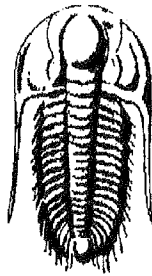


15-039-21019

19-5s-29w

IND

CONFIDENTIAL



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

19 5S 29W Decatur KS

Greene-O'Brien #3-19

Start Date: 2007.09.15 @ 05:51:34

End Date: 2007.09.15 @ 15:31:38

Job Ticket #: 29416 DST #: 1

CONFIDENTIAL

JAN 08 2008

KCC

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 10 2008

CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Co

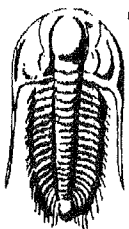
Greene-O'Brien #3-19

19 5S 29W Decatur KS

DST # 1

Tor., Lans A, B, & C

2007.09.15



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Greene-O'Brien #3-19

19 5S 29W Decatur KS

Job Ticket: 29416

DST#: 1

Test Start: 2007.09.15 @ 05:51:34

GENERAL INFORMATION:

Formation: **Tor., Lans A, B, & C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:54:54

Time Test Ended: 15:31:38

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 25

Interval: **3844.00 ft (KB) To 3940.00 ft (KB) (TVD)**

Total Depth: 3940.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2844.00 ft (KB)

2839.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769 Inside

Press@RunDepth: 550.84 psig @ 3845.00 ft (KB)

Start Date: 2007.09.15

End Date:

2007.09.15

Start Time: 05:51:34

End Time:

15:31:38

Capacity: 7000.00 psig

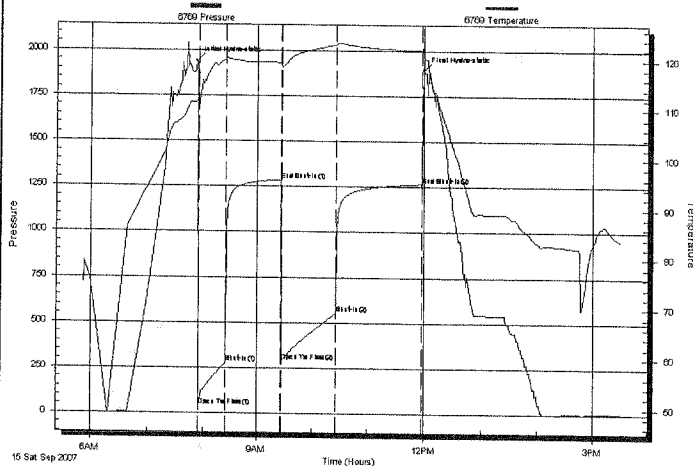
Last Calib.: 2007.09.15

Time On Btm: 2007.09.15 @ 07:53:09

Time Off Btm: 2007.09.15 @ 11:59:54

TEST COMMENT: IF BOB in 5 mins.
IS Surface blow for 24 mins.
FF BOB in 6 mins.
FS Built to 1 1/2 inch.

Pressure vs. Time



PRESSURE SUMMARY

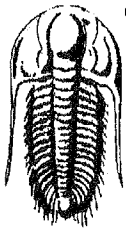
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.28	111.52	Initial Hydro-static
2	39.45	110.98	Open To Flow (1)
32	276.18	120.13	Shut-In (1)
93	1285.46	119.42	End Shut-In (1)
93	286.54	118.58	Open To Flow (2)
153	550.84	123.08	Shut-In (2)
245	1265.15	121.97	End Shut-In (2)
247	1893.47	120.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	100%M	0.30
744.00	MCW 85%W 15%M	9.32
298.00	O&WCM 15%O 10%W 75%M	4.18
62.00	100%O	0.87

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Greene-O'Brien #3-19

19 5S 29W Decatur KS

Job Ticket: 29416

DST#: 1

Test Start: 2007.09.15 @ 05:51:34

Tool Information

Drill Pipe:	Length: 3671.00 ft	Diameter: 3.80 inches	Volume: 51.49 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: 52.40 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3844.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	119.00 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			3822.00	
Shut In Tool	5.00			3827.00	
Hydraulic tool	5.00			3832.00	
Safety Joint	3.00			3835.00	
Packer	5.00			3840.00	23.00 Bottom Of Top Packer
Packer	4.00			3844.00	
Stubb	1.00			3845.00	
Recorder	0.00	6769	Inside	3845.00	
Perforations	25.00			3870.00	
Change Over Sub	1.00			3871.00	
Drill Pipe	63.00			3934.00	
Change Over Sub	1.00			3935.00	
Recorder	0.00	2607	Inside	3935.00	
Bullnose	5.00			3940.00	96.00 Bottom Packers & Anchor

Total Tool Length: 119.00

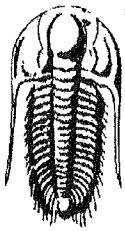
CONFIDENTIAL

JAN 08 2008

RECEIVED KCC
KANSAS CORPORATION COMMISSION

JAN 10 2008

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Greene-O'Brien #3-19

19 5S 29W Decatur KS

Job Ticket: 29416

DST#: 1

Test Start: 2007.09.15 @ 05:51:34

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 6.79 in³

Resistivity: 0.00 ohm.m

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

25 deg API

Water Salinity:

40000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	100%M	0.305
744.00	MCW 85%W 15%M	9.316
298.00	O&WCM 15%O 10%W 75%M	4.180
62.00	100%O	0.870

Total Length: 1166.00 ft

Total Volume: 14.671 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

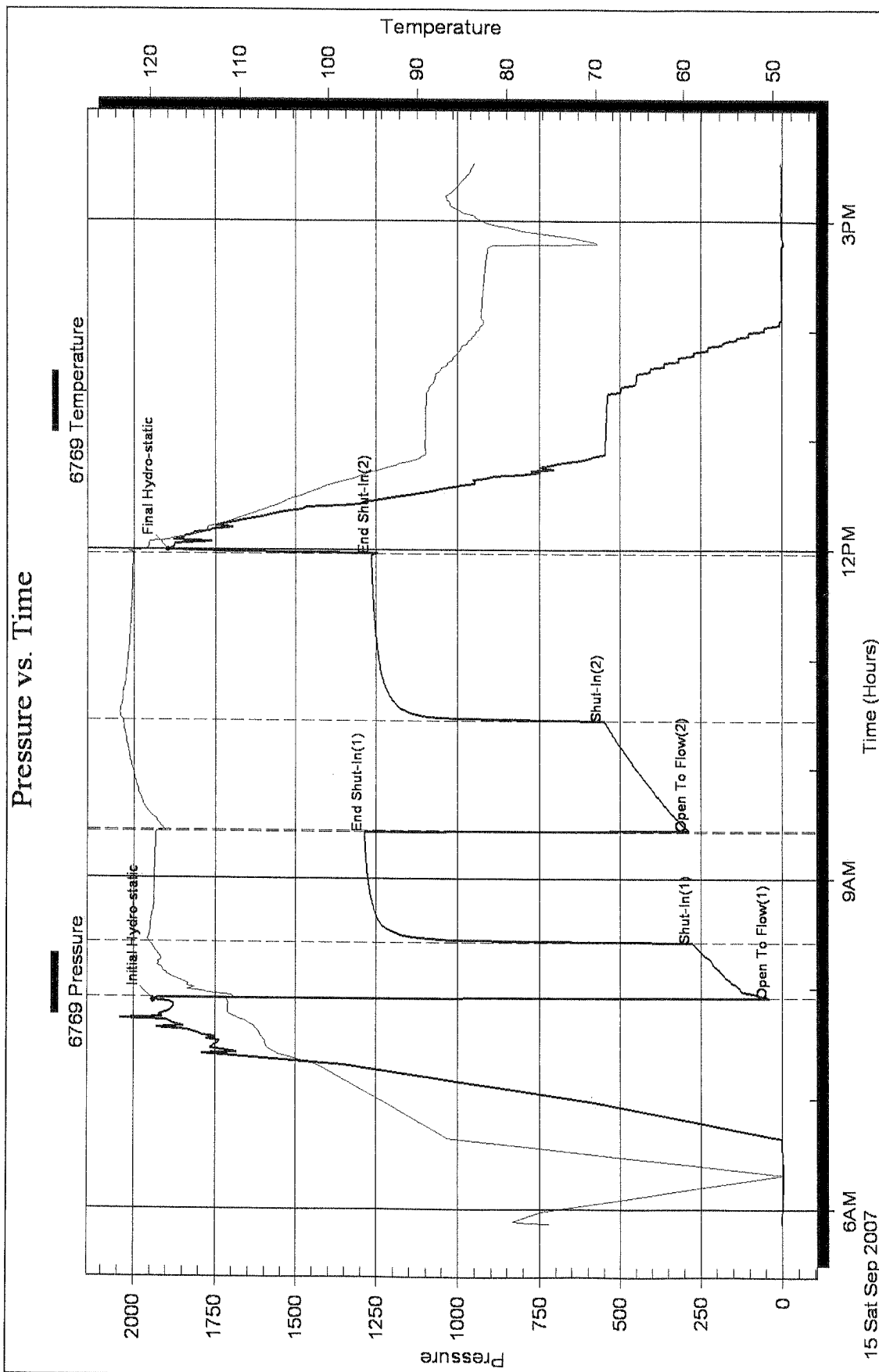
Serial #: 6769

Inside

Murfin Drilling Co

19 5S 29W Decatur KS

DST Test Number: 1



CONFIDENTIAL

JAN 08 2008

KCC

RECEIVED

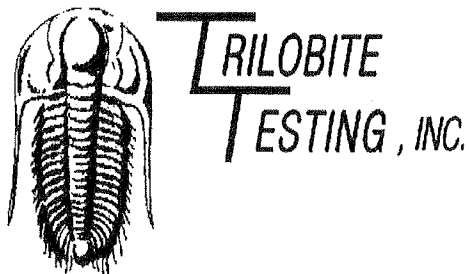
Trilobite Testing, Inc

KANSAS CORPORATION COMMISSION

No: 29416

JAN 10 2008

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

19 5S 29W Decatur KS

Greene-O'Brien #3-19

Start Date: 2007.09.15 @ 22:37:35

End Date: 2007.09.16 @ 06:54:55

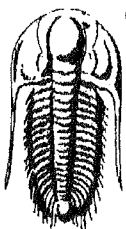
Job Ticket #: 29224 DST #: 2

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

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 10 2008

CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Greene-O'Brien #3-19

19 5S 29W Decatur KS

Job Ticket: 29224

DST#: 2

Test Start: 2007.09.15 @ 22:37:35

GENERAL INFORMATION:

Formation: **Lansing "EFG"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:08:55

Time Test Ended: 06:54:55

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3946.00 ft (KB) To 3990.00 ft (KB) (TVD)**

Total Depth: 3990.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2844.00 ft (KB)

2839.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press@RunDepth: 283.04 psig @ 3947.00 ft (KB)

Start Date: 2007.09.15

End Date:

2007.09.16

Start Time: 22:37:37

End Time:

06:54:54

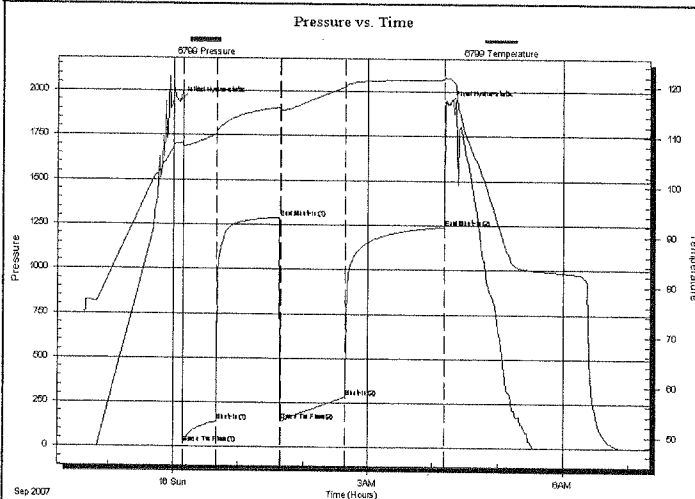
Capacity: 7000.00 psig

Last Calib.: 2007.09.16

Time On Btm: 2007.09.16 @ 00:06:05

Time Off Btm: 2007.09.16 @ 04:14:24

TEST COMMENT: IF Strong blow built to BOB in 9.5 minutes.
ISI Bled off blow back built to 2.5 " bucket
FF Strong blow built to BOB in 13 minutes.
FSI Bled off blow back built to BOB in 40 minutes.



PRESSURE SUMMARY

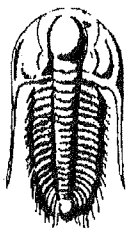
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.00	108.44	Initial Hydro-static
3	21.59	107.78	Open To Flow (1)
34	145.71	110.51	Shut-In (1)
92	1290.48	115.76	End Shut-In (1)
94	146.33	115.22	Open To Flow (2)
153	283.04	119.84	Shut-In (2)
245	1240.26	121.46	End Shut-In (2)
249	1932.15	121.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	OSMCW 2%O 10%M 88%W	1.82
145.00	HGCMO 30%G 35%M 35%O	2.03
270.00	GO 20%G 80%O	3.79
0.00	930' GIP Gravity 37.5 CHL = 78,000p	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Greene-O'Brien #3-19

19 5S 29W Decatur KS

Job Ticket: 29224

DST#: 2

Test Start: 2007.09.15 @ 22:37:35

Tool Information

Drill Pipe:	Length: 3766.00 ft	Diameter: 3.80 inches	Volume: 52.83 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: 53.74 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3946.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	67.00 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			3928.00	
Hydraulic tool	5.00			3933.00	
Safety Joint	3.00			3936.00	
Packer	5.00			3941.00	23.00 Bottom Of Top Packer
Packer	5.00			3946.00	
Stubb	1.00			3947.00	
Recorder	0.00	6799	Inside	3947.00	
Perforations	7.00			3954.00	
Blank Spacing	33.00			3987.00	
Recorder	0.00	10270	Outside	3987.00	
Bullnose	3.00			3990.00	44.00 Bottom Packers & Anchor

Total Tool Length: 67.00

CONFIDENTIAL

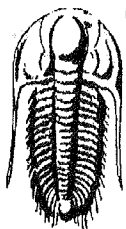
JAN 08 2008

KCC

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 10 2008

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Greene-O'Brien #3-19

19 5S 29W Decatur KS

Job Ticket: 29224

DST#: 2

Test Start: 2007.09.15 @ 22:37:35

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.79 in³

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	OSMCW 2%O 10%M 88%W	1.822
145.00	HGCMO 30%G 35%M 35%O	2.034
270.00	GO 20%G 80%O	3.787
0.00	930' GIP Gravity 37.5 CHL = 78,000p	0.000

Total Length: 665.00 ft

Total Volume: 7.643 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

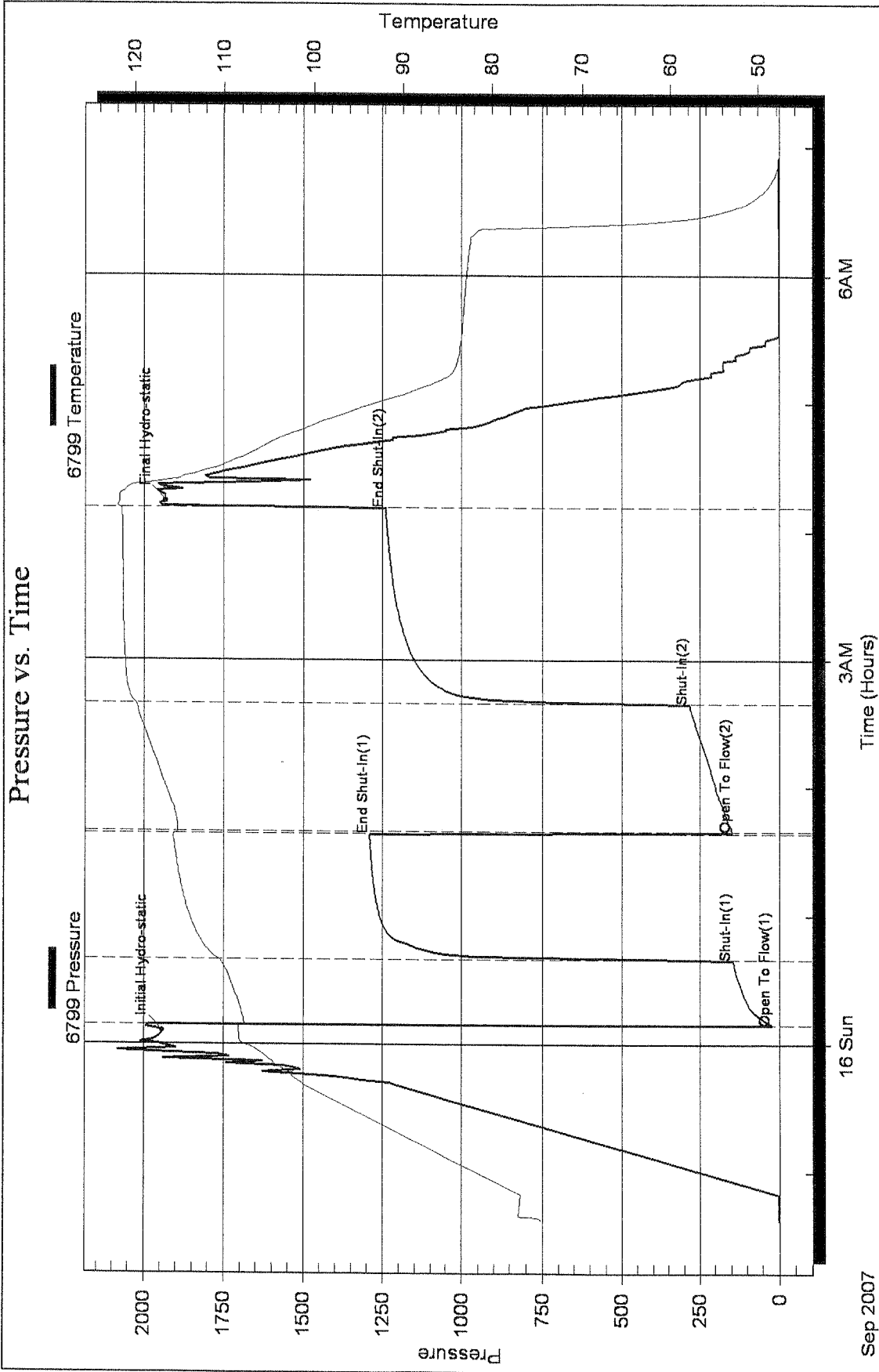
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



CONFIDENTIAL
JAN U 8 2008

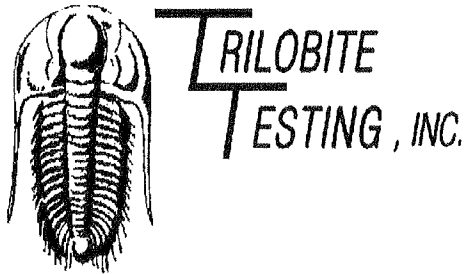
KCC

RECEIVED
TRILOBITE TESTING
CORPORATION COMMISSION

Ref. No: 29224

JAN 10 2008

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

19 5S 29W Decatur KS

Greene-O'Brien #3-19

Start Date: 2007.09.16 @ 17:20:42

End Date: 2007.09.17 @ 01:36:32

Job Ticket #: 29225 DST #: 3

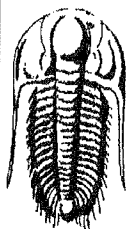
CONFIDENTIAL
JAN 08 2008
KCC

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

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 10 2008

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Greene-O'Brien #3-19

19 5S 29W Decatur KS

Job Ticket: 29225

DST#: 3

Test Start: 2007.09.16 @ 17:20:42

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:22:42

Time Test Ended: 01:36:32

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 3988.00 ft (KB) To 4100.00 ft (KB) (TVD)

Total Depth: 4100.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2844.00 ft (KB)

2839.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 191.53 psig @ 3989.00 ft (KB)

Start Date: 2007.09.16

End Date:

2007.09.17

Start Time: 17:20:44

End Time:

01:36:31

Capacity: 7000.00 psig

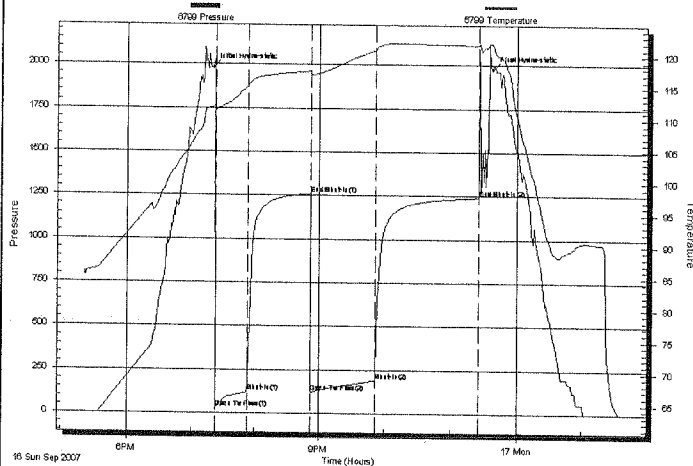
Last Calib.: 2007.09.17

Time On Btm: 2007.09.16 @ 19:20:42

Time Off Btm: 2007.09.16 @ 23:37:51

TEST COMMENT: IF Fairly strong blow BOB in 16 minutes.
ISI Bled off blow back building to 1.5 "
FF Fairly strong blow BOB in 13.5 minutes.
FSI Bled off blow back built to 5.5 " bucket

Pressure vs. Time



PRESSURE SUMMARY

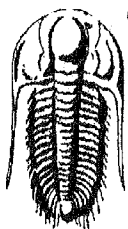
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1978.53	111.82	Initial Hydro-static
2	26.31	111.30	Open To Flow (1)
33	122.22	115.03	Shut-In(1)
92	1260.31	117.55	End Shut-In(1)
92	123.70	117.06	Open To Flow (2)
151	191.53	120.88	Shut-In(2)
245	1239.16	121.73	End Shut-In(2)
258	1973.37	121.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	GO 15%G 85%O	0.52
110.00	GCOM 10%G 24%O 66%M	0.81
70.00	WOCM 6%W 10%O 84%M	0.98
120.00	SOSMCW 1%O 30%M 69%W	1.68
0.00	560' GIP 52000 chl 37 gravity	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Greene-O'Brien #3-19

19 5S 29W Decatur KS

Job Ticket: 29225

DST#: 3

Test Start: 2007.09.16 @ 17:20:42

Tool Information

Drill Pipe:	Length: 3799.00 ft	Diameter: 3.80 inches	Volume: 53.29 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: 30000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume:	54.20 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3988.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.00 ft			
Tool Length:	135.00 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			3970.00	
Hydraulic tool	5.00			3975.00	
Safety Joint	3.00			3978.00	
Packer	5.00			3983.00	23.00 Bottom Of Top Packer
Packer	5.00			3988.00	
Stubb	1.00			3989.00	
Recorder	0.00	6799	Inside	3989.00	
Perforations	12.00			4001.00	
Blank Spacing	96.00			4097.00	
Recorder	0.00	10270	Outside	4097.00	
Bullnose	3.00			4100.00	112.00 Bottom Packers & Anchor

Total Tool Length: 135.00

CONFIDENTIAL

JAN 08 2008

KCC

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 10 2008

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Terry McLeod

Greene-O'Brien #3-19

19 5S 29W Decatur KS

Job Ticket: 29225

DST#: 3

Test Start: 2007.09.16 @ 17:20:42

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 6.79 in³

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
105.00	GO 15%G 85%O	0.516
110.00	GCOM 10%G 24%O 66%M	0.814
70.00	WOCM 6%W 10%O 84%M	0.982
120.00	SOSMCW 1%O 30%M 69%W	1.683
0.00	560 ' GIP 52000 chl 37 gravity	0.000

Total Length: 405.00 ft

Total Volume: 3.995 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

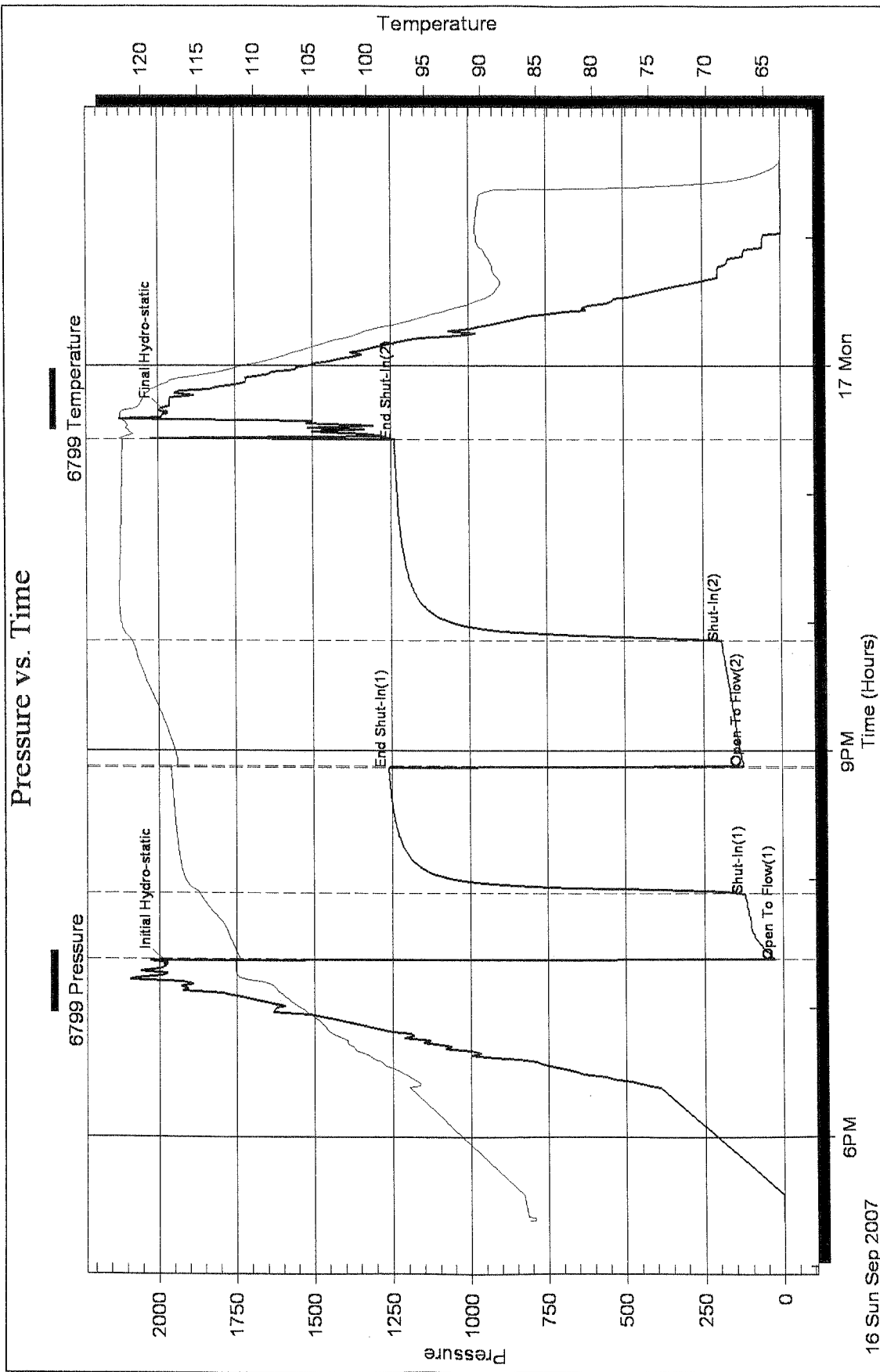
Serial #: 6799

Inside

Murfin Drilling Co

DST Test Number: 3

Pressure vs. Time



RECEIVED
KANSAS CORPORATION COMMISSION
JAN 10 2008
Trilobite Testing, Inc

Ref. No: 29225

Conservation Division
Wichita, KS