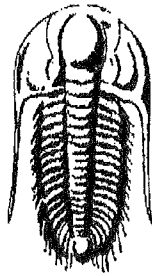


15-163-2361 2

28-10s-20w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

28 10 20 Rooks KS

Romine # 2-28

Start Date: 2007.05.29 @ 17:58:34

End Date: 2007.05.30 @ 00:37:04

Job Ticket #: 28008 DST #: 1

KCC
SEP 20 2007
CONFIDENTIAL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2007.06.04 @ 10:47:33 Page 1
RECEIVED
KANSAS GEOLOGICAL COMMISSION

SEP 24 2007

CONSERVATION DIVISION
WICHITA, KS

Murfin Drilling Co

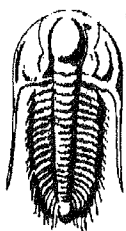
Romine # 2-28

28 10 20 Rooks KS

DST # 1

Topeka

2007.05.29



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28008

DST#: 1

Test Start: 2007.05.29 @ 17:58:34

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:41:04

Time Test Ended: 00:37:04

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3225.00 ft (KB) To 3249.00 ft (KB) (TVD)**

Total Depth: 3249.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2177.00 ft (KB)

2172.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669 Inside

Press@RunDepth: 20.10 psig @ 3226.00 ft (KB)

Start Date: 2007.05.29

End Date: 2007.05.30

Start Time: 17:58:39

End Time: 00:37:03

Capacity: 7000.00 psig

Last Calib.: 2007.05.30

Time On Btm: 2007.05.29 @ 19:40:34

Time Off Btm: 2007.05.29 @ 22:40:34

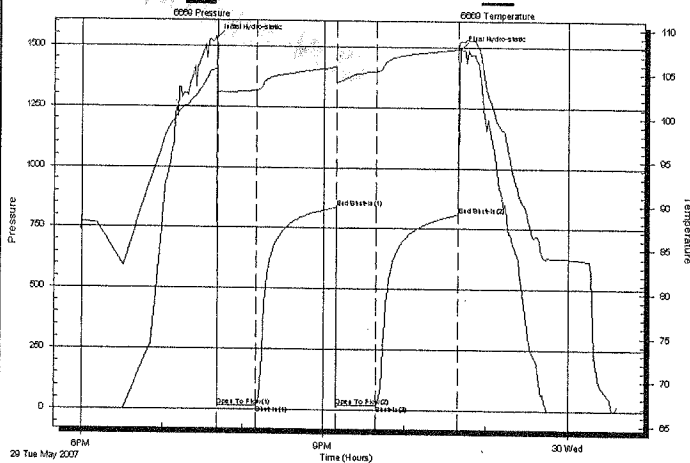
TEST COMMENT: IF Weak Dead in 15 min.

ISI Dead

FF Dead

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

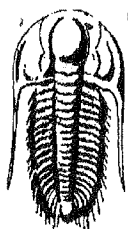
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1531.04	105.49	Initial Hydro-static
1	13.84	102.92	Open To Flow (1)
30	16.98	103.03	Shut-In (1)
89	835.27	105.74	End Shut-In (1)
89	17.65	104.04	Open To Flow (2)
118	20.10	105.25	Shut-In (2)
179	808.37	107.85	End Shut-In (2)
180	1492.73	108.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	D.Mud	0.02

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

Romine # 2-28

250 N Water Ste 300
Wichita KS 67202

28 10 20 Rooks KS

Job Ticket: 28008

DST#: 1

ATTN: Shauna Gunzelman

Test Start: 2007.05.29 @ 17:58:34

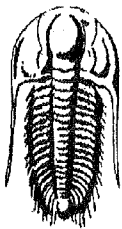
Tool Information

Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 44.99 bbl		Tool Chased 5.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3225.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 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			3198.00	
Shut In Tool	5.00			3203.00	
Hydraulic tool	5.00			3208.00	
Jars	5.00			3213.00	
Safety Joint	3.00			3216.00	
Packer	4.00			3220.00	28.00 Bottom Of Top Packer
Packer	5.00			3225.00	
Stubb	1.00			3226.00	
Recorder	0.00	6669	Inside	3226.00	
Perforations	20.00			3246.00	
Recorder	0.00	13308	Outside	3246.00	
Bullnose	3.00			3249.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Romine # 2-28

250 N Water Ste 300
Wichita KS 67202

28 10 20 Rooks KS

Job Ticket: 28008

DST#: 1

ATTN: Shauna Gunzelman

Test Start: 2007.05.29 @ 17:58:34

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	D.Mud	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

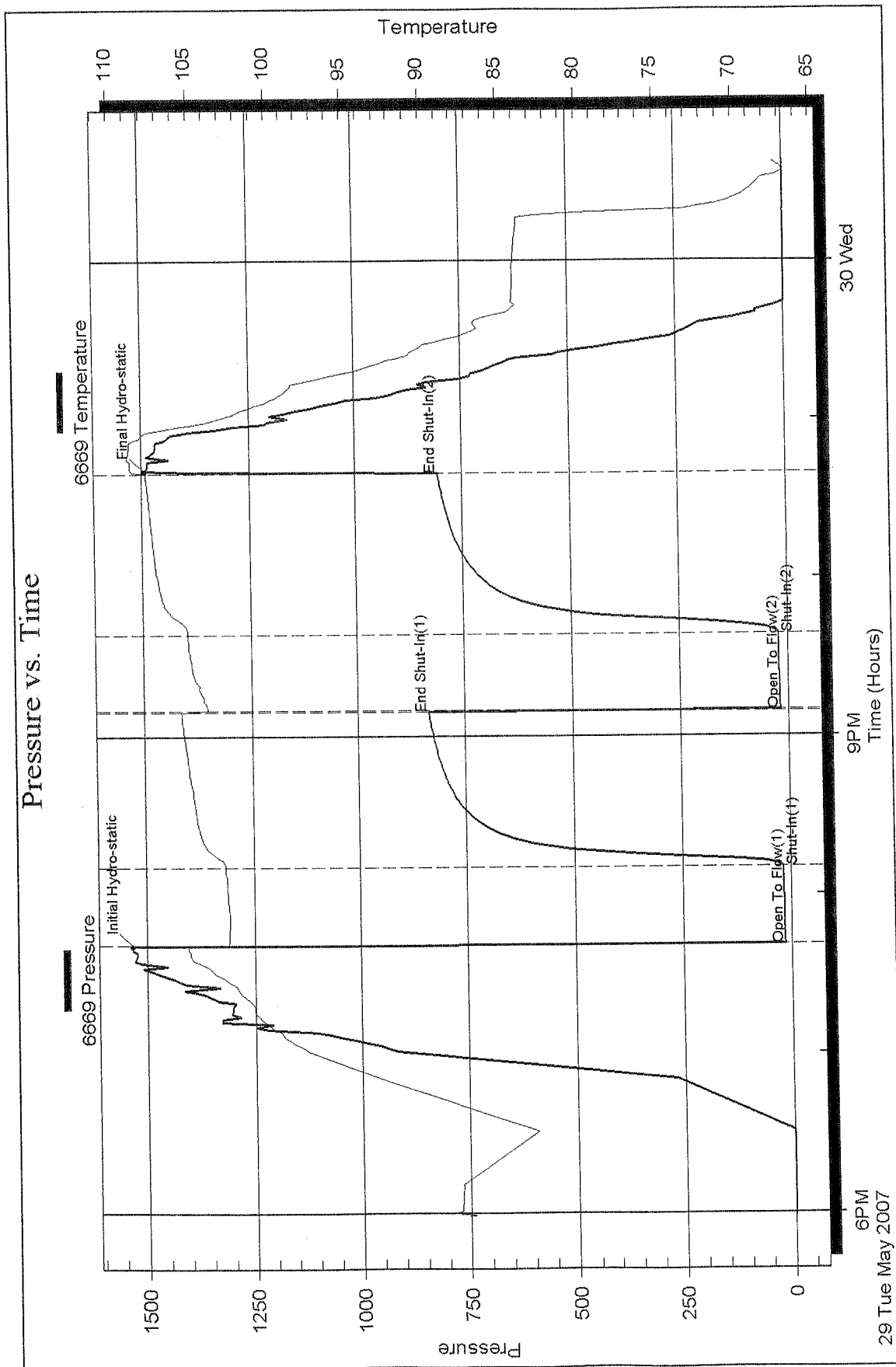
Serial #:

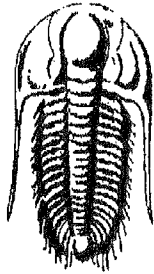
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

28 10 20 Rooks KS

Romine # 2-28

Start Date: 2007.05.31 @ 00:25:12

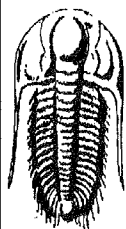
End Date: 2007.05.31 @ 07:58:12

Job Ticket #: 28009 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 Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28009

DST#: 2

Test Start: 2007.05.31 @ 00:25:12

GENERAL INFORMATION:

Formation: **L.Kc.-A to F**

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

Time Tool Opened: 02:27:12

Time Test Ended: 07:58:12

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: 3466.00 ft (KB) To 3541.00 ft (KB) (TVD)

Total Depth: **3541.00 ft (KB) (TVD)**

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

Reference Elevations: **2177.00 ft (KB)**

2172.00 ft (CF)

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

Serial #: 6669

Inside

Press@RunDepth: **118.73 psig @ 3470.00 ft (KB)**

Start Date: **2007.05.31**

End Date:

2007.05.31

Start Time: **00:25:17**

End Time:

07:58:11

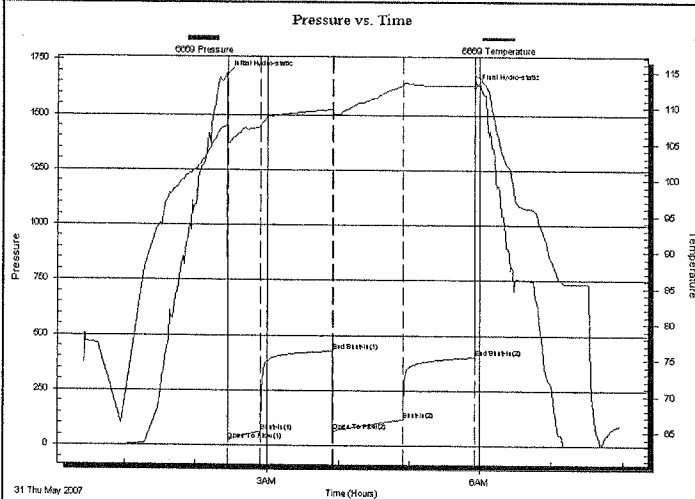
Capacity: **7000.00 psig**

Last Calib.: **2007.05.31**

Time On Btm: **2007.05.31 @ 02:26:42**

Time Off Btm: **2007.05.31 @ 05:56:12**

TEST COMMENT: IF Good built to 10"
ISI Dead
FF Strong BOB in 55 min.
FSI Dead



PRESSURE SUMMARY

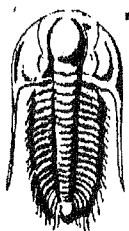
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1681.31	107.57	Initial Hydro-static
1	20.58	105.03	Open To Flow (1)
28	62.64	107.33	Shut-In (1)
88	428.27	109.75	End Shut-In (1)
89	64.94	109.00	Open To Flow (2)
148	118.73	113.08	Shut-In (2)
209	401.76	113.04	End Shut-In (2)
210	1622.68	114.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
123.00	S.W.	1.47
92.00	SOWCM 2%O 38%W 60%M	1.29
1.00	Oil	0.01

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: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28009

DST#: 2

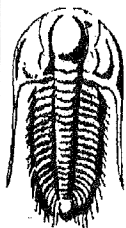
Test Start: 2007.05.31 @ 00:25:12

Tool Information

Drill Pipe:	Length: 3425.00 ft	Diameter: 3.80 inches	Volume: 48.04 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 48.18 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3466.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 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			3439.00	
Shut In Tool	5.00			3444.00	
Hydraulic tool	5.00			3449.00	
Jars	5.00			3454.00	
Safety Joint	3.00			3457.00	
Packer	4.00			3461.00	28.00 Bottom Of Top Packer
Packer	5.00			3466.00	
Stubb	1.00			3467.00	
Perforations	2.00			3469.00	
Change Over Sub	1.00			3470.00	
Recorder	0.00	6669	Inside	3470.00	
Blank Spacing	62.00			3532.00	
Change Over Sub	1.00			3533.00	
Recorder	0.00	11084	Outside	3533.00	
Perforations	5.00			3538.00	
Bullnose	3.00			3541.00	75.00 Bottom Packers & Anchor
Total Tool Length:		103.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Romine # 2-28

250 N Water Ste 300
Wichita KS 67202

28 10 20 Rooks KS

Job Ticket: 28009

DST#: 2

ATTN: Shauna Gunzelman

Test Start: 2007.05.31 @ 00:25:12

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 7.18 in³

Resistivity: ohm.m

Salinity: 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: 60000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	S.W.	1.470
92.00	SOWCM 2%O 38%W 60%M	1.291
1.00	Oil	0.014

Total Length: 216.00 ft

Total Volume: 2.775 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

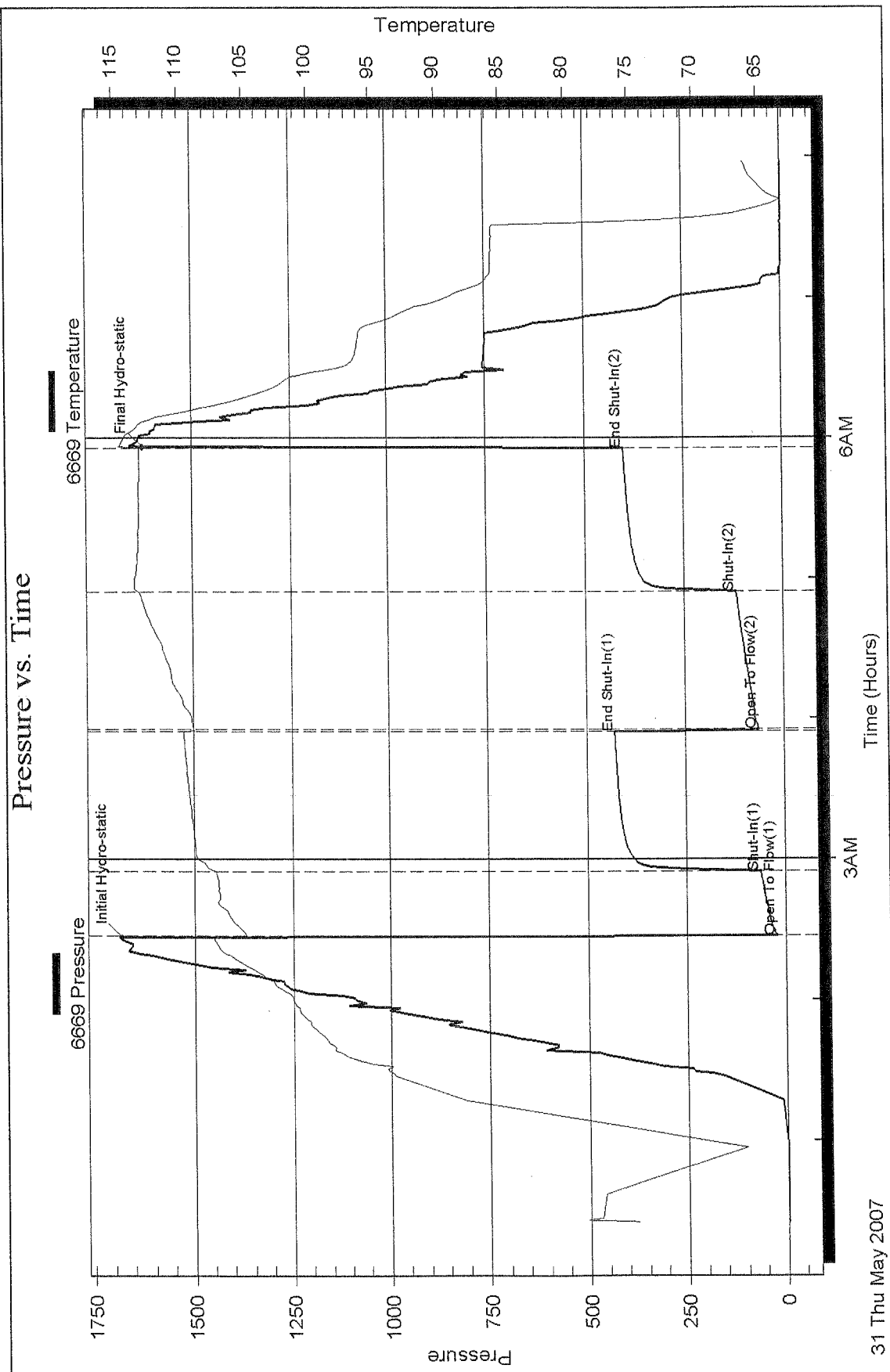
Serial #:

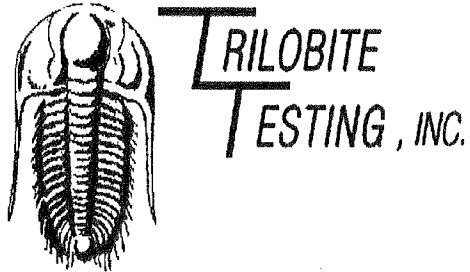
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

28 10 20 Rooks KS

Romine # 2-28

Start Date: 2007.05.31 @ 21:35:30

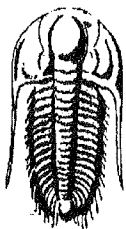
End Date: 2007.06.01 @ 05:24:00

Job Ticket #: 28010 DST #: 3

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 Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28010

DST#: 3

Test Start: 2007.05.31 @ 21:35:30

GENERAL INFORMATION:

Formation: **L.Kc.-H to L**

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

Time Tool Opened: 23:19:00

Time Test Ended: 05:24:00

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: 3574.00 ft (KB) To 3674.00 ft (KB) (TVD)

Total Depth: **3674.00 ft (KB) (TVD)**

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

Reference Elevations: **2177.00 ft (KB)**

2172.00 ft (CF)

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

Serial #: 6669

Inside

Press@RunDepth: **82.48 psig @ 3578.00 ft (KB)**

Start Date: **2007.05.31**

End Date:

2007.06.01

Start Time: **21:35:35**

End Time:

05:23:59

Capacity: **7000.00 psig**

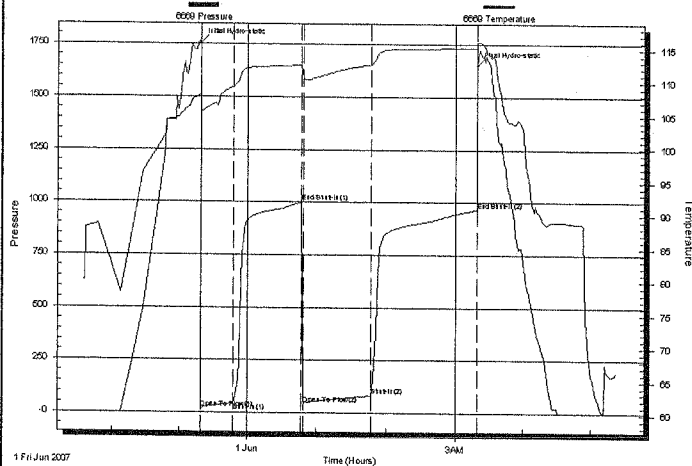
Last Calib.: **2007.06.01**

Time On Btm: **2007.05.31 @ 23:18:30**

Time Off Btm: **2007.06.01 @ 03:19:29**

TEST COMMENT: IF Strong BOB 22 min.
ISI Weak Surface
FF Strong BOB 22 min.
FSI Weak Surface

Pressure vs. Time



PRESSURE SUMMARY

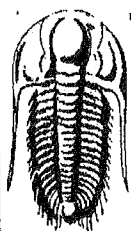
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1758.06	108.12	Initial Hydro-static
1	18.89	105.59	Open To Flow (1)
29	45.59	109.35	Shut-In(1)
89	1000.32	112.65	End Shut-In(1)
90	43.12	110.78	Open To Flow (2)
148	82.48	112.73	Shut-In(2)
241	965.76	115.27	End Shut-In(2)
241	1650.58	116.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	OCM 30%O 70%M	1.08
80.00	Clean Oil	1.12
0.00	687 Gas in Pipe	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: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28010

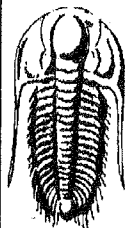
DST#: 3

Test Start: 2007.05.31 @ 21:35:30

Tool Information

Drill Pipe:	Length: 3545.00 ft	Diameter: 3.80 inches	Volume: 49.73 bbl	Tool Weight:	2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	49.87 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3574.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	.ft				
Interval between Packers:	100.00 ft				
Tool Length:	128.00 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			3547.00	
Shut In Tool	5.00			3552.00	
Hydraulic tool	5.00			3557.00	
Jars	5.00			3562.00	
Safety Joint	3.00			3565.00	
Packer	4.00			3569.00	28.00 Bottom Of Top Packer
Packer	5.00			3574.00	
Stubb	1.00			3575.00	
Perforations	2.00			3577.00	
Change Over Sub	1.00			3578.00	
Recorder	0.00	6669	Inside	3578.00	
Blank Spacing	62.00			3640.00	
Change Over Sub	1.00			3641.00	
Recorder	0.00	11084	Outside	3641.00	
Perforations	30.00			3671.00	
Bullnose	3.00			3674.00	100.00 Bottom Packers & Anchor
Total Tool Length:		128.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Romine # 2-28

250 N Water Ste 300
Wichita KS 67202

28 10 20 Rooks KS

Job Ticket: 28010

DST#: 3

ATTN: Shauna Gunzelman

Test Start: 2007.05.31 @ 21:35:30

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.58 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

39 deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	OCM 30%O 70%M	1.078
80.00	Clean Oil	1.122
0.00	687 Gas in Pipe	0.000

Total Length: 175.00 ft

Total Volume: 2.200 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

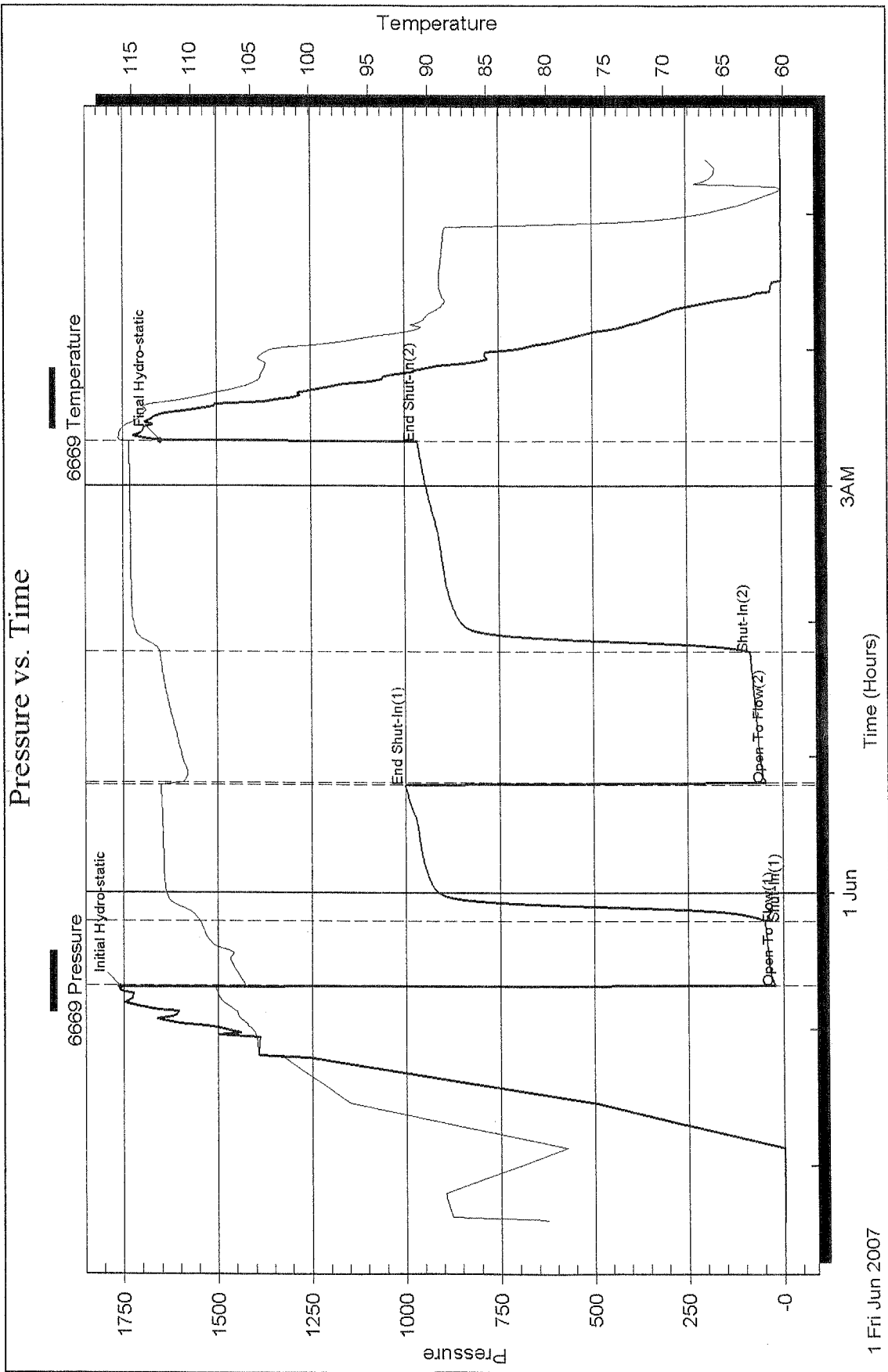
Serial #:

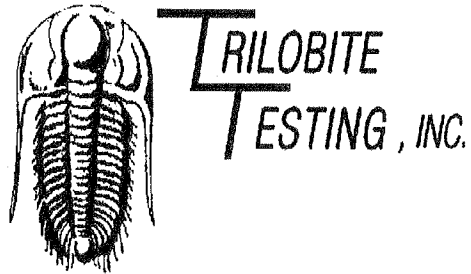
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

28 10 20 Rooks KS

Romine # 2-28

Start Date: 2007.06.01 @ 17:07:30

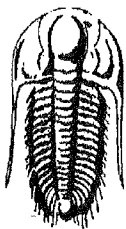
End Date: 2007.06.02 @ 00:10:00

Job Ticket #: 28011 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 Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28011

DST#: 4

Test Start: 2007.06.01 @ 17:07:30

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:54:30

Time Test Ended: 00:10:00

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3668.00 ft (KB) To 3760.00 ft (KB) (TVD)

Total Depth: 3760.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2177.00 ft (KB)

2172.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669 Inside

Press@RunDepth: 55.16 psig @ 3672.00 ft (KB)

Start Date: 2007.06.01

End Date: 2007.06.02

Start Time: 17:07:35

End Time: 00:09:59

Capacity: 7000.00 psig

Last Calib.: 2007.06.02

Time On Btm: 2007.06.01 @ 18:54:00

Time Off Btm: 2007.06.01 @ 22:22:29

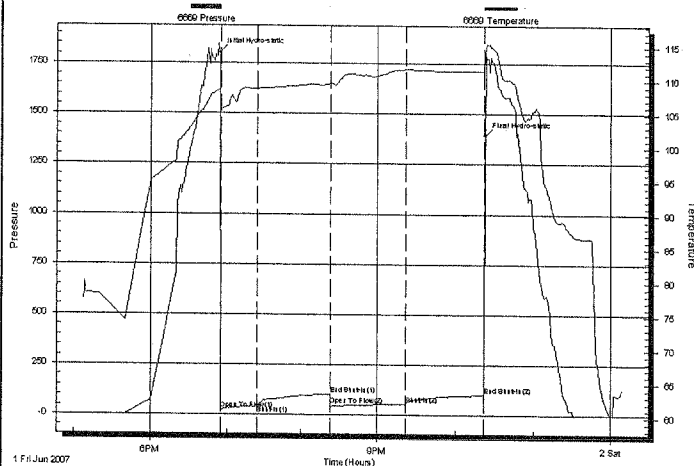
TEST COMMENT: IF Fair built to 5 "

ISI Dead

FF Fair built to 5 "

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

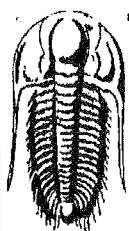
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1803.70	108.64	Initial Hydro-static
1	22.25	105.94	Open To Flow (1)
30	42.80	108.63	Shut-In(1)
89	102.27	109.57	End Shut-In(1)
89	46.80	109.51	Open To Flow (2)
148	55.16	111.66	Shut-In(2)
208	100.49	111.49	End Shut-In(2)
209	1393.26	113.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 15%O 85%M	1.01
0.00	30 Gas in pipe	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

Romine # 2-28

250 N Water Ste 300
Wichita KS 67202

28 10 20 Rooks KS

Job Ticket: 28011

DST#: 4

ATTN: Shauna Gunzelman

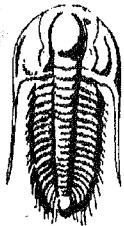
Test Start: 2007.06.01 @ 17:07:30

Tool Information

Drill Pipe:	Length: 3639.00 ft	Diameter: 3.80 inches	Volume: 51.05 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 51.19 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3668.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 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			3641.00	
Shut In Tool	5.00			3646.00	
Hydraulic tool	5.00			3651.00	
Jars	5.00			3656.00	
Safety Joint	3.00			3659.00	
Packer	4.00			3663.00	28.00 Bottom Of Top Packer
Packer	5.00			3668.00	
Stubb	1.00			3669.00	
Perforations	2.00			3671.00	
Change Over Sub	1.00			3672.00	
Recorder	0.00	6669	Inside	3672.00	
Blank Spacing	62.00			3734.00	
Change Over Sub	1.00			3735.00	
Recorder	0.00	11084	Outside	3735.00	
Perforations	22.00			3757.00	
Bullnose	3.00			3760.00	92.00 Bottom Packers & Anchor
Total Tool Length:		120.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Romine # 2-28

250 N Water Ste 300
Wichita KS 67202

28 10 20 Rooks KS

Job Ticket: 28011

DST#: 4

ATTN: Shauna Gunzelman

Test Start: 2007.06.01 @ 17:07:30

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 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
90.00	OCM 15%O 85%M	1.007
0.00	30 Gas in pipe	0.000

Total Length: 90.00 ft

Total Volume: 1.007 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

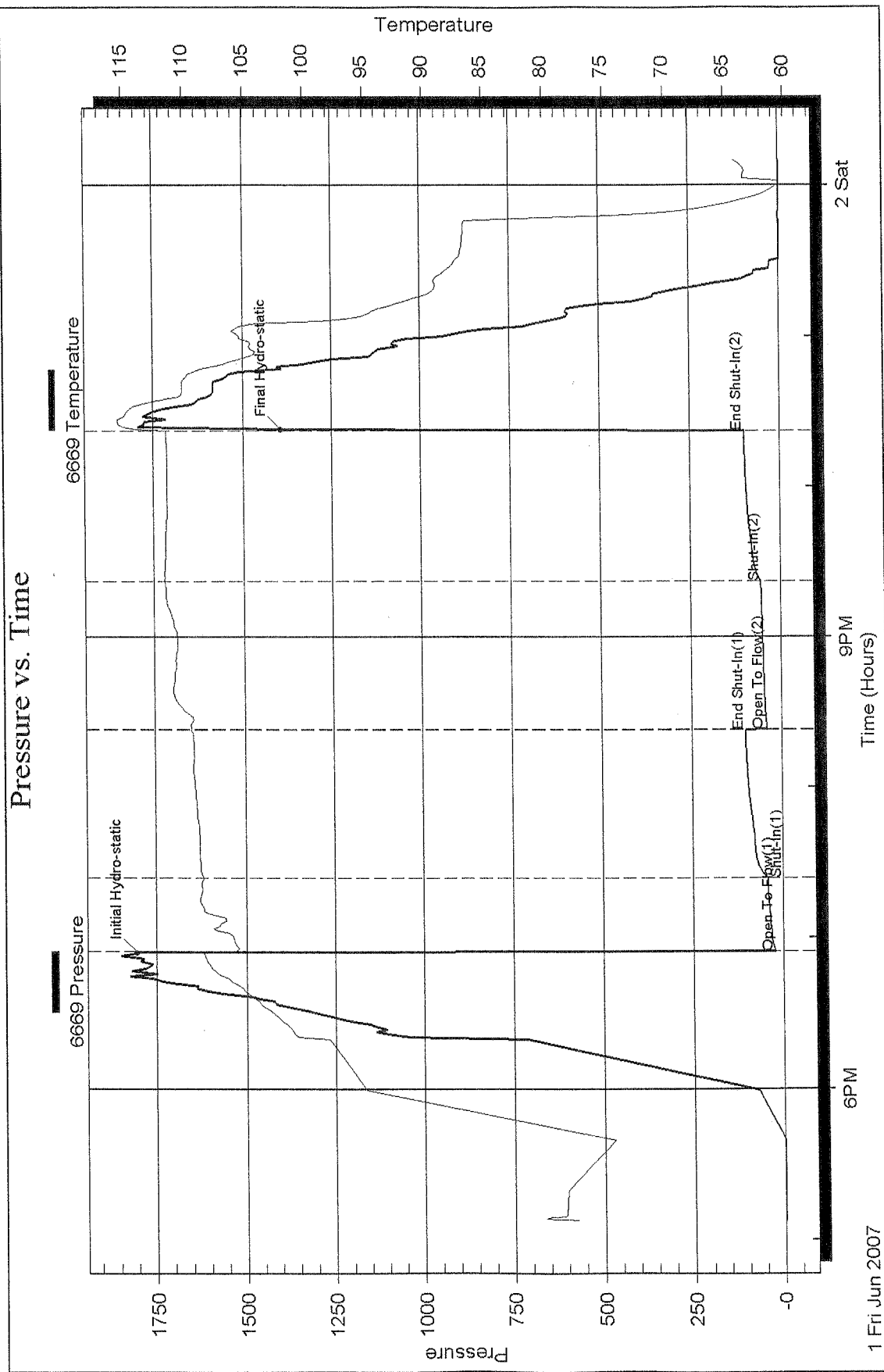
Serial #:

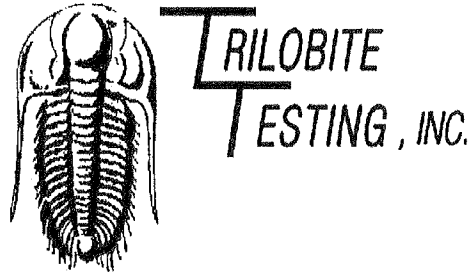
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

28 10 20 Rooks KS

Romine # 2-28

Start Date: 2007.06.02 @ 07:38:22

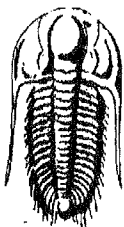
End Date: 2007.06.02 @ 15:05:52

Job Ticket #: 28012 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 Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28012

DST#: 5

Test Start: 2007.06.02 @ 07:38:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:15:22

Time Test Ended: 15:05:52

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3760.00 ft (KB) To 3770.00 ft (KB) (TVD)**

Total Depth: 3770.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2177.00 ft (KB)

2172.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669

Inside

Press@RunDepth: 86.07 psig @ 3762.00 ft (KB)

Start Date: 2007.06.02

End Date: 2007.06.02

Start Time: 07:38:27

End Time: 15:05:51

Capacity: 7000.00 psig

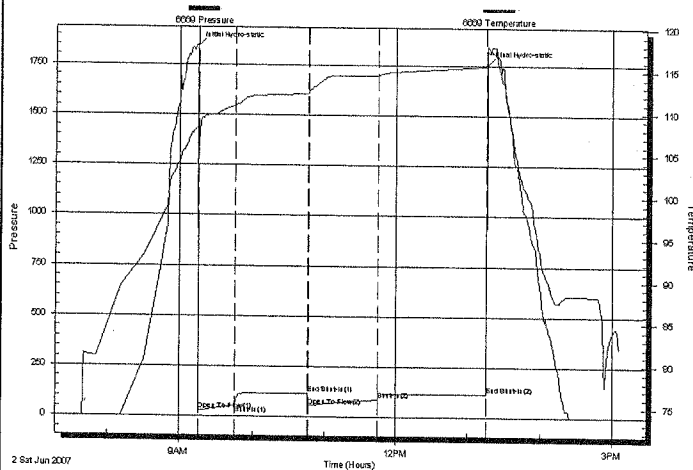
Last Calib.: 2007.06.02

Time On Btm: 2007.06.02 @ 09:14:52

Time Off Btm: 2007.06.02 @ 13:15:51

TEST COMMENT: IF Strong BOB in 26 min.
ISI Weak Surface
FF Strong BOB in 59 min.
FSI Weak Surface

Pressure vs. Time



PRESSURE SUMMARY

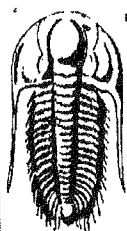
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.11	108.40	Initial Hydro-static
1	27.79	106.46	Open To Flow (1)
31	53.19	110.74	Shut-In(1)
91	117.61	112.27	End Shut-In(1)
91	54.05	112.36	Open To Flow (2)
150	86.07	114.47	Shut-In(2)
241	117.44	115.57	End Shut-In(2)
241	1754.28	117.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 35%O 65%M	0.17
160.00	Clean Oil	2.24
0.00	60 Gas in Pipe	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: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28012

DST#: 5

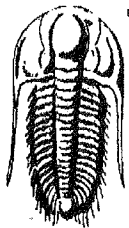
Test Start: 2007.06.02 @ 07:38:22

Tool Information

Drill Pipe:	Length: 3733.00 ft	Diameter: 3.80 inches	Volume: 52.36 bbl	Tool Weight:	2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	52.50 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3760.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	38.00 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			3733.00	
Shut In Tool	5.00			3738.00	
Hydraulic tool	5.00			3743.00	
Jars	5.00			3748.00	
Safety Joint	3.00			3751.00	
Packer	4.00			3755.00	28.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Stubb	1.00			3761.00	
Perforations	1.00			3762.00	
Recorder	0.00	6669	Inside	3762.00	
Perforations	5.00			3767.00	
Recorder	0.00	13308	Outside	3767.00	
Bullnose	3.00			3770.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Romine # 2-28

250 N Water Ste 300
Wichita KS 67202

28 10 20 Rooks KS

Job Ticket: 28012

DST#: 5

ATTN: Shauna Gunzelman

Test Start: 2007.06.02 @ 07:38:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 35%O 65%M	0.166
160.00	Clean Oil	2.244
0.00	60 Gas in Pipe	0.000

Total Length: 190.00 ft

Total Volume: 2.410 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

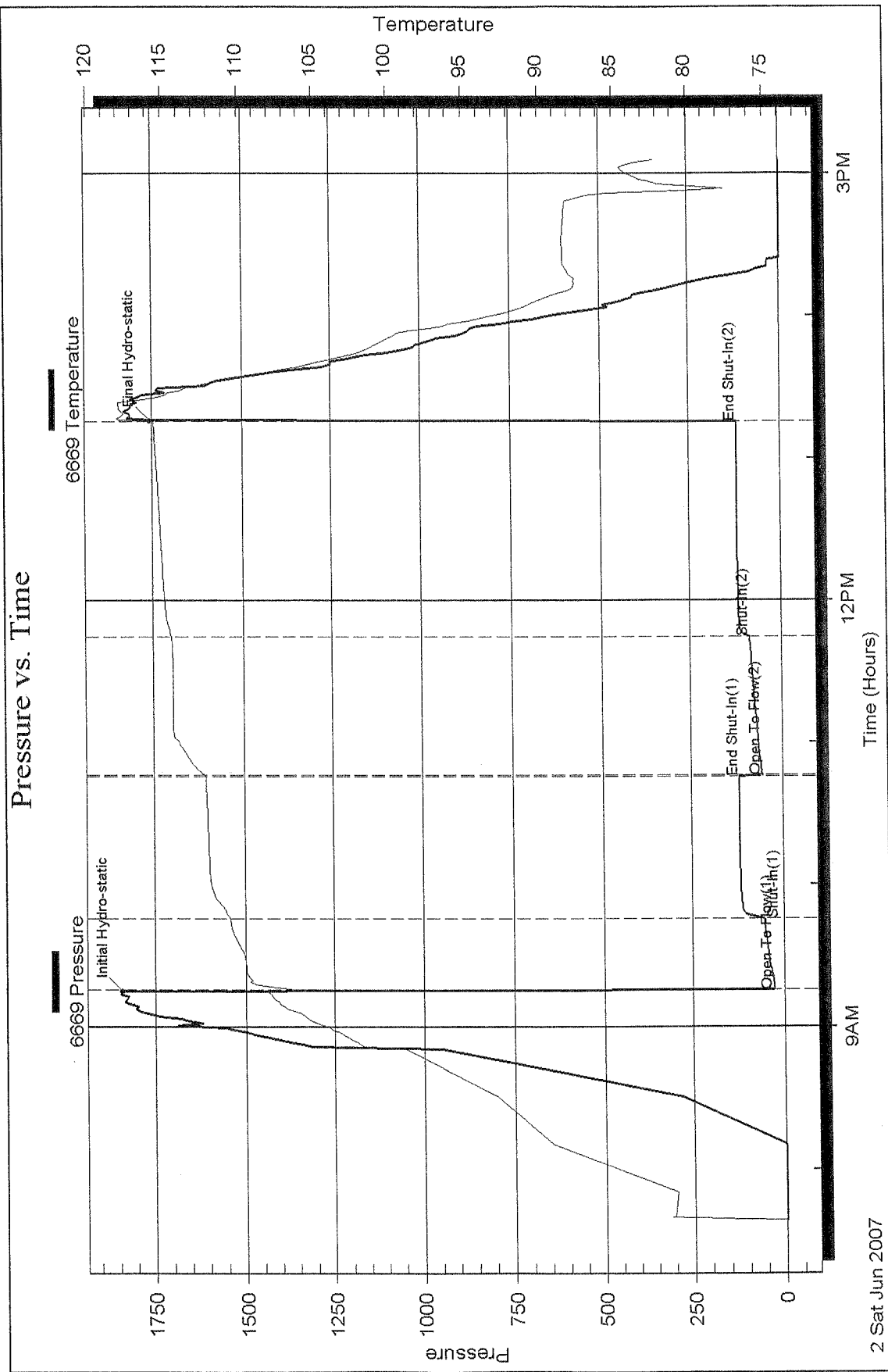
Serial #:

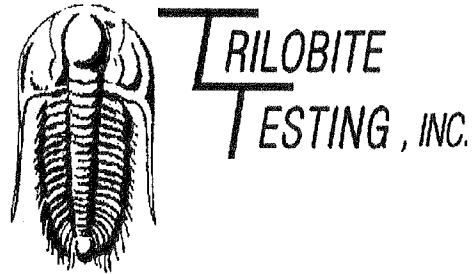
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

28 10 20 Rooks KS

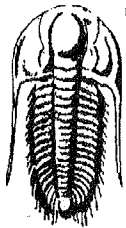
Romine # 2-28

Start Date: 2007.06.02 @ 20:31:31

End Date: 2007.06.03 @ 02:37:31

Job Ticket #: 28013 DST #: 6

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 Co

250 N Water Ste 300
Wichita KS 67202

ATTN: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28013

DST#: 6

Test Start: 2007.06.02 @ 20:31:31

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:10:01

Time Test Ended: 02:37:31

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3770.00 ft (KB) To 3775.00 ft (KB) (TVD)

Total Depth: 3775.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2177.00 ft (KB)

2172.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669 Inside

Press@RunDepth: 28.14 psig @ 3771.00 ft (KB)

Start Date: 2007.06.02

End Date: 2007.06.03

Start Time: 20:31:36

End Time: 02:37:30

Capacity: 7000.00 psig

Last Calib.: 2007.06.03

Time On Btm: 2007.06.02 @ 22:09:31

Time Off Btm: 2007.06.03 @ 01:10:01

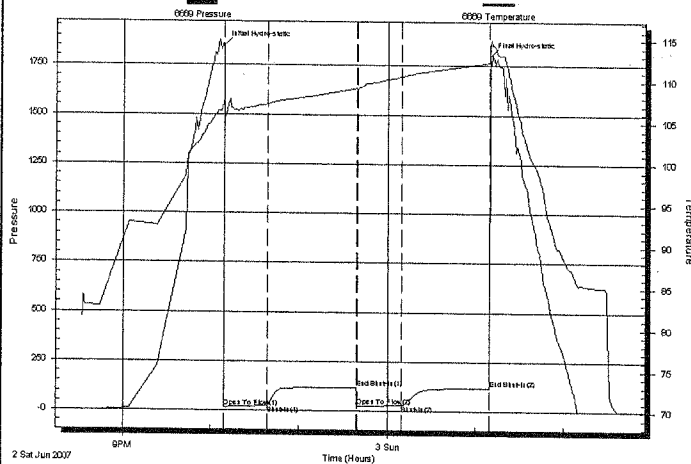
TEST COMMENT: IF Weak built to 1"

ISI Dead

FF Dead

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

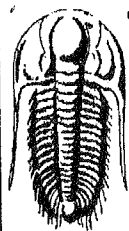
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.61	107.86	Initial Hydro-static
1	15.31	105.43	Open To Flow (1)
29	23.91	107.19	Shut-In(1)
90	116.57	109.17	End Shut-In(1)
90	24.65	108.99	Open To Flow (2)
120	28.14	110.57	Shut-In(2)
180	115.85	112.31	End Shut-In(2)
181	1802.18	114.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	MSW 50%W 50%M	0.12
3.00	Oil	0.01

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: Shauna Gunzelman

Romine # 2-28

28 10 20 Rooks KS

Job Ticket: 28013

DST#: 6

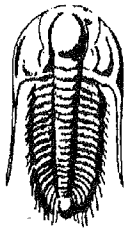
Test Start: 2007.06.02 @ 20:31:31

Tool Information

Drill Pipe:	Length: 3733.00 ft	Diameter: 3.80 inches	Volume: 52.36 bbl	Tool Weight:	2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	52.50 bbl	Tool Chased	41000.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3770.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	5.00 ft				
Tool Length:	33.00 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			3743.00	
Shut In Tool	5.00			3748.00	
Hydraulic tool	5.00			3753.00	
Jars	5.00			3758.00	
Safety Joint	3.00			3761.00	
Packer	4.00			3765.00	28.00 Bottom Of Top Packer
Packer	5.00			3770.00	
Stubb	1.00			3771.00	
Recorder	0.00	6669	Inside	3771.00	
Perforations	1.00			3772.00	
Bullnose	3.00			3775.00	5.00 Bottom Packers & Anchor

Total Tool Length: 33.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Romine # 2-28

250 N Water Ste 300
Wichita KS 67202

28 10 20 Rooks KS

Job Ticket: 28013

DST#: 6

ATTN: Shauna Gunzelman

Test Start: 2007.06.02 @ 20:31:31

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 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
25.00	MSW 50%W 50%M	0.123
3.00	Oil	0.015

Total Length: 28.00 ft

Total Volume: 0.138 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

