 3540.00 ft	Diameter: 3.80 inches	Volume: 49.66 bbl	Tool Weight: 1600.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3657.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3634.00	
Shut In Tool	5.00			3639.00	
Hydraulic tool	5.00			3644.00	
Safety Joint	3.00			3647.00	
Packer	5.00			3652.00	24.00 Bottom Of Top Packer
Packer	5.00			3657.00	
Stubb	1.00			3658.00	
Recorder	0.00	6672	Inside	3658.00	
Perforations	9.00			3667.00	
Recorder	0.00	13254	Outside	3667.00	
Bullnose	3.00			3670.00	13.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Worcester # 2-3

250 NWtr Ste 300
Wichita Ks 67202

3-7-22-Graham-Ks

Job Ticket: 22048

DST#: 4

ATTN: Scott Robinson

Test Start: 2005.08.15 @ 12:50:02

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 1400.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
382.00	Wtr Rw .15 @ 60 = 60000 ppm	4.229
55.00	CO	0.772
0.00	236 GIP	0.000

Total Length: 437.00 ft Total Volume: 5.001 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

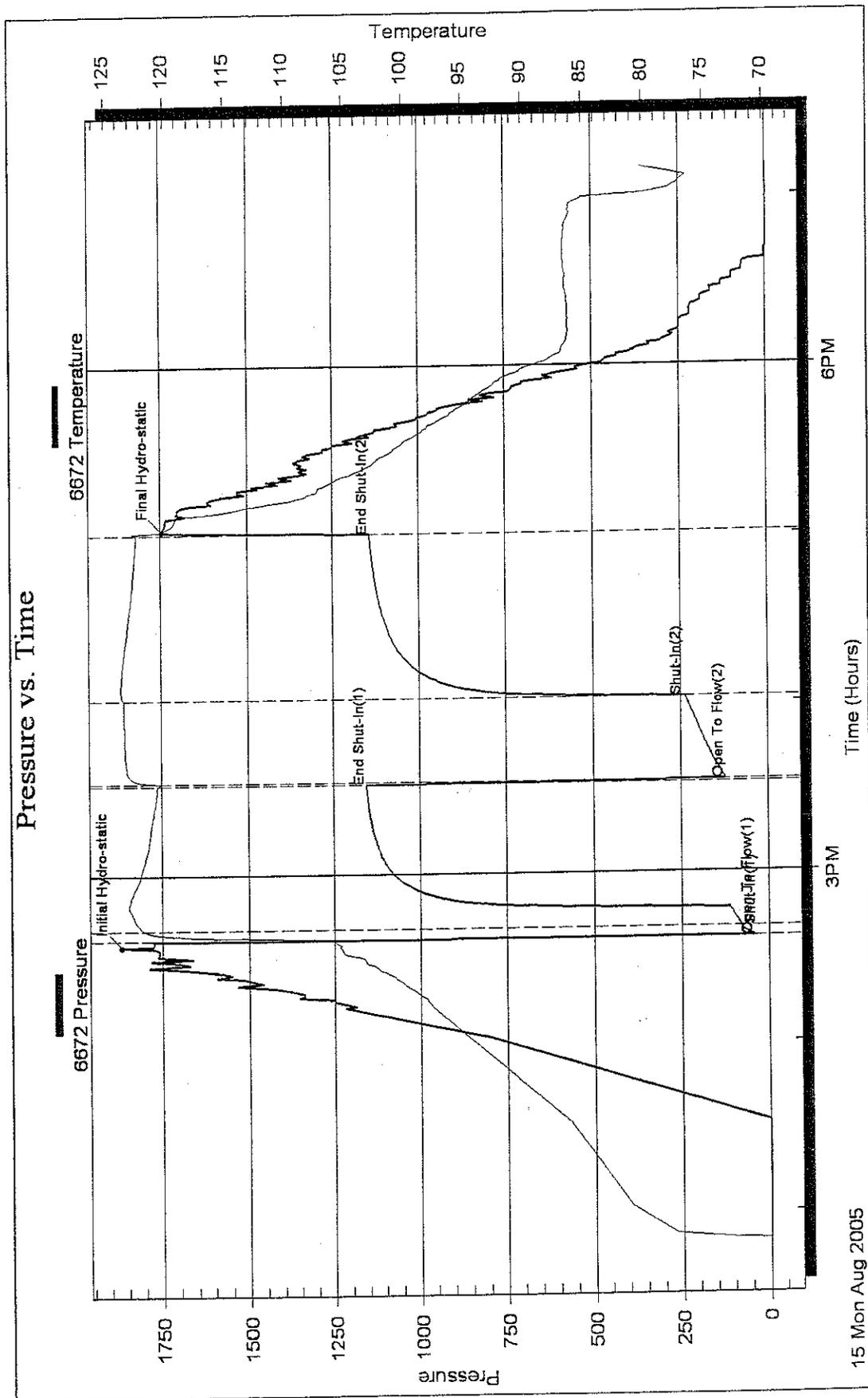
Serial #:

Laboratory Name:

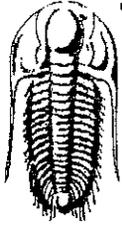
Laboratory Location:

Recovery Comments:

Pressure vs. Time



15 Mon Aug 2005



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drig Co Inc

250 N Wtr Ste 300
Wichita Ks 67202

ATTN: Scott Robinson

Worcester # 2-3

3-7-22-Graham-Ks

Job Ticket: 22049

DST#: 5

Test Start: 2005.08.16 @ 14:18:53

GENERAL INFORMATION:

Formation: D LKC
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:52:08
Time Test Ended: 20:52:38

Test Type: Conventional Straddle
Tester: Dan Bangle
Unit No: 21

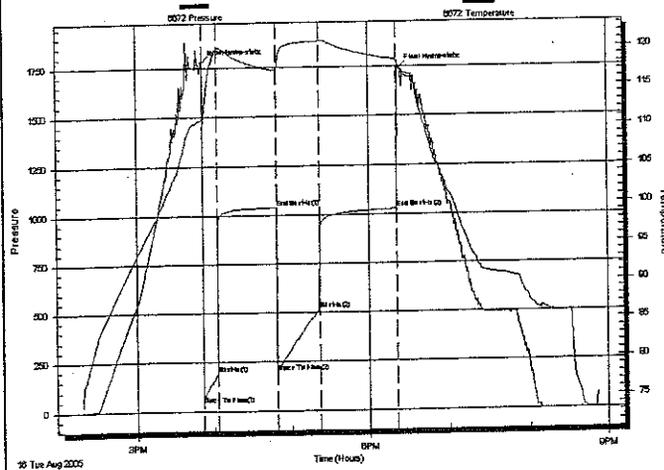
Interval: 3544.00 ft (KB) To 3560.00 ft (KB) (TVD)
Total Depth: 3877.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2263.00 ft (KB)
2258.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6672 Inside
Press@RunDepth: 512.38 psig @ 3545.00 ft (KB)
Start Date: 2005.08.16 End Date: 2005.08.16
Start Time: 14:18:54 End Time: 20:52:38
Capacity: 7000.00 psig
Last Calib.: 2005.08.16
Time On Btm: 2005.08.16 @ 15:51:53
Time Off Btm: 2005.08.16 @ 18:22:38

TEST COMMENT: IF-Strong B-B in 4 min
FF-Strong B-B in 6 min
Times-10-45-30-60

Pressure vs. Time



PRESSURE SUMMARY

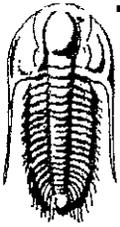
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1775.97	110.95	Initial Hydro-static
1	33.67	110.02	Open To Flow (1)
11	190.74	119.90	Shut-In(1)
57	1039.45	117.08	End Shut-In(1)
58	196.83	116.90	Open To Flow (2)
91	512.38	120.83	Shut-In(2)
150	1027.60	118.44	End Shut-In(2)
151	1741.09	117.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1485.00	Wtr Rw .09 @ 80 = 80000ppm	19.70

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg Co Inc

250 N Wtr Ste 300
Wichita Ks 67202

ATTN: Scott Robinson

Worcester # 2-3

3-7-22-Graham-Ks

Job Ticket: 22049

DST#: 5

Test Start: 2005.08.16 @ 14:18:53

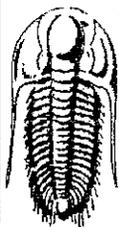
Tool Information

Drill Pipe:	Length: 3729.00 ft	Diameter: 3.80 inches	Volume: 52.31 bbl	Tool Weight: 2300.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 52.92 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	333.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3544.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	3560.00 ft			
Interval between Packers:	16.00 ft			
Tool Length:	357.00 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			3521.00	
Shut In Tool	5.00			3526.00	
Hydraulic tool	5.00			3531.00	
Safety Joint	3.00			3534.00	
Packer	5.00			3539.00	24.00 Bottom Of Top Packer
Packer	5.00			3544.00	
Stubb	1.00			3545.00	
Recorder	0.00	6672	Inside	3545.00	
Perforations	11.00			3556.00	
Blank Off Sub	1.00			3557.00	
Blank Spacing	3.00			3560.00	16.00 Tool Interval
Packer	2.00			3562.00	
Stubb	1.00			3563.00	
Perforations	1.00			3564.00	
Change Over Sub	1.00			3565.00	
Recorder	0.00	13254	Outside	3565.00	
Drill Pipe	308.00			3873.00	
Change Over Sub	1.00			3874.00	
Bullnose	3.00			3877.00	317.00 Bottom Packers & Anchor

Total Tool Length: 357.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Worcester # 2-3

250 N Wtr Ste 300
Wichita Ks 67202

3-7-22-Graham-Ks

Job Ticket: 22049

DST#: 5

ATTN: Scott Robinson

Test Start: 2005.08.16 @ 14:18:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

80000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1485.00	Wtr Rw .09 @ 80 = 80000ppm	19.701

Total Length: 1485.00 ft Total Volume: 19.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6672

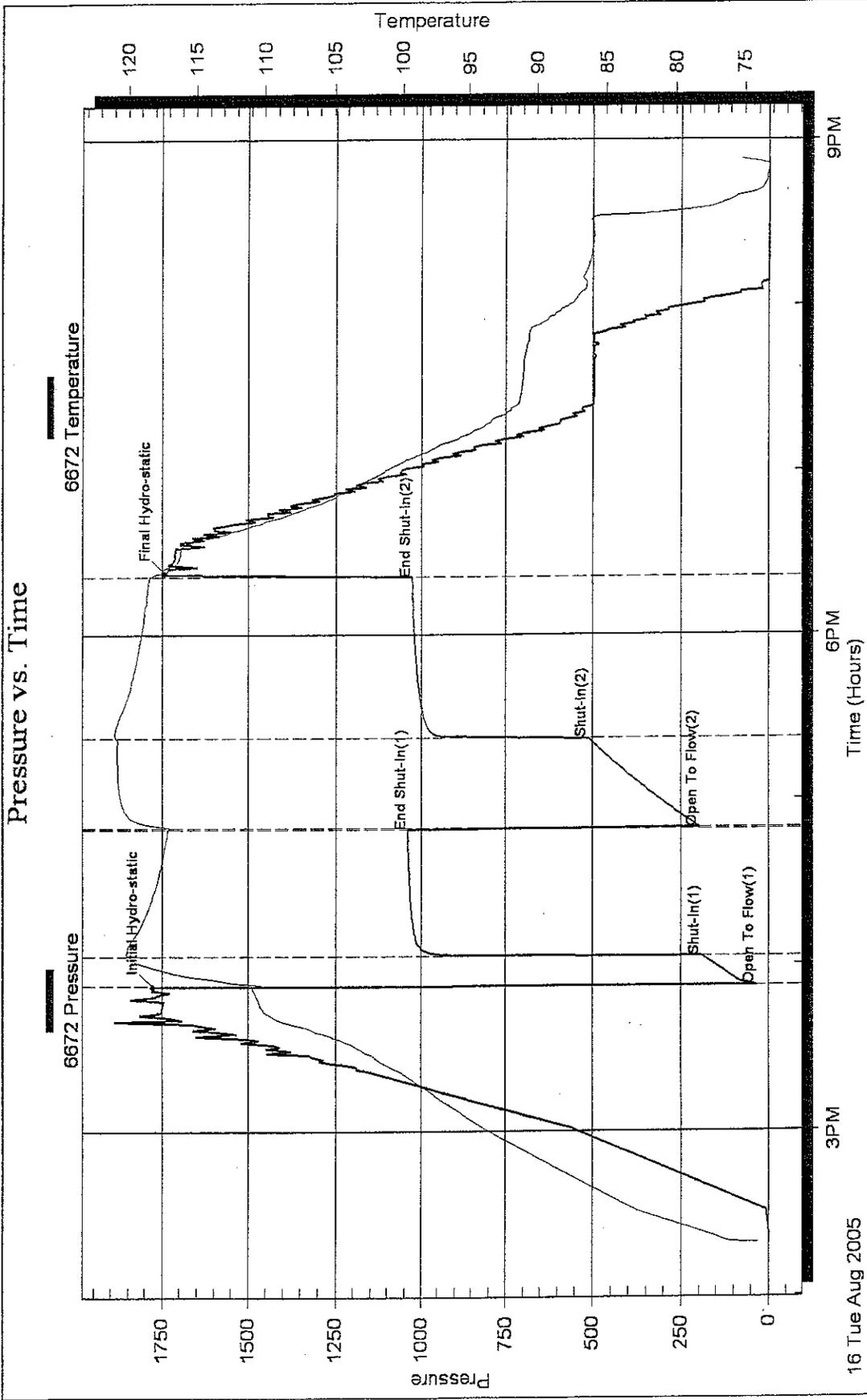
Inside

Murfin Drig Co Inc

3-7-22-Graham-Ks

DST Test Number: 5

Pressure vs. Time



16 Tue Aug 2005

3PM

6PM

9PM