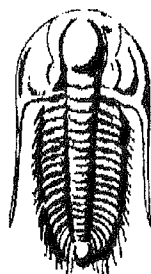


15-039-21021

28-5s-29w

IND



**TRILOBITE
TESTING, INC.**

CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

28 5 29 Decatur KS

Alberta #1-28

Start Date: 2007.09.22 @ 20:10:23

End Date: 2007.09.23 @ 04:46:23

Job Ticket #: 29227 DST #: 1

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KANSAS CORPORATION COMMISSION

JAN 15 2008

CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Company

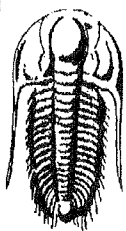
Alberta #1-28

28 5 29 Decatur KS

DST # 1

Lansing "A-C"

2007.09.22



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Alberta #1-28

28 5 29 Decatur KS

Job Ticket: 29227

DST#: 1

Test Start: 2007.09.22 @ 20:10:23

GENERAL INFORMATION:

Formation: **Lansing "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:39:53

Time Test Ended: 04:46:23

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3757.00 ft (KB) To 3840.00 ft (KB) (TVD)**

Total Depth: 3840.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2711.00 ft (KB)

2706.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press@RunDepth: 179.84 psig @ 3758.00 ft (KB)

Start Date: 2007.09.22

End Date:

2007.09.23

Start Time: 20:10:25

End Time:

04:46:23

Capacity: 7000.00 psig

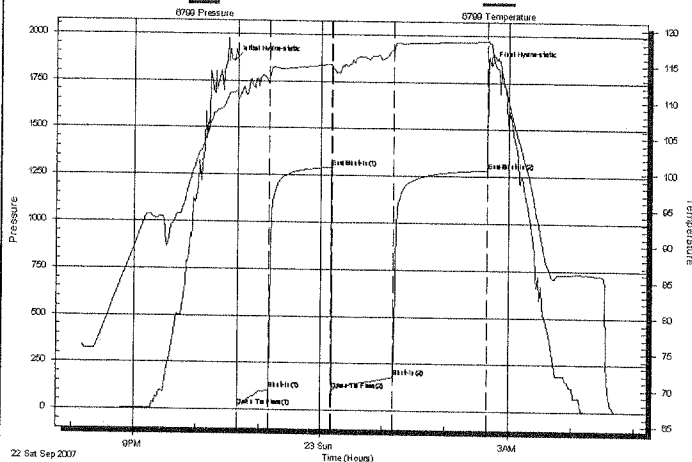
Last Calib.: 2007.09.23

Time On Btm: 2007.09.22 @ 22:36:43

Time Off Btm: 2007.09.23 @ 02:43:32

TEST COMMENT: IF Fair blow built to 10.5" in bucket
ISI Bled off no blow back
FF Fair blow built to BOB in 38 minutes.
FSI Bled off no blow back

Pressure vs. Time



PRESSURE SUMMARY

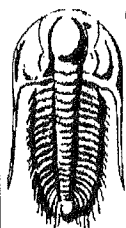
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.48	111.12	Initial Hydro-static
4	16.90	110.61	Open To Flow (1)
34	107.27	113.23	Shut-In(1)
93	1292.87	115.08	End Shut-In(1)
94	108.40	114.74	Open To Flow (2)
154	179.84	117.12	Shut-In(2)
244	1283.61	118.35	End Shut-In(2)
247	1845.01	118.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SOCWM 4%O 46%W 50%M	0.32
65.00	OWCM 10%O 22%W 68%M	0.32
245.00	SGCOM 5%G 40%O 55%M	2.94
0.00	No GIP CHL=48,000 ppm	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

Murfin Drilling Company

Alberta #1-28

250 N Water Ste 300
Wichita KS 67202

28 5 29 Decatur KS

Job Ticket: 29227

DST#: 1

ATTN: Terry McLeod

Test Start: 2007.09.22 @ 20:10:23

Tool Information

Drill Pipe:	Length: 3580.00 ft	Diameter: 3.80 inches	Volume: 50.22 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	51.13 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3757.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	106.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3739.00	
Hydraulic tool	5.00			3744.00	
Safety Joint	3.00			3747.00	
Packer	5.00			3752.00	23.00 Bottom Of Top Packer
Packer	5.00			3757.00	
Stubb	1.00			3758.00	
Recorder	0.00	6799	Inside	3758.00	
Perforations	15.00			3773.00	
Recorder	0.00	10270	Outside	3773.00	
Blank Spacing	64.00			3837.00	
Bullnose	3.00			3840.00	83.00 Bottom Packers & Anchor

Total Tool Length: 106.00

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CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Alberta #1-28

250 N Water Ste 300
Wichita KS 67202

28 5 29 Decatur KS

Job Ticket: 29227

DST#: 1

ATTN: Terry McLeod

Test Start: 2007.09.22 @ 20:10:23

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: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	SOCWM 4%O 46%W 50%M	0.320
65.00	OWCM 10%O 22%W 68%M	0.320
245.00	SGCOM 5%G 40%O 55%M	2.936
0.00	No GIP CHL=48,000 ppm	0.000

Total Length: 375.00 ft

Total Volume: 3.576 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

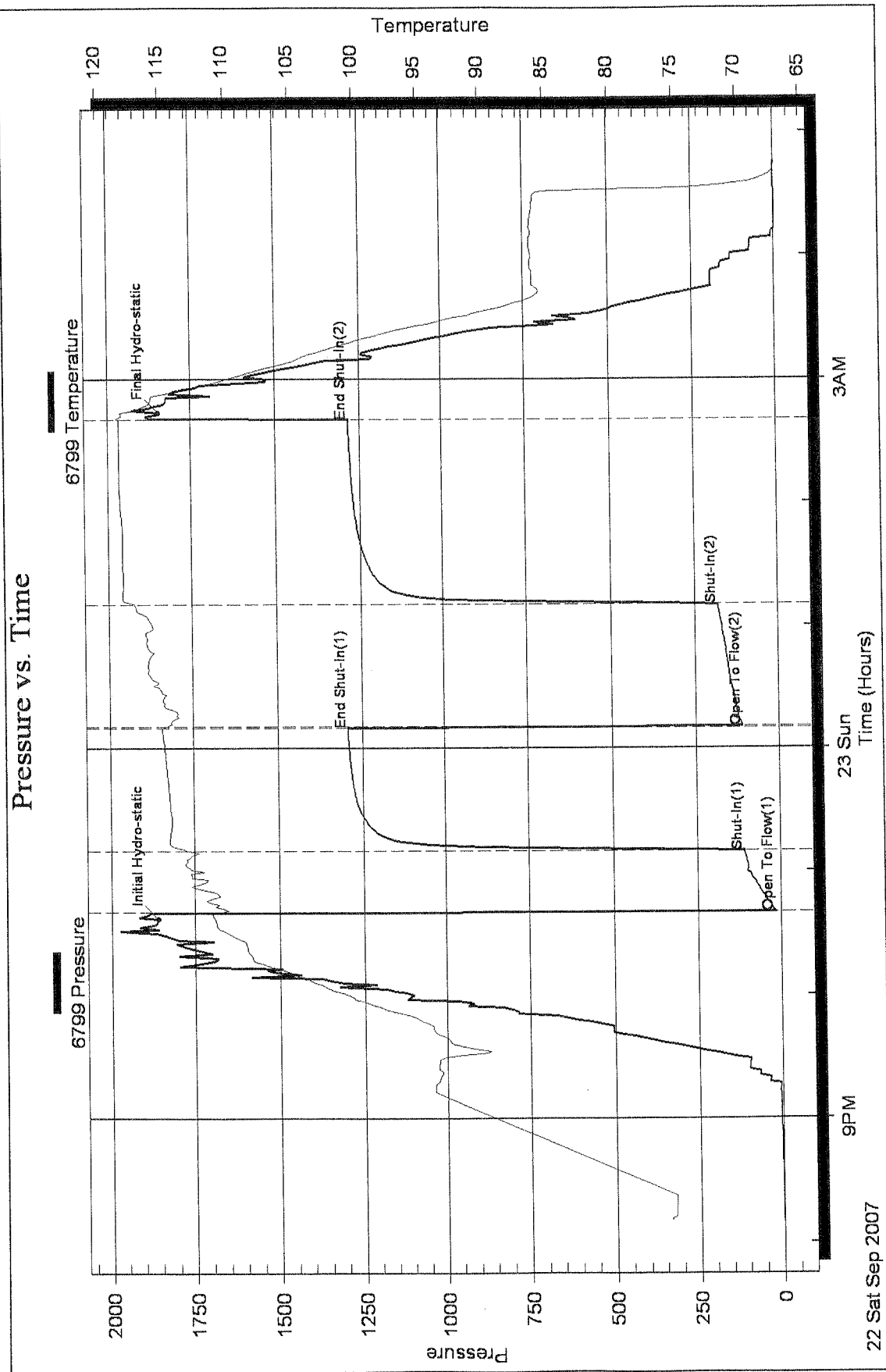
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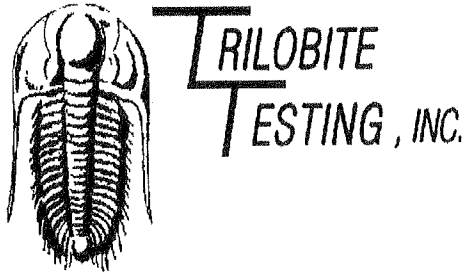
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

28 5 29 Decatur KS

Alberta #1-28

Start Date: 2007.09.23 @ 13:06:54

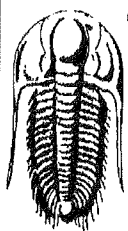
End Date: 2007.09.23 @ 22:47:04

Job Ticket #: 29228 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

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Alberta #1-28

28 5 29 Decatur KS

Job Ticket: 29228

DST#: 2

Test Start: 2007.09.23 @ 13:06:54

GENERAL INFORMATION:

Formation: **Lansing "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:26:54

Time Test Ended: 22:47:04

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 3863.00 ft (KB) To 3910.00 ft (KB) (TVD)

Total Depth: 3910.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2711.00 ft (KB)

2706.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press@RunDepth: 685.19 psig @ 3864.00 ft (KB)

Start Date: 2007.09.23

End Date:

2007.09.23

Start Time: 13:06:56

End Time:

22:47:04

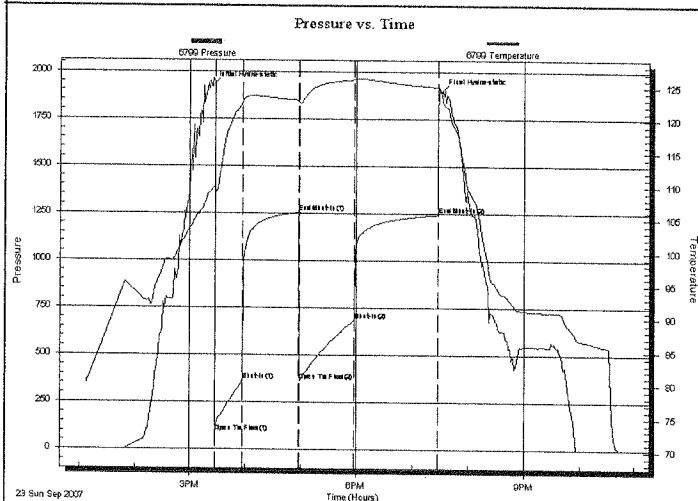
Capacity: 7000.00 psig

Last Calib.: 2007.09.23

Time On Btm: 2007.09.23 @ 15:24:24

Time Off Btm: 2007.09.23 @ 19:30:33

TEST COMMENT: IF Strong blow BOB 4 minutes.
ISI Bled off blow back @ 1" in bucket.
FF Strong blow BOB 5.5 minutes.
FSI Bled off no blowback



PRESSURE SUMMARY

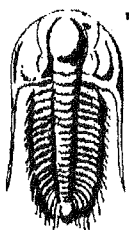
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.68	109.40	Initial Hydro-static
3	89.65	108.82	Open To Flow (1)
33	362.74	122.43	Shut-In(1)
94	1254.45	122.95	End Shut-In(1)
94	361.02	122.61	Open To Flow (2)
153	685.19	126.07	Shut-In(2)
244	1242.40	124.96	End Shut-In(2)
247	1890.64	124.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	OSSMCW .5%O 5.5%M 94%W	0.61
1085.00	SOCW 5%O 95%W (reversed out)	14.67
120.00	OMCW 5%O 5%M 90%W	1.68
150.00	OCWM 15%O 35%W 50%M	2.10
0.00	CHL=66,000ppm; Less than 60' 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

Murfin Drilling Company

Alberta #1-28

250 N Water Ste 300
Wichita KS 67202

28 5 29 Decatur KS

ATTN: Terry McLeod

Job Ticket: 29228

DST#: 2

Test Start: 2007.09.23 @ 13:06:54

Tool Information

Drill Pipe:	Length: 3676.00 ft	Diameter: 3.80 inches	Volume: 51.56 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 52.47 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3863.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3845.00	
Hydraulic tool	5.00			3850.00	
Safety Joint	3.00			3853.00	
Packer	5.00			3858.00	23.00 Bottom Of Top Packer
Packer	5.00			3863.00	
Stubb	1.00			3864.00	
Recorder	0.00	6799	Inside	3864.00	
Perforations	9.00			3873.00	
Blank Spacing	34.00			3907.00	
Recorder	0.00	10270	Outside	3907.00	
Bullnose	3.00			3910.00	47.00 Bottom Packers & Anchor

Total Tool Length: 70.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Alberta #1-28

250 N Water Ste 300
Wichita KS 67202

28 5 29 Decatur KS

Job Ticket: 29228

DST#: 2

ATTN: Terry McLeod

Test Start: 2007.09.23 @ 13:06:54

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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 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
125.00	OSSMCW .5%O 5.5%M 94%W	0.615
1085.00	SOCW 5%O 95%W (reversed out)	14.673
120.00	OMCW 5%O 5%M 90%W	1.683
150.00	OCWM 15%O 35%W 50%M	2.104
0.00	CHL=66,000ppm; Less than 60' GIP	0.000

Total Length: 1480.00 ft

Total Volume: 19.075 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

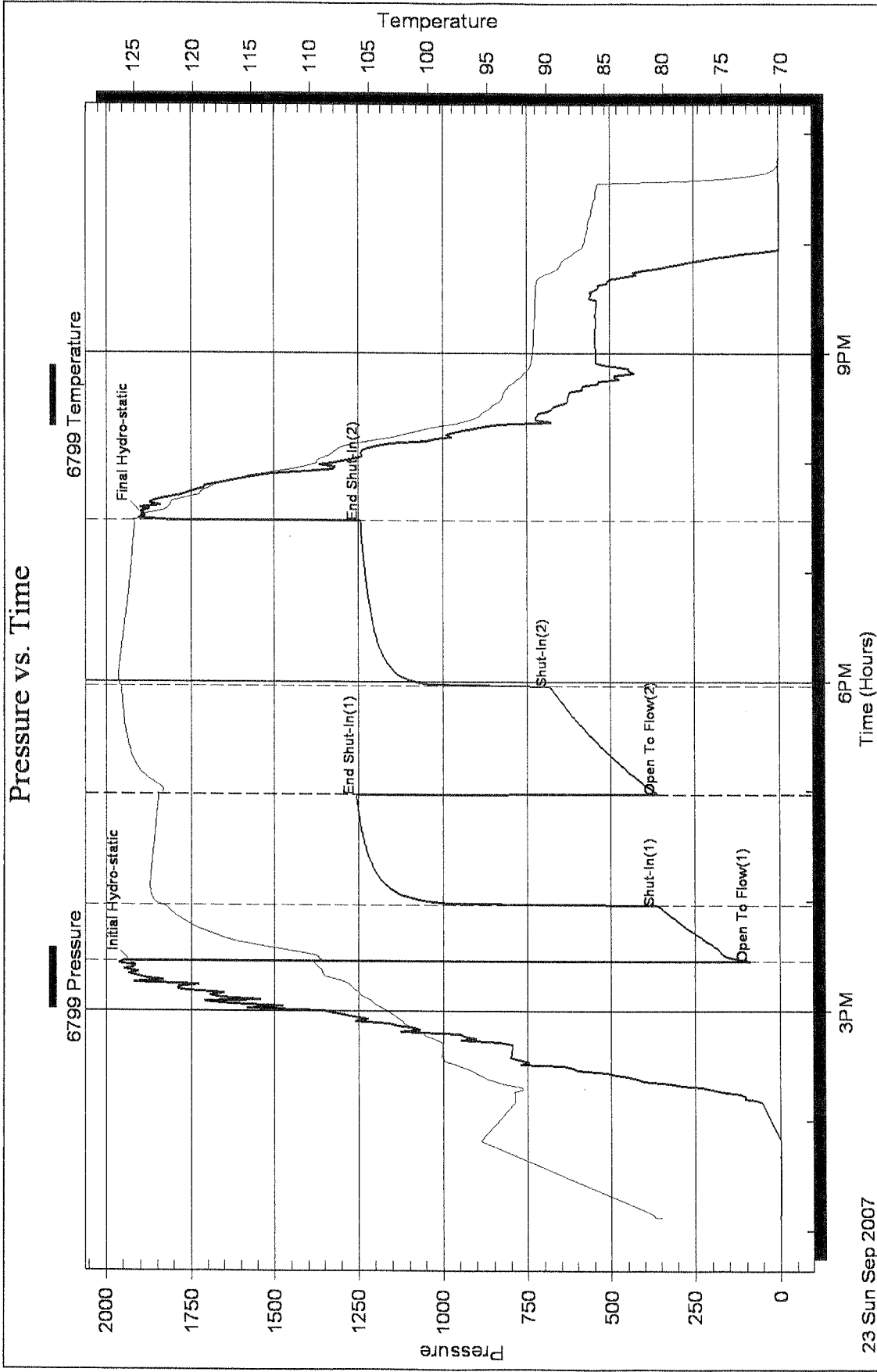
Serial #:

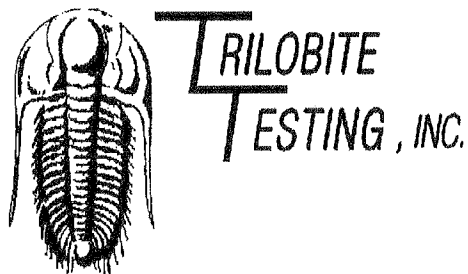
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

28 5 29 Decatur KS

Alberta #1-28

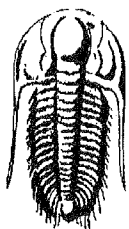
Start Date: 2007.09.24 @ 10:56:49

End Date: 2007.09.24 @ 20:08:08

Job Ticket #: 29229 DST #: 3

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

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Alberta #1-28

28 5 29 Decatur KS

Job Ticket: 29229

DST#: 3

Test Start: 2007.09.24 @ 10:56:49

GENERAL INFORMATION:

Formation: **Lansing "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:56:09

Time Test Ended: 20:08:08

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3909.00 ft (KB) To 4017.00 ft (KB) (TVD)**

Total Depth: 4017.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2711.00 ft (KB)

2706.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 266.70 psig @ 3910.00 ft (KB)

Start Date: 2007.09.24

End Date:

2007.09.24

Start Time: 10:56:51

End Time:

20:08:08

Capacity: 7000.00 psig

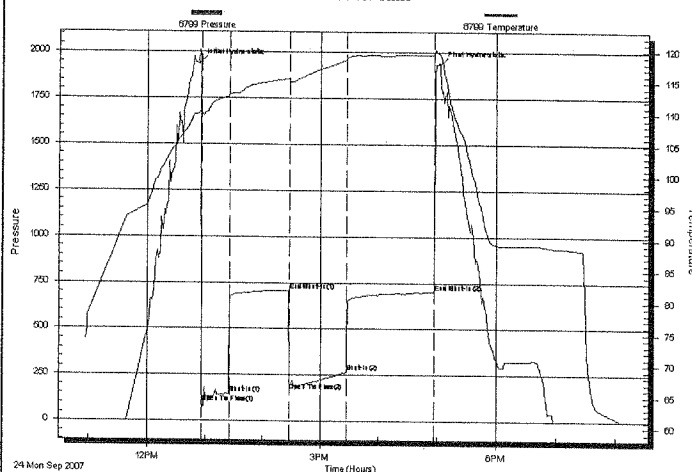
Last Calib.: 2007.09.24

Time On Btm: 2007.09.24 @ 12:53:49

Time Off Btm: 2007.09.24 @ 17:03:09

TEST COMMENT: IF Fairly strong blow BOB 13 minutes.
ISI Bled off blow back built to 4.5" in bucket
FF Strong blow BOB 7 minutes.
FSI Blef off blow back built to BOB in 17 minutes.

Pressure vs. Time



PRESSURE SUMMARY

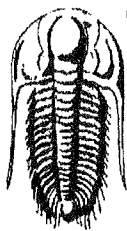
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.58	110.05	Initial Hydro-static
3	97.41	110.12	Open To Flow (1)
32	146.32	112.76	Shut-In(1)
94	705.78	115.54	End Shut-In(1)
94	162.06	115.33	Open To Flow (2)
154	266.70	118.56	Shut-In(2)
244	702.25	119.36	End Shut-In(2)
250	1933.41	119.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	HGCMO 40%G 30%M 30%O	0.61
525.00	Clean GO (20%G 80%O est.)	6.82
0.00	820' GIP	0.00
0.00	Gravity = 34 deg API	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

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Alberta #1-28

28 5 29 Decatur KS

Job Ticket: 29229

DST#: 3

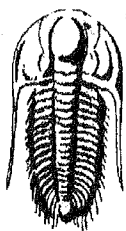
Test Start: 2007.09.24 @ 10:56:49

Tool Information

Drill Pipe:	Length: 3706.00 ft	Diameter: 3.80 inches	Volume: 51.99 bbl	Tool Weight: 3000.00 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: 70000.00 lb
		Total Volume:	52.90 bbl	Tool Chased 3.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3909.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.00 ft			
Tool Length:	131.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3891.00	
Hydraulic tool	5.00			3896.00	
Safety Joint	3.00			3899.00	
Packer	5.00			3904.00	23.00 Bottom Of Top Packer
Packer	5.00			3909.00	
Stubb	1.00			3910.00	
Recorder	0.00	6799	Inside	3910.00	
Perforations	7.00			3917.00	
Recorder	0.00	10270	Outside	3917.00	
Blank Spacing	97.00			4014.00	
Bullnose	3.00			4017.00	108.00 Bottom Packers & Anchor

Total Tool Length: 131.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Alberta #1-28

250 N Water Ste 300
Wichita KS 67202

28 5 29 Decatur KS

Job Ticket: 29229

DST#: 3

ATTN: Terry McLeod

Test Start: 2007.09.24 @ 10:56:49

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	HGCMO 40%G 30%M 30%O	0.615
525.00	Clean GO (20%G 80%O est.)	6.818
0.00	820 ' GIP	0.000
0.00	Gravity = 34 deg API	0.000

Total Length: 650.00 ft

Total Volume: 7.433 bbl

Num Fluid Samples: 0

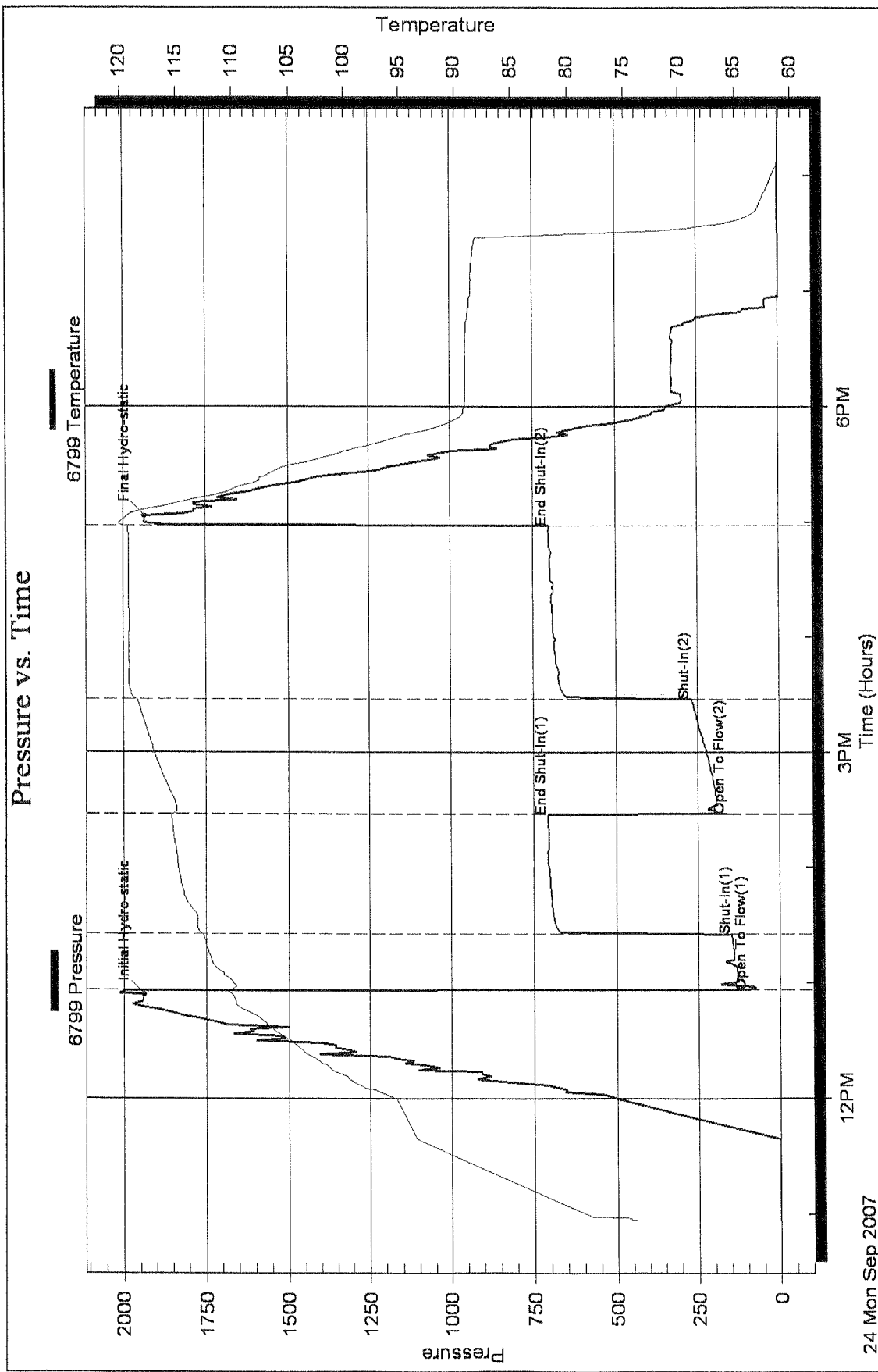
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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