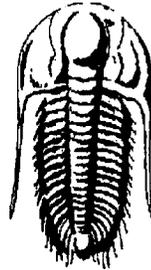


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26-5s-29w

CONFIDENTIAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

26 5 29 Decatur KS

Mumm Brothers 1-26

Start Date: 2007.08.17 @ 09:52:27

End Date: 2007.08.17 @ 17:49:02

Job Ticket #: 29401 DST #: 1

**CONFIDENTIAL
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DEC 13 2007

**CONSERVATION DIVISION
WICHITA, KS**

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

Murfin Drilling Co Inc

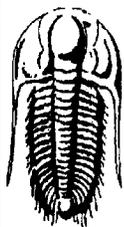
Mumm Brothers 1-26

26 5 29 Decatur KS

DST # 1

Tor, Lan A&B

2007.08.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

230 N Water Ste 300
Chita KS 67202

ATTN: Paul Gunzelman

Mumm Brothers 1-26

26 5 29 Decatur KS

Job Ticket: 29401

DST#: 1

Test Start: 2007.08.17 @ 09:52:27

GENERAL INFORMATION:

Formation: **Tor., Lan A&B**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 11:42:47
 Time Test Ended: 17:49:02

Test Type: Conventional Bottom Hole
 Tester: Brandon Domsch
 Unit No: 25

Interval: **3874.00 ft (KB) To 3950.00 ft (KB) (TVD)**
 Total Depth: 3950.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2797.00 ft (KB)
 2792.00 ft (CF)
 KB to GR/CF: 5.00 ft

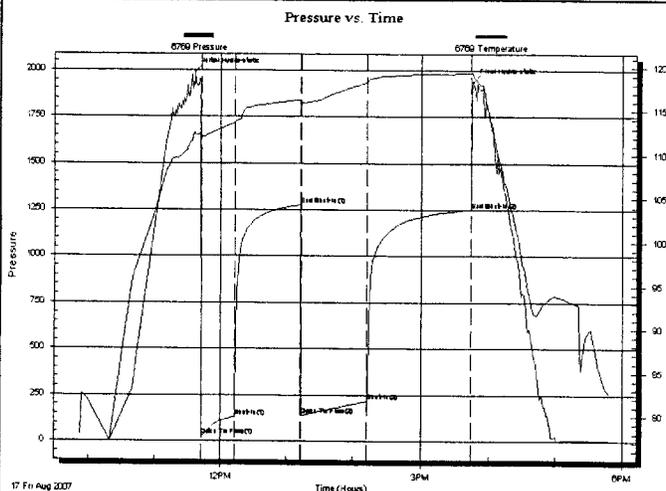
Serial #: 6769

Inside

Press@RunDepth: 215.74 psig @ 3881.00 ft (KB)
 Start Date: 2007.08.17 End Date: 2007.08.17
 Start Time: 09:52:27 End Time: 17:49:02

Capacity: 7000.00 psig
 Last Calib.: 2007.08.17
 Time On Btm: 2007.08.17 @ 11:37:02
 Time Off Btm: 2007.08.17 @ 15:46:02

TEST COMMENT: IF BOB in 22 mins.
 IS No return
 FF BOB in 31 mins.
 FS Very weak surface blow for 11 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.46	112.50	Initial Hydro-static
6	23.54	112.06	Open To Flow (1)
36	130.73	113.59	Shut-In(1)
96	1276.43	116.27	End Shut-In(1)
97	137.56	115.93	Open To Flow(2)
156	215.74	118.27	Shut-In(2)
247	1252.30	119.28	End Shut-In(2)
250	1936.33	119.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 80%W 20%M	0.89
60.00	HMCW 60%W 40%M	0.80
180.00	Oil spotted WCM 20%W 80%M	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Mumm Brothers 1-26

250 N Water Ste 300
Wichita KS 67202

26 5 29 Decatur KS

Job Ticket: 29401

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2007.08.17 @ 09:52:27

Tool Information

Drill Pipe:	Length: 3674.00 ft	Diameter: 3.80 inches	Volume: 51.54 bbl	Tool Weight: 1500.00 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 52.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3874.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	99.00 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			3852.00	
Shut In Tool	5.00			3857.00	
Hydraulic tool	5.00			3862.00	
Safety Joint	3.00			3865.00	
Packer	5.00			3870.00	23.00 Bottom Of Top Packer
Packer	4.00			3874.00	
Stubb	1.00			3875.00	
Perforations	5.00			3880.00	
Change Over Sub	1.00			3881.00	
Recorder	0.00	6769	Inside	3881.00	
Drill Pipe	63.00			3944.00	
Change Over Sub	1.00			3945.00	
Recorder	0.00	2607	Inside	3945.00	
Bullnose	5.00			3950.00	76.00 Bottom Packers & Anchor
Total Tool Length:	99.00				

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WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Mumm Brothers 1-26

250 N Water Ste 300
Wichita KS 67202

26 5 29 Decatur KS

ATTN: Paul Gunzelman

Job Ticket: 29401

DST#: 1

Test Start: 2007.08.17 @ 09:52:27

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:

70000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	MCW 80%W 20%M	0.885
60.00	HMCW 60%W 40%M	0.796
180.00	Oil spotted WCM 20%W 80%M	2.525

Total Length: 420.00 ft

Total Volume: 4.206 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6769

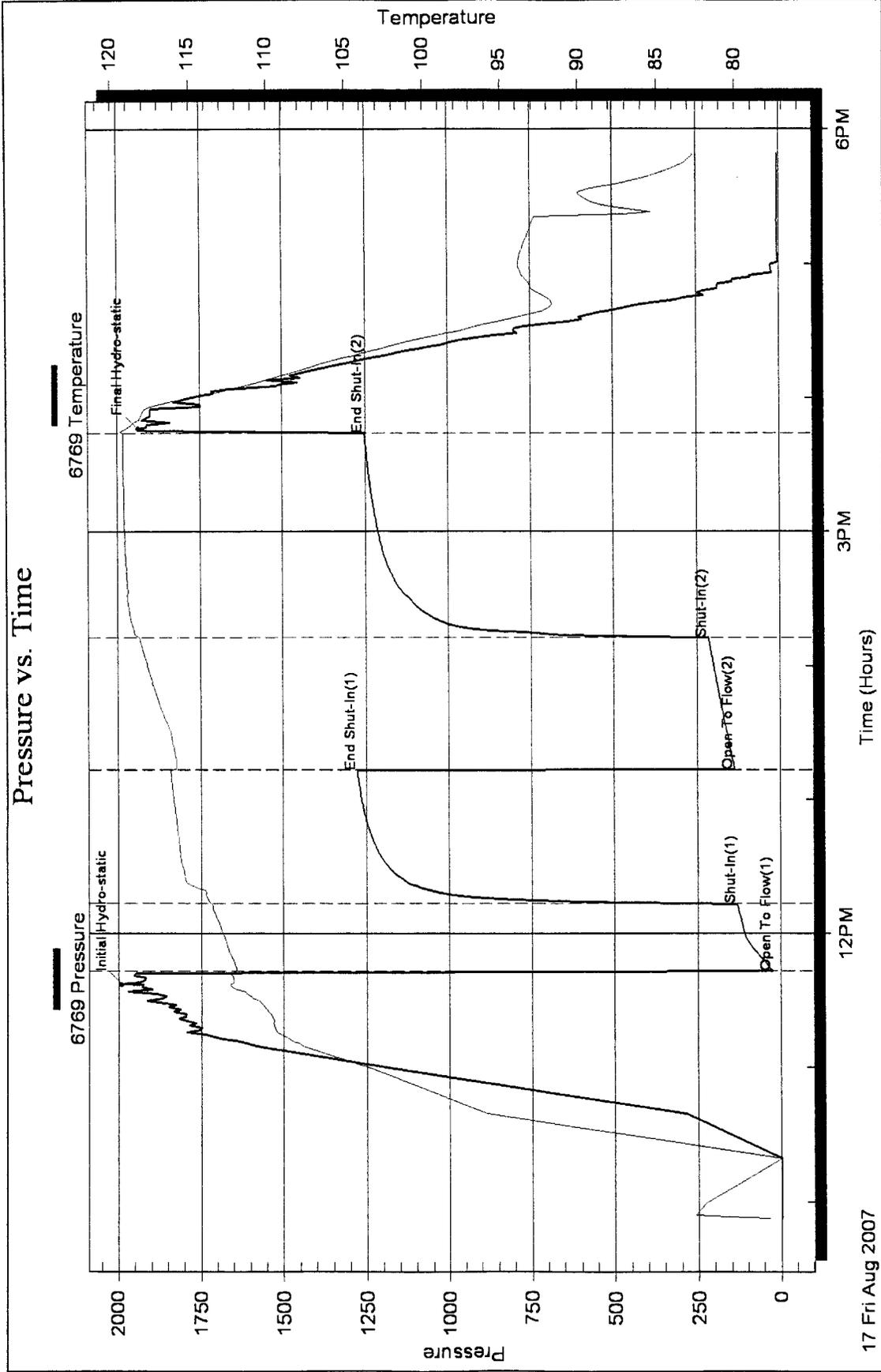
Inside

Murfin Drilling Co Inc

26 5 29 Decatur KS

DST Test Number: 1

Pressure vs. Time



17 Fri Aug 2007

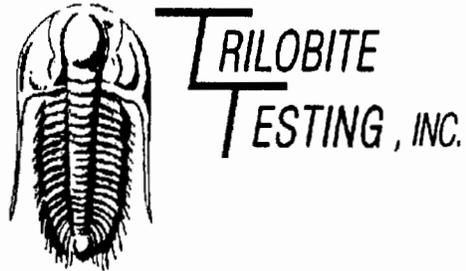
Trilobite Testing, Inc

Ref. No: 29401

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WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

26 5 29 Decatur KS

Mumm Brothers 1-26

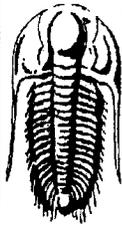
Start Date: 2007.08.18 @ 00:16:57

End Date: 2007.08.18 @ 09:59:31

Job Ticket #: 29402 DST #: 2

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

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WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Mumm Brothers 1-26

26 5 29 Decatur KS

Job Ticket: 29402

DST#: 2

Test Start: 2007.08.18 @ 00:16:57

GENERAL INFORMATION:

Formation: **Lans. D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:12:47

Time Test Ended: 09:59:31

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 25

Interval: **3956.00 ft (KB) To 3973.00 ft (KB) (TVD)**

Total Depth: 3973.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2797.00 ft (KB)

2792.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 422.17 psig @ 3962.00 ft (KB)

Start Date: 2007.08.18

End Date: 2007.08.18

Start Time: 00:16:57

End Time: 09:59:31

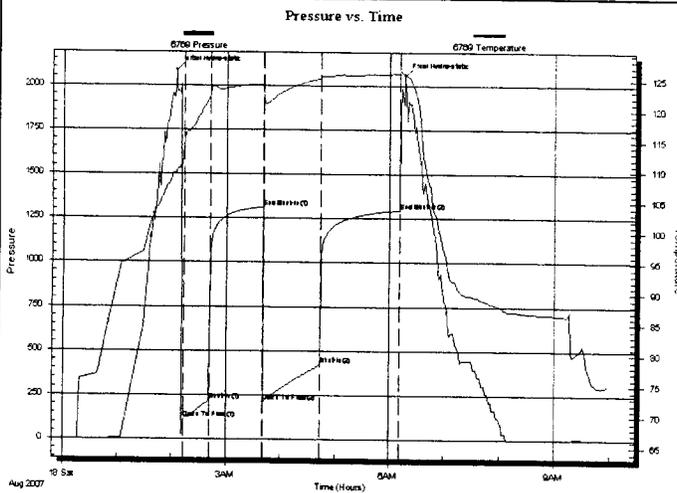
Capacity: 7000.00 psig

Last Calib.: 2007.08.18

Time On Btm: 2007.08.18 @ 02:04:32

Time Off Btm: 2007.08.18 @ 06:16:32

TEST COMMENT: IF BOB in 5 mins.
IS Built to 1 3/4 inch died back to 1 1/4 inch.
FF BOB in 8 mins.
FS Built to 5 inches died back to 2 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.02	109.67	Initial Hydro-static
9	114.63	113.96	Open To Flow (1)
37	216.76	121.89	Shut-In(1)
96	1312.28	124.14	End Shut-In(1)
97	213.44	122.08	Open To Flow (2)
160	422.17	125.16	Shut-In(2)
247	1293.97	125.92	End Shut-In(2)
252	2052.94	125.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	W 100%W	0.89
60.00	WC Heavy O 10%W 90%O	0.80
360.00	MCW 85%W 15%M	5.05
180.00	O&MCW 10%O 60%W 30%M	2.52
100.00	Slightly M&GCO 10%G 87%O 3%M	1.40

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Mumm Brothers 1-26

250 N Water Ste 300
Wichita KS 67202

26 5 29 Decatur KS

ATTN: Paul Gunzelman

Job Ticket: 29402

DST#: 2

Test Start: 2007.08.18 @ 00:16:57

Tool Information

Drill Pipe:	Length: 3768.00 ft	Diameter: 3.80 inches	Volume: 52.86 bbl	Tool Weight: 1500.00 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	53.77 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3956.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3934.00	
Shut In Tool	5.00			3939.00	
Hydraulic tool	5.00			3944.00	
Safety Joint	3.00			3947.00	
Packer	5.00			3952.00	23.00 Bottom Of Top Packer
Packer	4.00			3956.00	
Stubb	1.00			3957.00	
Perforations	5.00			3962.00	
Recorder	0.00	6769	Inside	3962.00	
Perforations	6.00			3968.00	
Recorder	0.00	2607	Inside	3968.00	
Bullnose	5.00			3973.00	17.00 Bottom Packers & Anchor

Total Tool Length: 40.00

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WICHITA, KS



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Mumm Brothers 1-26

250 N Water Ste 300
Wichita KS 67202

26 5 29 Decatur KS

Job Ticket: 29402

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2007.08.18 @ 00:16:57

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 80000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.77 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 700.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	W 100%W	0.885
60.00	WC Heavy O 10%W 90%O	0.796
360.00	MCW 85%W 15%M	5.050
180.00	O&MCW 10%O 60%W 30%M	2.525
100.00	Slighty M&GCO 10%G 87%O 3%M	1.403

Total Length: 880.00 ft Total Volume: 10.659 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6769

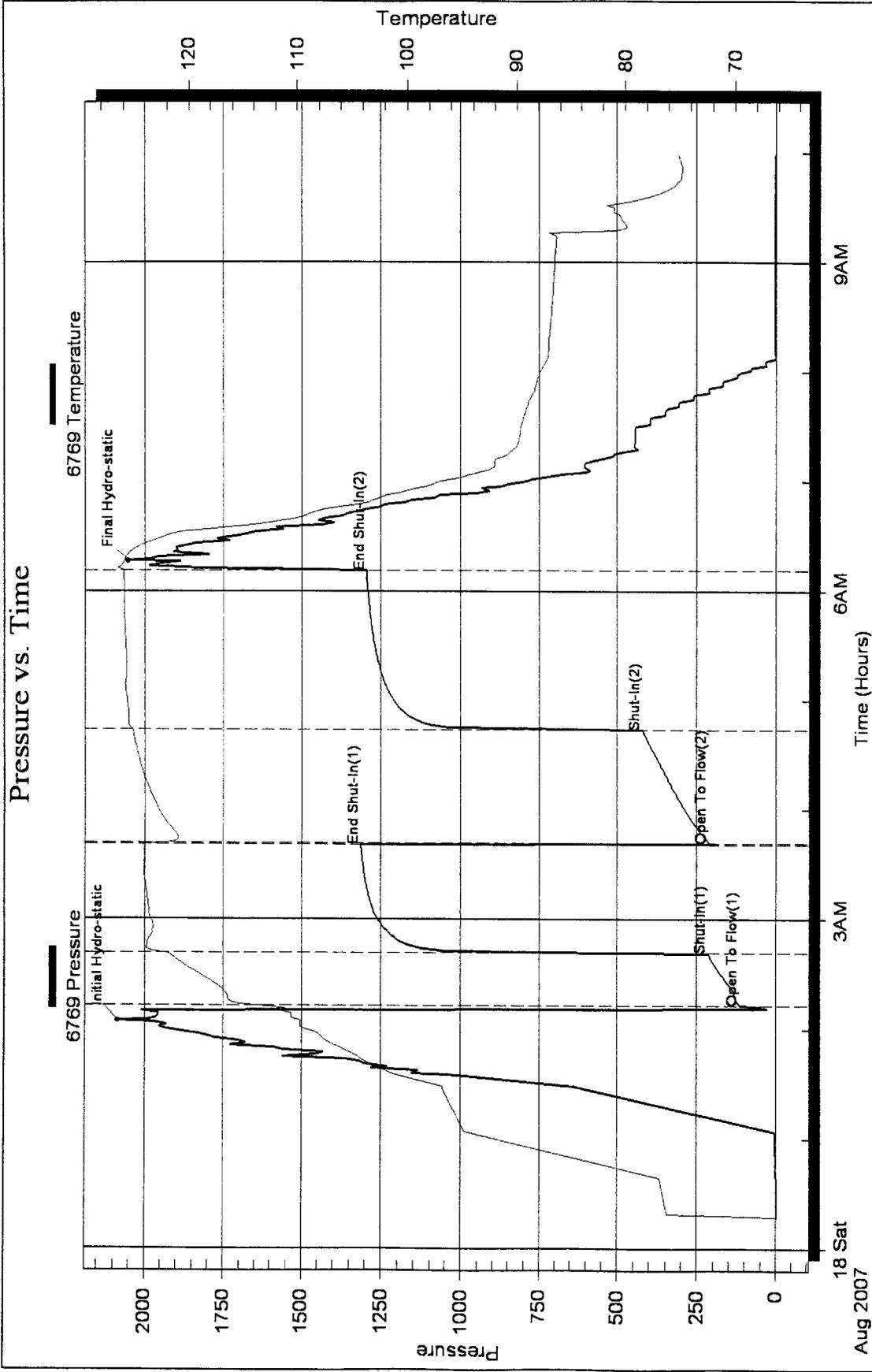
Inside

Murfin Drilling Co Inc

26 5 29 Decatur KS

DST Test Number: 2

Pressure vs. Time



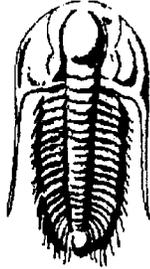
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WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

26 5 29 Decatur KS

Mumm Brothers 1-26

Start Date: 2007.08.19 @ 00:07:00

End Date: 2007.08.19 @ 09:54:19

Job Ticket #: 29403 DST #: 3

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Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Mumm Brothers 1-26

26 5 29 Decatur KS

Job Ticket: 29403

DST#: 3

Test Start: 2007.08.19 @ 00:07:00

GENERAL INFORMATION:

Formation: **KC "J&K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:41:35

Time Test Ended: 09:54:19

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 25

Interval: **4040.00 ft (KB) To 4102.00 ft (KB) (TVD)**

Total Depth: 4102.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2797.00 ft (KB)

2792.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769 Inside

Press@RunDepth: 421.36 psig @ 4066.00 ft (KB)

Start Date: 2007.08.19

End Date: 2007.08.19

Start Time: 00:07:00

End Time: 09:54:19

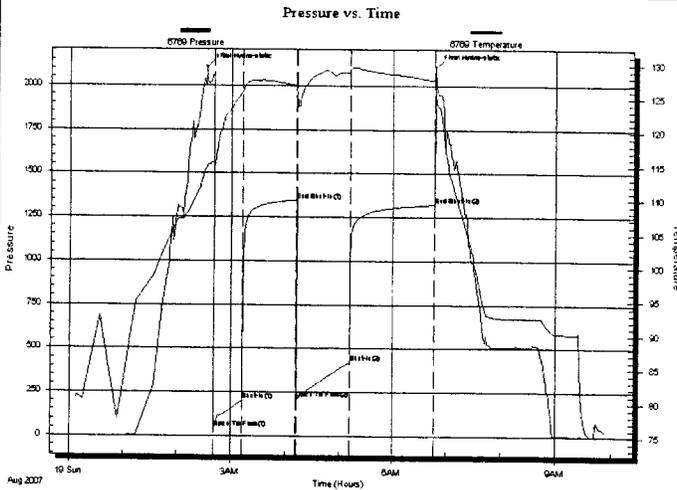
Capacity: 7000.00 psig

Last Calib.: 2007.08.19

Time On Btm: 2007.08.19 @ 02:32:50

Time Off Btm: 2007.08.19 @ 06:47:50

TEST COMMENT: IF BOB in 6 mins.
IS BOB in 17 mins.
FF BOB in 7 mins.
FS BOB in 21 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.46	114.81	Initial Hydro-static
9	41.96	114.79	Open To Flow (1)
40	202.86	125.83	Shut-In(1)
100	1346.30	126.83	End Shut-In(1)
101	210.79	125.23	Open To Flow (2)
159	421.36	128.89	Shut-In(2)
254	1320.60	127.64	End Shut-In(2)
256	2104.03	125.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 25%O 75%M	0.15
240.00	MCO 85%O 15%M	1.95
750.00	GCO 20%G 80%O	10.52
0.00	GIP 1270 FT	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Mumm Brothers 1-26

250 N Water Ste 300
Wichita KS 67202

26 5 29 Decatur KS

Job Ticket: 29403

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2007.08.19 @ 00:07:00

Tool Information

Drill Pipe:	Length: 3863.00 ft	Diameter: 3.80 inches	Volume: 54.19 bbl	Tool Weight: 1500.00 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 55.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4040.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4018.00	
Shut In Tool	5.00			4023.00	
Hydraulic tool	5.00			4028.00	
Safety Joint	3.00			4031.00	
Packer	5.00			4036.00	23.00 Bottom Of Top Packer
Packer	4.00			4040.00	
Stubb	1.00			4041.00	
Perforations	24.00			4065.00	
Change Over Sub	1.00			4066.00	
Recorder	0.00	6769	Inside	4066.00	
Drill Pipe	30.00			4096.00	
Change Over Sub	1.00			4097.00	
Recorder	0.00	2607	Inside	4097.00	
Bullnose	5.00			4102.00	62.00 Bottom Packers & Anchor

Total Tool Length: 85.00

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WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Mumm Brothers 1-26

250 N Water Ste 300
Wichita KS 67202

26 5 29 Decatur KS

Job Ticket: 29403

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2007.08.19 @ 00:07:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1400.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 25%O 75%M	0.148
240.00	MCO 85%O 15%M	1.955
750.00	GCO 20%G 80%O	10.521
0.00	GIP 1270 FT	0.000

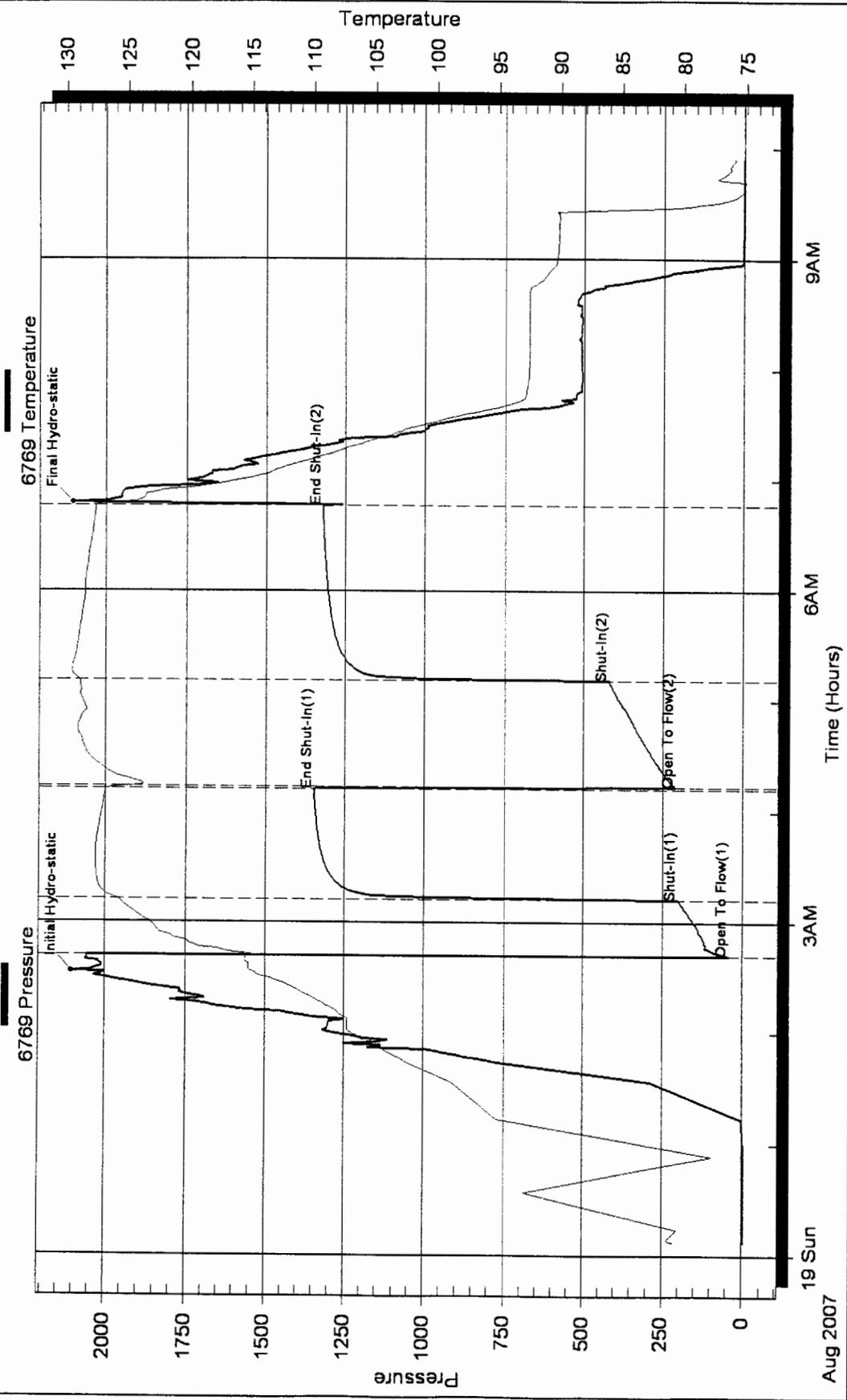
Total Length: 1020.00 ft Total Volume: 12.624 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



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