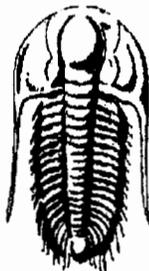


15-039-21014

17-5s-29w

CONFIDENTIAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

17 5 29W Decatur KS

Brantley #3-17

Start Date: 2007.08.26 @ 23:33:54

End Date: 2007.08.27 @ 07:51:33

Job Ticket #: 29211 DST #: 1

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KCC WICHITA**

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

Murfin Drilling Company

Brantley #3-17

17 5 29W Decatur KS

DST # 1

Toronto, Lansing "A&

2007.08.26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

1701 Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Brantley #3-17

17 5 29W Decatur KS

Job Ticket: 29211

DST#: 1

Test Start: 2007.08.26 @ 23:33:54

GENERAL INFORMATION:

Formation: **Toronto, Lansing "A&**

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

Time Tool Opened: 01:47:54

Time Test Ended: 07:51:33

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **22**

Interval: **3837.00 ft (KB) To 3922.00 ft (KB) (TVD)**

Total Depth: **3922.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2815.00 ft (KB)**

2810.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6799

Inside

Press@RunDepth: **113.81 psig @ 3838.00 ft (KB)**

Start Date: **2007.08.26**

End Date:

2007.08.27

Start Time: **23:33:56**

End Time:

07:51:34

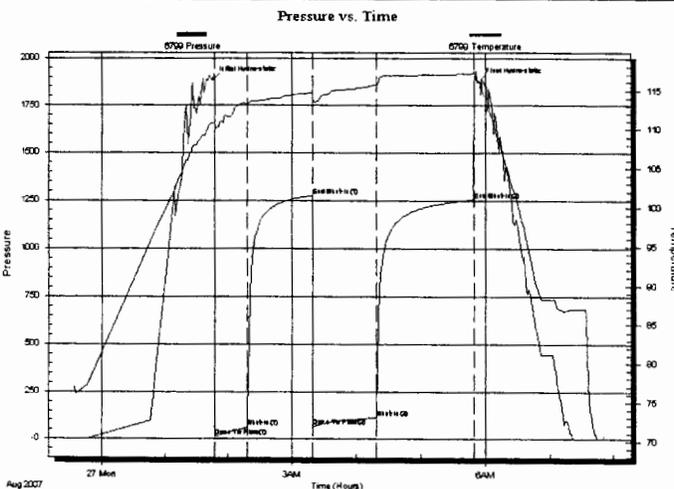
Capacity: **7000.00 psig**

Last Calib.: **2007.08.27**

Time On Btm: **2007.08.27 @ 01:45:24**

Time Off Btm: **2007.08.27 @ 05:53:24**

TEST COMMENT: IF Fairly weak blow built to 4.75" in bucket
ISI Bled off no blow back
FF Fairly weak blow built to 5.5" in bucket
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.99	110.83	Initial Hydro-static
3	13.79	109.65	Open To Flow (1)
33	61.16	113.25	Shut-In(1)
94	1277.64	114.69	End Shut-In(1)
95	65.31	113.87	Open To Flow(2)
153	113.81	115.71	Shut-In(2)
244	1256.94	117.15	End Shut-In(2)
248	1875.91	116.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	Salt Water 100%W	0.57
60.00	Mdy Wtr 40%M 60%W	0.30
20.00	Drig Mud 100%M	0.19
0.00	RW=.2 OHMS@70degF=36000ppmCHL	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

ATTN: Terry McLeod

Job Ticket: 29211

DST#: 1

Test Start: 2007.08.26 @ 23:33:54

Tool Information

Drill Pipe:	Length: 3644.00 ft	Diameter: 3.80 inches	Volume: 51.12 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: 52000.00 lb
		Total Volume: 52.03 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3837.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3819.00	
Hydraulic tool	5.00			3824.00	
Safety Joint	3.00			3827.00	
Packer	5.00			3832.00	23.00 Bottom Of Top Packer
Packer	5.00			3837.00	
Stubb	1.00			3838.00	
Recorder	0.00	6799	inside	3838.00	
Perforations	17.00			3855.00	
Recorder	0.00	10270	Outside	3855.00	
Blank Spacing	64.00			3919.00	
Bullnose	3.00			3922.00	85.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

ATTN: Terry McLeod

Job Ticket: 29211

DST#: 1

Test Start: 2007.08.26 @ 23:33:54

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:	53.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.59 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
115.00	Salt Water 100%W	0.566
60.00	Mdy Wtr 40%M 60%W	0.295
20.00	Drig Mud 100%M	0.189
0.00	RW=.2 OHMS@70degF=36000ppmCHL	0.000

Total Length: 195.00 ft Total Volume: 1.050 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6799

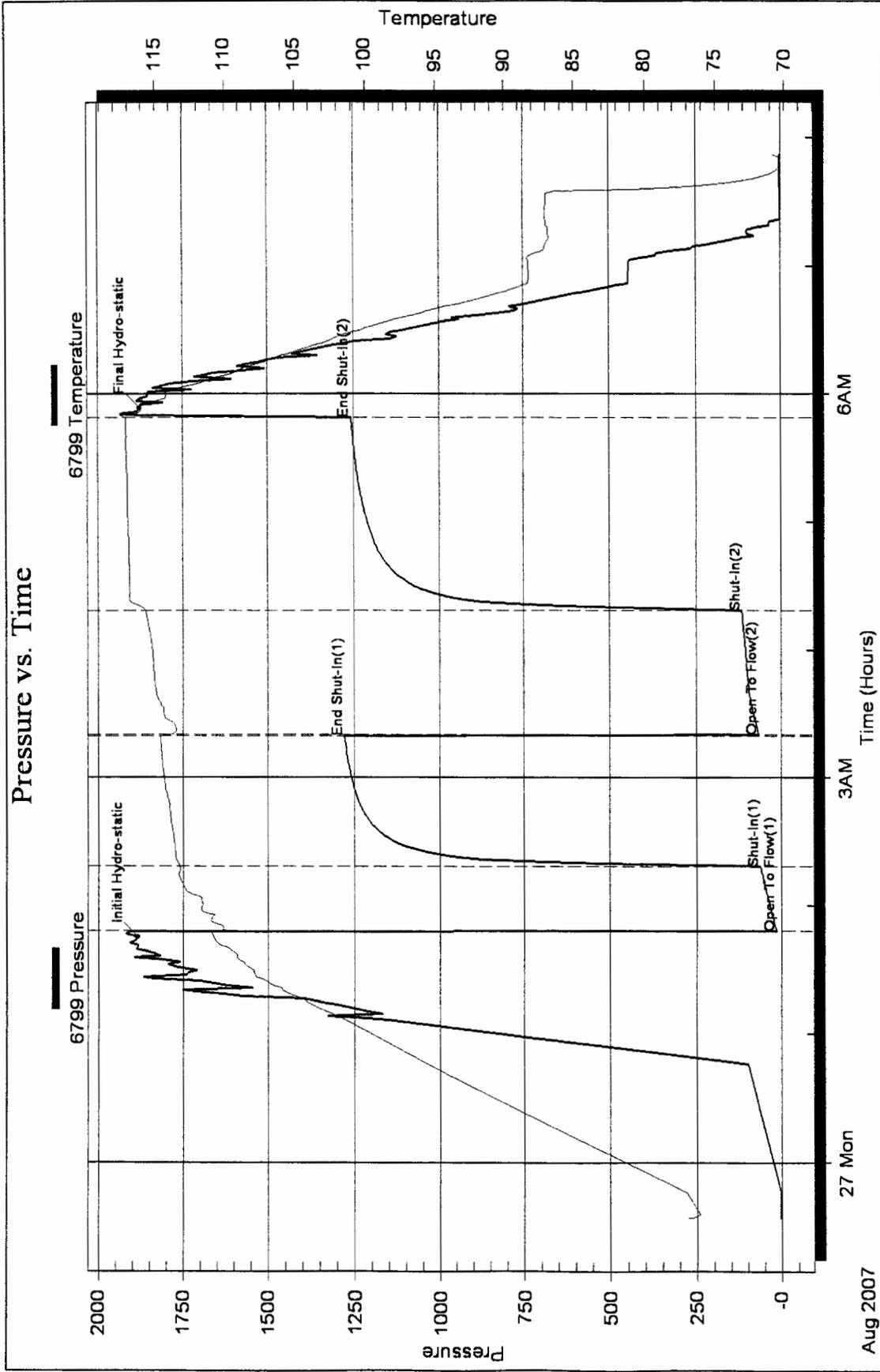
Inside

Murfin Drilling Company

17 5 29W Decatur KS

DST Test Number: 1

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

17 5 29W Decatur KS

Brantley #3-17

Start Date: 2007.08.27 @ 13:50:25

End Date: 2007.08.27 @ 21:42:25

Job Ticket #: 29212 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Brantley #3-17

17 5 29W Decatur KS

DST # 2

Lansing "B"

2007.08.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Brantley #3-17

17 5 29W Decatur KS

Job Ticket: 29212

DST#: 2

Test Start: 2007.08.27 @ 13:50:25

GENERAL INFORMATION:

Formation: **Lansing "B"**

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

Time Tool Opened: 15:57:15

Time Test Ended: 21:42:25

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **22**

Interval: **3909.00 ft (KB) To 3932.00 ft (KB) (TVD)**

Total Depth: **3932.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2815.00 ft (KB)**

2810.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6799

Inside

Press@RunDepth: **16.19 psig @ 3910.00 ft (KB)**

Start Date: **2007.08.27**

End Date: **2007.08.27**

Start Time: **13:50:27**

End Time: **21:42:25**

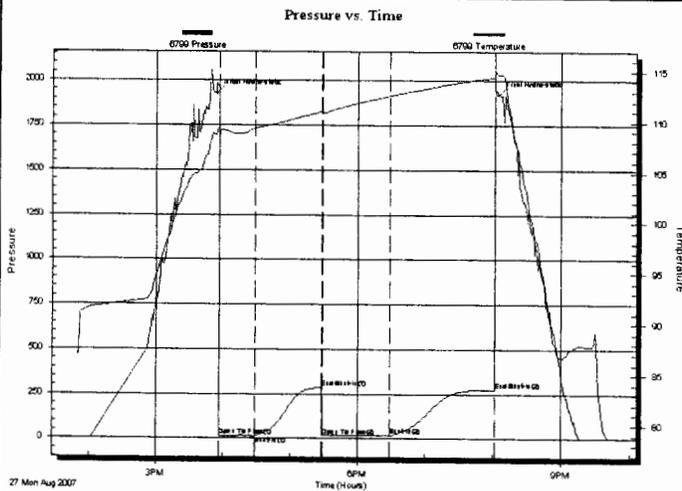
Capacity: **7000.00 psig**

Last Calib.: **2007.08.27**

Time On Btm: **2007.08.27 @ 15:54:25**

Time Off Btm: **2007.08.27 @ 20:04:34**

TEST COMMENT: IF Weak blow built to 2 " in bucket
ISI Bled off very weak surface blow back
FF Very weak surface blow built to 1 " in 40 min died to weak surface blow
FSI Bled off very weak intermittent surface blo



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1926.08	108.68	Initial Hydro-static
3	12.66	108.25	Open To Flow (1)
34	15.00	109.37	Shut-In(1)
94	286.84	111.02	End Shut-In(1)
95	15.51	110.89	Open To Flow (2)
154	16.19	112.59	Shut-In(2)
247	277.26	114.45	End Shut-In(2)
251	1919.22	114.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 20%O 80%M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

Job Ticket: 29212

DST#: 2

ATTN: Terry McLeod

Test Start: 2007.08.27 @ 13:50:25

Tool Information

Drill Pipe:	Length: 3707.00 ft	Diameter: 3.80 inches	Volume: 52.00 bbl	Tool Weight: 2100.00 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: 80000.00 lb
			<u>Total Volume: 52.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3909.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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	19.00			3929.00	
Recorder	0.00	10270	Outside	3929.00	
Bullnose	3.00			3932.00	23.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

Job Ticket: 29212

DST#: 2

ATTN: Terry McLeod

Test Start: 2007.08.27 @ 13:50:25

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 20%O 80%M	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

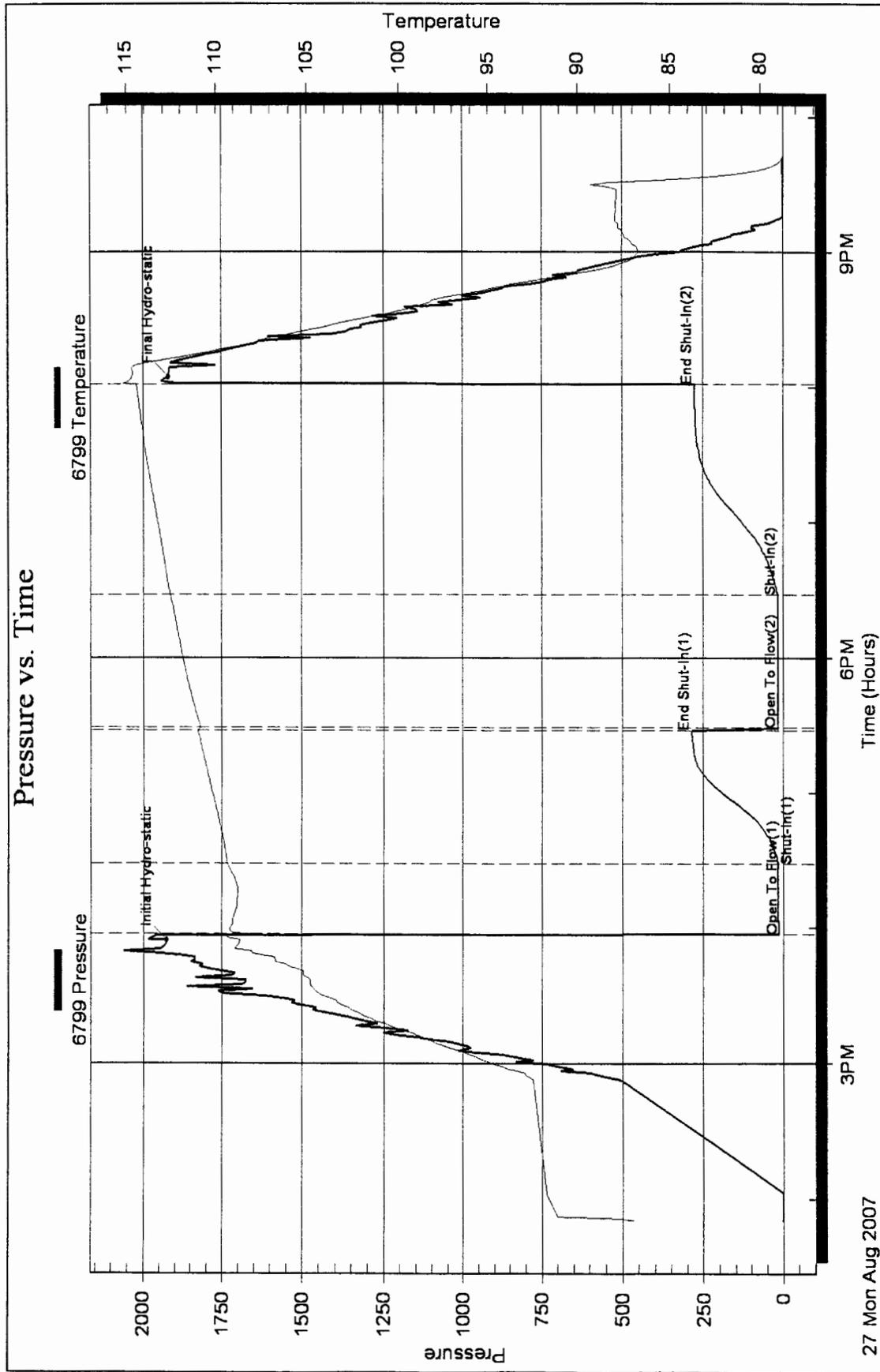
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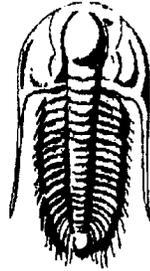
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

17 5 29W Decatur KS

Brantley #3-17

Start Date: 2007.08.28 @ 03:53:05

End Date: 2007.08.28 @ 11:43:25

Job Ticket #: 29213 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Brantley #3-17

17 5 29W Decatur KS

DST # 3

Lansing "D"

2007.08.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Brantley #3-17

17 5 29W Decatur KS

Job Ticket: 29213

DST#: 3

Test Start: 2007.08.28 @ 03:53:05

GENERAL INFORMATION:

Formation: **Lansing "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:30:35

Time Test Ended: 11:43:25

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3910.00 ft (KB) To 3952.00 ft (KB) (TVD)**

Total Depth: 3952.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2815.00 ft (KB)

2810.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 523.00 psig @ 3911.00 ft (KB)

Start Date: 2007.08.28

End Date:

2007.08.28

Start Time: 03:53:07

End Time:

11:43:24

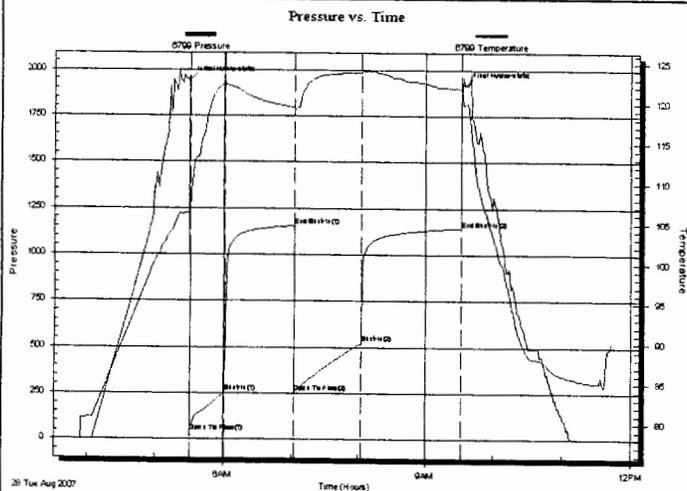
Capacity: 7000.00 psig

Last Calib.: 2007.08.28

Time On Btm: 2007.08.28 @ 05:29:55

Time Off Btm: 2007.08.28 @ 09:34:55

TEST COMMENT: IF Strong blow BOB 7.5 minutes.
ISI Bled off no blow back
FF Strong blow BOB 8.75 minutes.
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.60	106.27	Initial Hydro-static
1	37.45	105.78	Open To Flow (1)
32	255.86	122.43	Shut-In(1)
93	1154.82	119.47	End Shut-In(1)
93	257.82	119.12	Open To Flow (2)
153	523.00	123.85	Shut-In(2)
242	1142.18	121.81	End Shut-In(2)
245	1917.21	119.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
670.00	Salt Water 100%W	7.71
180.00	MCW 15%M 85%W	2.52
210.00	WCM 20%W 80%M	2.95
0.00	RW=.15 OHMS@88degF=38000ppmCHL	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

Job Ticket: 29213

DST#: 3

ATTN: Terry McLeod

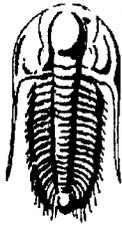
Test Start: 2007.08.28 @ 03:53:05

Tool Information

Drill Pipe:	Length: 3708.00 ft	Diameter: 3.80 inches	Volume: 52.01 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: 80000.00 lb
			<u>Total Volume: 52.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3910.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	65.00 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			3892.00	
Hydraulic tool	5.00			3897.00	
Safety Joint	3.00			3900.00	
Packer	5.00			3905.00	23.00 Bottom Of Top Packer
Packer	5.00			3910.00	
Stubb	1.00			3911.00	
Recorder	0.00	6799	Inside	3911.00	
Perforations	38.00			3949.00	
Recorder	0.00	10270	Outside	3949.00	
Bullnose	3.00			3952.00	42.00 Bottom Packers & Anchor
Total Tool Length:	65.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

Job Ticket: 29213

DST#: 3

ATTN: Terry McLeod

Test Start: 2007.08.28 @ 03:53:05

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:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
670.00	Salt Water 100%W	7.713
180.00	MCW 15%M 85%W	2.525
210.00	WCM 20%W 80%M	2.946
0.00	RW=.15 OHMS@88degF=38000ppmCHL	0.000

Total Length: 1060.00 ft Total Volume: 13.184 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

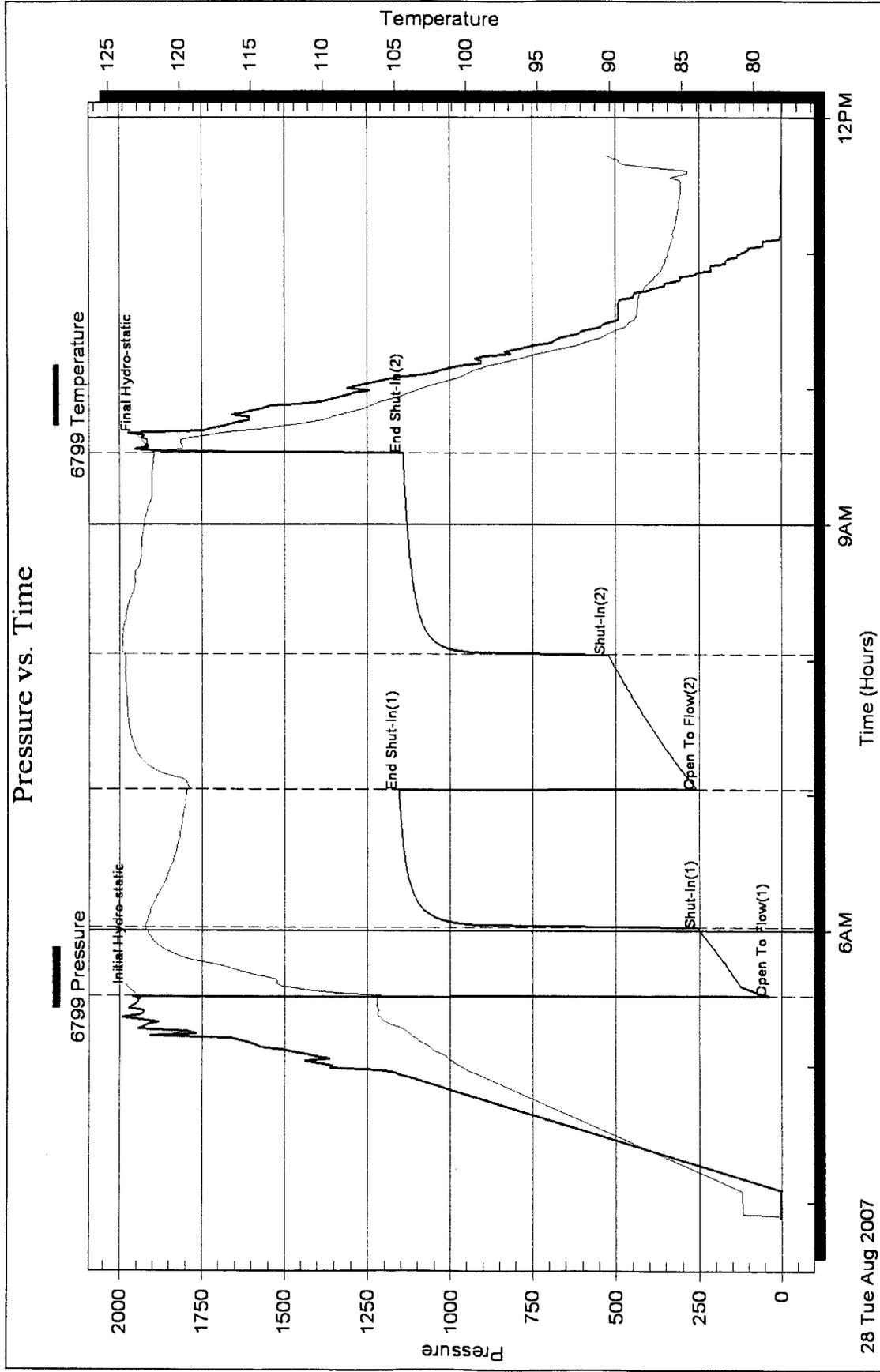
Serial #:

Laboratory Name:

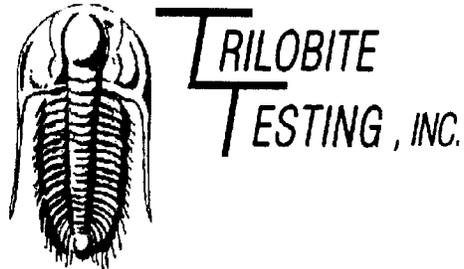
Laboratory Location:

Recovery Comments:

Pressure vs. Time



28 Tue Aug 2007



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

17 5 29W Decatur KS

Brantley #3-17

Start Date: 2007.08.28 @ 20:12:22

End Date: 2007.08.29 @ 04:32:42

Job Ticket #: 29214 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

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Brantley #3-17

17 5 29W Decatur KS

Job Ticket: 29214

DST#: 4

Test Start: 2007.08.28 @ 20:12:22

GENERAL INFORMATION:

Formation: **Lansing "EFG"**

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

Time Tool Opened: 22:21:42

Time Test Ended: 04:32:42

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **22**

Interval: **3951.00 ft (KB) To 4005.00 ft (KB) (TVD)**

Total Depth: **4005.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2815.00 ft (KB)**

2810.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6799 **Inside**

Press@RunDepth: **94.10 psig @ 3952.00 ft (KB)**

Start Date: **2007.08.28**

End Date:

2007.08.29

Start Time: **20:12:24**

End Time:

04:32:41

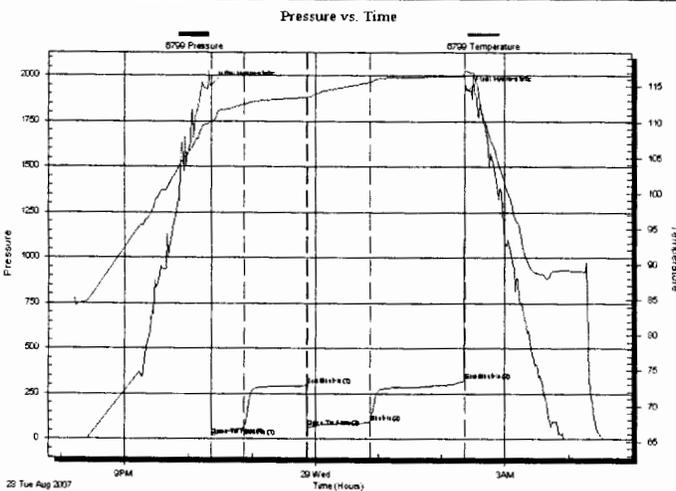
Capacity: **7000.00 psig**

Last Calib.: **2007.08.29**

Time On Btm: **2007.08.28 @ 22:21:02**

Time Off Btm: **2007.08.29 @ 02:25:52**

TEST COMMENT: IF Fair blow built to 9.75" in bucket
ISI Bled off no blow back
FF Fair blow built to BOB in 45 minutes.
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.15	109.95	Initial Hydro-static
1	18.17	109.40	Open To Flow (1)
31	59.52	112.44	Shut-In(1)
91	294.80	113.45	End Shut-In(1)
91	63.15	113.45	Open To Flow (2)
151	94.10	115.58	Shut-In(2)
241	322.82	116.45	End Shut-In(2)
245	1921.08	117.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OM 45%O 65%M	0.30
35.00	GCOM 10%G 30%O 60%M	0.17
125.00	Clean Oil 100%O	0.93
0.00	Corrected gravity = 36 deg API (90' GR)	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

Job Ticket: 29214

DST#: 4

ATTN: Terry McLeod

Test Start: 2007.08.28 @ 20:12:22

Tool Information

Drill Pipe:	Length: 3776.00 ft	Diameter: 3.80 inches	Volume: 52.97 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: 30000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3951.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	77.00 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			3933.00	
Hydraulic tool	5.00			3938.00	
Safety Joint	3.00			3941.00	
Packer	5.00			3946.00	23.00 Bottom Of Top Packer
Packer	5.00			3951.00	
Stubb	1.00			3952.00	
Recorder	0.00	6799	Inside	3952.00	
Perforations	17.00			3969.00	
Recorder	0.00	10270	Outside	3969.00	
Blank Spacing	33.00			4002.00	
Bullnose	3.00			4005.00	54.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

Job Ticket: 29214

DST#: 4

ATTN: Terry McLeod

Test Start: 2007.08.28 @ 20:12:22

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: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length: ft	Description	Volume bbl
60.00	OM 45%O 65%M	0.295
35.00	GCOM 10%G 30%O 60%M	0.172
125.00	Clean Oil 100%O	0.934
0.00	Corrected gravity = 36 deg API (90' GP)	0.000

Total Length: 220.00 ft

Total Volume: 1.401 bbl

Num Fluid Samples: 0

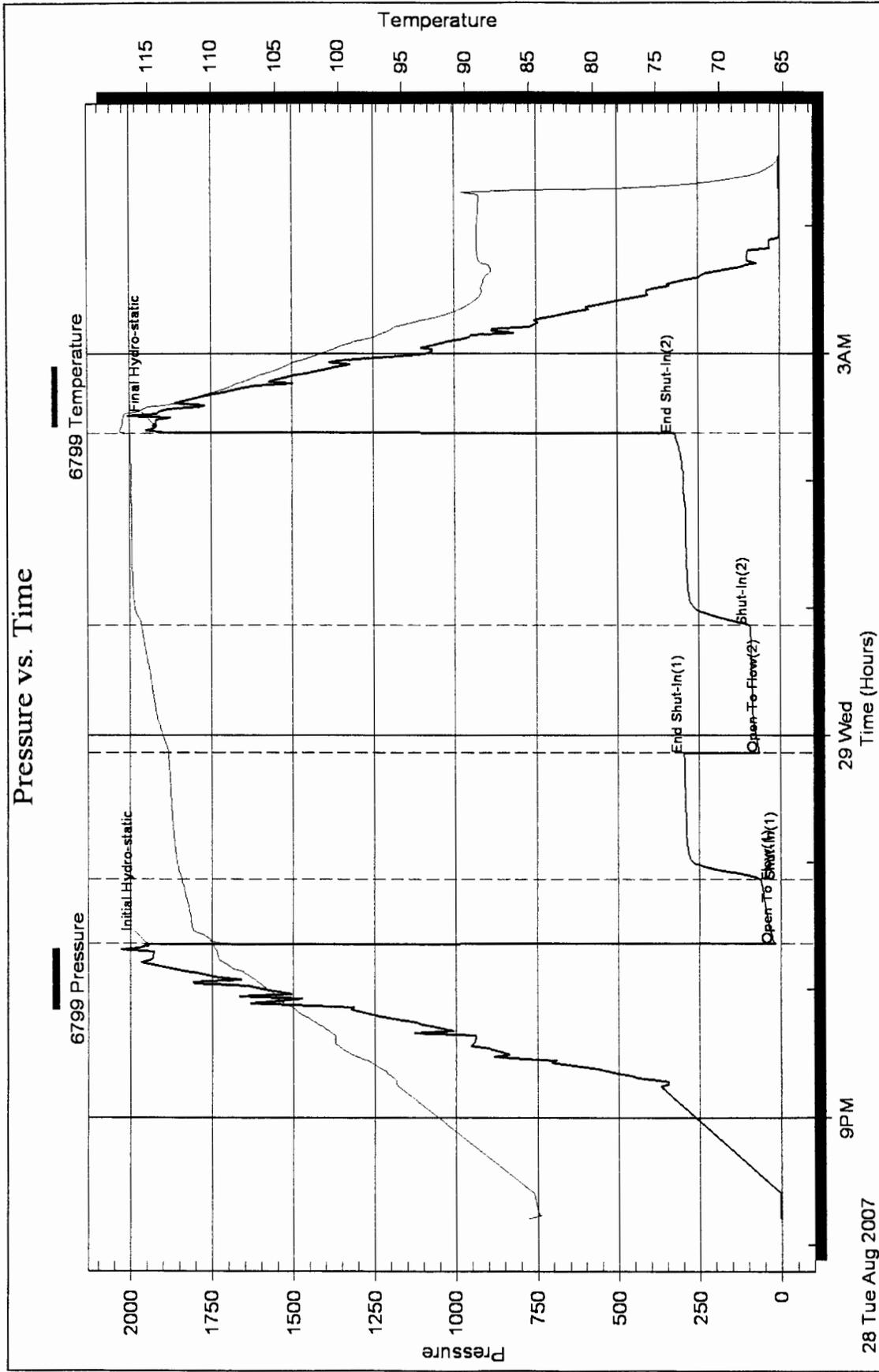
Num Gas Bombs: 0

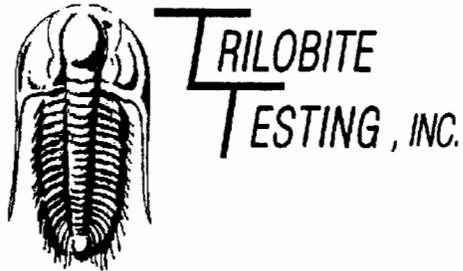
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

17 5 29W Decatur KS

Brantley #3-17

Start Date: 2007.08.29 @ 14:36:45

End Date: 2007.08.29 @ 22:48:54

Job Ticket #: 29215 DST #: 5

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

Brantley #3-17

17 5 29W Decatur KS

Job Ticket: 29215

DST#: 5

Test Start: 2007.08.29 @ 14:36:45

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:59:55

Time Test Ended: 22:48:54

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3999.00 ft (KB) To 4090.00 ft (KB) (TVD)**

Total Depth: 4090.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2815.00 ft (KB)

2810.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 18.41 psig @ 4000.00 ft (KB)

Start Date: 2007.08.29

End Date: 2007.08.29

Start Time: 14:36:47

End Time: 22:48:55

Capacity: 7000.00 psig

Last Calib.: 2007.08.29

Time On Btm: 2007.08.29 @ 16:59:15

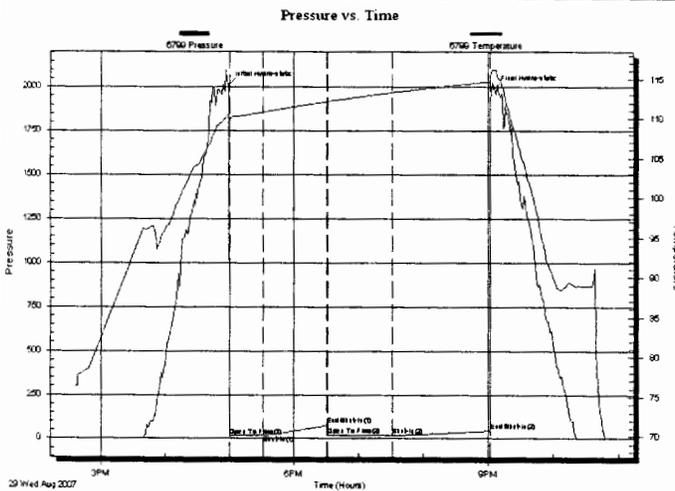
Time Off Btm: 2007.08.29 @ 21:05:15

TEST COMMENT: IF Weak blow @ .75" in 17 minutes. Blow died by end of flow

ISI No blow back

FF No blow

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.67	110.53	Initial Hydro-static
1	14.70	109.73	Open To Flow (1)
32	16.85	110.80	Shut-In(1)
92	77.07	112.13	End Shut-In(1)
92	17.14	112.12	Open To Flow (2)
153	18.41	113.30	Shut-In(2)
243	44.39	114.67	End Shut-In(2)
246	1993.17	116.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud 100%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

Job Ticket: 29215

DST#: 5

ATTN: Terry McLeod

Test Start: 2007.08.29 @ 14:36:45

Tool Information

Drill Pipe:	Length: 3801.00 ft	Diameter: 3.80 inches	Volume: 53.32 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: 60000.00 lb
			<u>Total Volume: 54.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3999.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	114.00 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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Shut In Tool	5.00			3981.00	
Hydraulic tool	5.00			3986.00	
Safety Joint	3.00			3989.00	
Packer	5.00			3994.00	23.00 Bottom Of Top Packer
Packer	5.00			3999.00	
Stubb	1.00			4000.00	
Recorder	0.00	6799	Inside	4000.00	
Perforations	22.00			4022.00	
Recorder	0.00	10270	Outside	4022.00	
Blank Spacing	65.00			4087.00	
Bullnose	3.00			4090.00	91.00 Bottom Packers & Anchor

Total Tool Length: 114.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Brantley #3-17

250 N Water Ste 300
Wichita KS 67202

17 5 29W Decatur KS

Job Ticket: 29215

DST#: 5

ATTN: Terry McLeod

Test Start: 2007.08.29 @ 14:36:45

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling Mud 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

