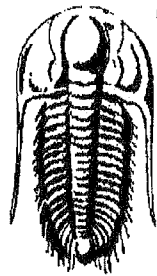


15-065-23303

30-7s-2lw



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Jason Alm

30 7 21 Graham KS

Holsmen #1

Start Date: 2007.05.01 @ 23:44:18

End Date: 2007.05.02 @ 05:59:03

Job Ticket #: 28248

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Jason Alm

Holsmen #1

30 7 21 Graham KS

Job Ticket: 28248

DST#: 1

Test Start: 2007.05.01 @ 23:44:18

GENERAL INFORMATION:

Formation: **Toronto**

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

Time Tool Opened: 01:27:48

Time Test Ended: 05:59:03

Test Type: **Conventional Bottom Hole**

Tester: **Michael Armbrister**

Unit No: **32**

Interval: **3332.00 ft (KB) To 3370.00 ft (KB) (TVD)**

Total Depth: **3370.00 ft (KB) (TVD)**

Hole Diameter: **6.75 inches** Hole Condition: **Fair**

Reference Elevations: **2174.00 ft (KB)**

2165.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: 6719

Inside

Press@RunDepth: **168.33 psig @ 3337.00 ft (KB)**

Start Date: **2007.05.01**

End Date:

2007.05.02

Capacity: **7000.00 psig**

Last Calib.: **2007.05.02**

Start Time: **23:44:20**

End Time:

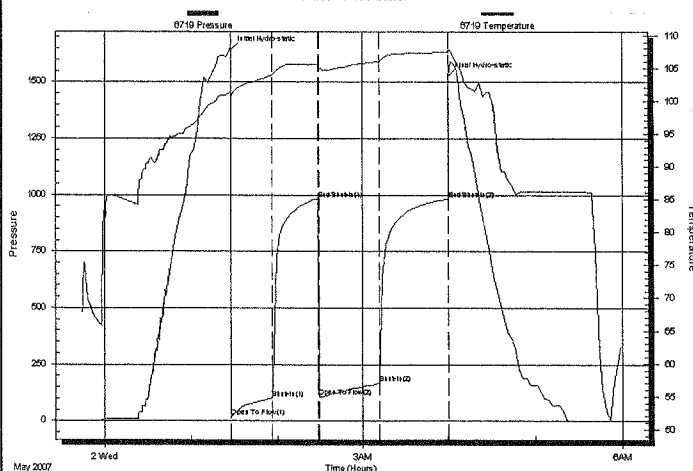
05:59:03

Time On Btm: **2007.05.02 @ 01:27:33**

Time Off Btm: **2007.05.02 @ 04:00:33**

TEST COMMENT: IF B of B 8m
ISI Built to 4 1/2 "
FF B of B 8m
FSI Built to 5 "

Pressure vs. Time



PRESSURE SUMMARY

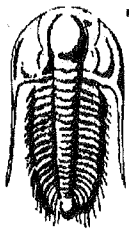
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.24	101.38	Initial Hydro-static
1	20.21	100.53	Open To Flow (1)
29	101.69	104.01	Shut-In (1)
61	983.40	105.56	End Shut-In (1)
62	108.98	105.30	Open To Flow (2)
105	168.33	106.02	Shut-In (2)
153	982.05	107.43	End Shut-In (2)
153	1527.77	107.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Gassy Mcut O 5%G 40%M 55%O	0.10
300.00	Gassy SMcutO 5%G 10%M 85%O	3.30
0.00	200 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28248

DST#: 1

ATTN: Jason Alm

Test Start: 2007.05.01 @ 23:44:18

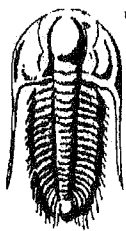
Tool Information

Drill Pipe:	Length: 3201.00 ft	Diameter: 3.80 inches	Volume: 44.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	45.49 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3332.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	59.00 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			3312.00	
Shut In Tool	5.00			3317.00	
Hydraulic tool	5.00			3322.00	
Packer	5.00			3327.00	21.00 Bottom Of Top Packer
Packer	5.00			3332.00	
Stubb	1.00			3333.00	
Perforations	4.00			3337.00	
Recorder	0.00	6719	Inside	3337.00	
Blank Spacing	30.00			3367.00	
Recorder	0.00	13221	Outside	3367.00	
Bullnose	3.00			3370.00	38.00 Bottom Packers & Anchor

Total Tool Length: 59.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28248

DST#: 1

ATTN: Jason Alm

Test Start: 2007.05.01 @ 23:44:18

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: lb/gal

Viscosity: sec/qt

Water Loss: 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:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Gassy Mcut O 5%G 40%M 55%O	0.098
300.00	Gassy SMcutO 5%G 10%M 85%O	3.297
0.00	200 GIP	0.000

Total Length: 320.00 ft Total Volume: 3.395 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

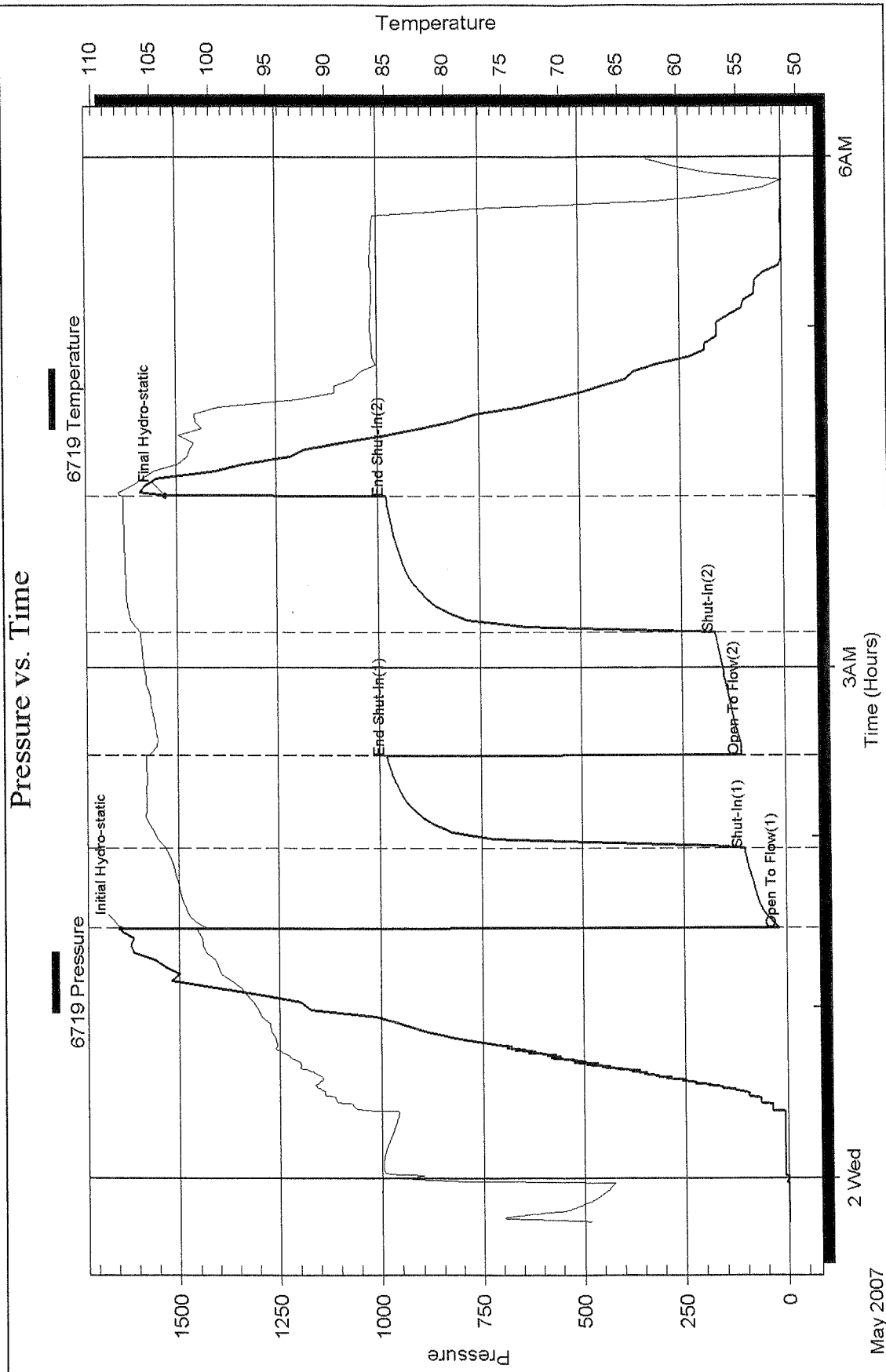
Serial #:

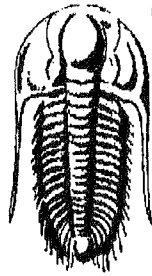
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Jason Alm

30 7 21 Graham KS

Holsmen #1

Start Date: 2007.05.02 @ 11:52:16

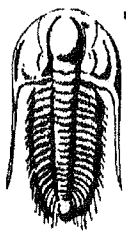
End Date: 2007.05.02 @ 18:09:16

Job Ticket #: 28249 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

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28249

DST#: 2

ATTN: Jason Alm

Test Start: 2007.05.02 @ 11:52:16

GENERAL INFORMATION:

Formation: **LKC- A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:14:16

Time Test Ended: 18:09:16

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 32

Interval: **3369.00 ft (KB) To 3386.00 ft (KB) (TVD)**

Total Depth: 3386.00 ft (KB) (TVD)

Hole Diameter: 6.75 inches Hole Condition: Fair

Reference Elevations: 2174.00 ft (KB)

2165.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6719

Inside

Press@RunDepth: 363.31 psig @ 3371.00 ft (KB)

Start Date: 2007.05.02

End Date:

2007.05.02

Capacity: 7000.00 psig

Last Calib.: 2007.05.02

Start Time: 11:52:18

End Time:

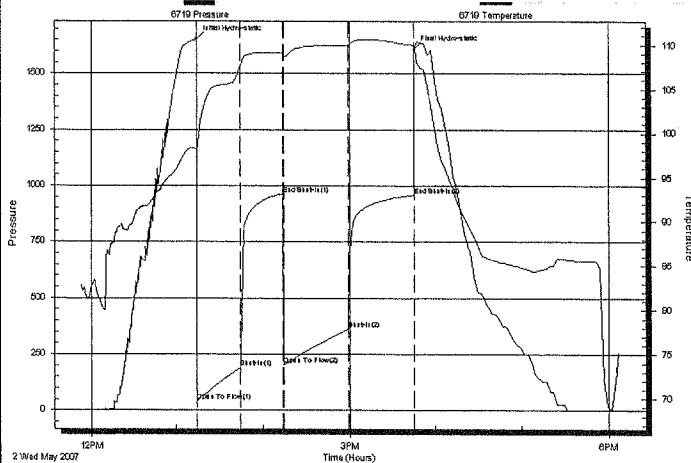
18:09:16

Time On Btm: 2007.05.02 @ 13:14:01

Time Off Btm: 2007.05.02 @ 15:45:31

TEST COMMENT: IF B of B 1m
ISI B of B 10m
FF B of B 3m
FSI B of B 10m

Pressure vs. Time



PRESSURE SUMMARY

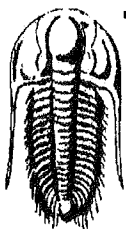
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.81	98.20	Initial Hydro-static
1	39.00	97.79	Open To Flow (1)
31	189.45	107.64	Shut-In(1)
60	961.83	109.06	End Shut-In(1)
61	201.28	108.80	Open To Flow (2)
105	363.31	110.01	Shut-In(2)
152	958.49	109.98	End Shut-In(2)
152	1608.08	110.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
154.00	SMCO 5%M 20%G 75%O	1.07
1000.00	GCO 20%G 80%O	14.03

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28249

DST#: 2

ATTN: Jason Alm

Test Start: 2007.05.02 @ 11:52:16

Tool Information

Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 46.32 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3369.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 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			3349.00	
Shut In Tool	5.00			3354.00	
Hydraulic tool	5.00			3359.00	
Packer	5.00			3364.00	21.00 Bottom Of Top Packer
Packer	5.00			3369.00	
Stubb	1.00			3370.00	
Perforations	1.00			3371.00	
Recorder	0.00	6719	Inside	3371.00	
Perforations	12.00			3383.00	
Recorder	0.00	13221	Outside	3383.00	
Bullnose	3.00			3386.00	17.00 Bottom Packers & Anchor

Total Tool Length: 38.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28249

DST#: 2

ATTN: Jason Alm

Test Start: 2007.05.02 @ 11:52:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbl

Water Loss: 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
154.00	SMCGO 5%M 20%G 75%O	1.067
1000.00	GCO 20%G 80%O	14.027

Total Length: 1154.00 ft

Total Volume: 15.094 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

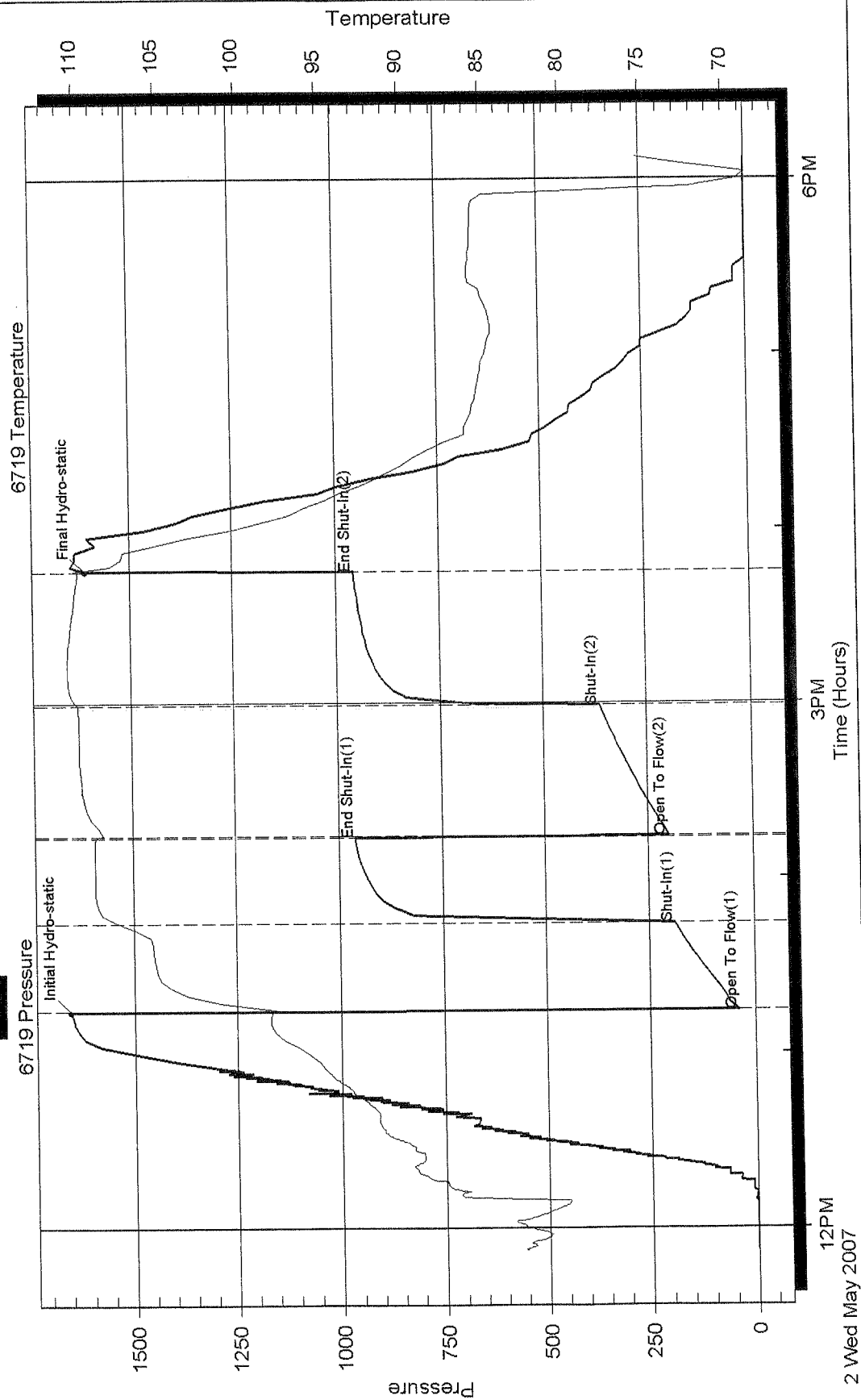
Serial #:

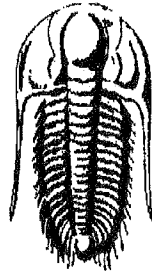
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Jason Alm

30 7 21 Graham KS

Holsmen #1

Start Date: 2007.05.02 @ 00:45:50

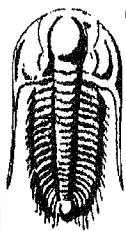
End Date: 2007.05.02 @ 07:09:50

Job Ticket #: 28250 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

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28250

DST#: 3

ATTN: Jason Alm

Test Start: 2007.05.02 @ 00:45:50

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:42:20

Time Test Ended: 07:09:50

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 32

Interval: **3394.00 ft (KB) To 3420.00 ft (KB) (TVD)**

Total Depth: 3420.00 ft (KB) (TVD)

Hole Diameter: 6.75 inches Hole Condition: Fair

Reference Elevations: 2174.00 ft (KB)

2165.00 ft (CF)

KB to GRVCF: 9.00 ft

Serial #: 6719

Inside

Press@RunDepth: 445.09 psig @ 3396.00 ft (KB)

Start Date: 2007.05.02

End Date:

2007.05.02

Start Time: 00:45:52

End Time:

07:09:50

Capacity: 7000.00 psig

Last Calib.: 2007.05.03

Time On Btm: 2007.05.02 @ 02:41:50

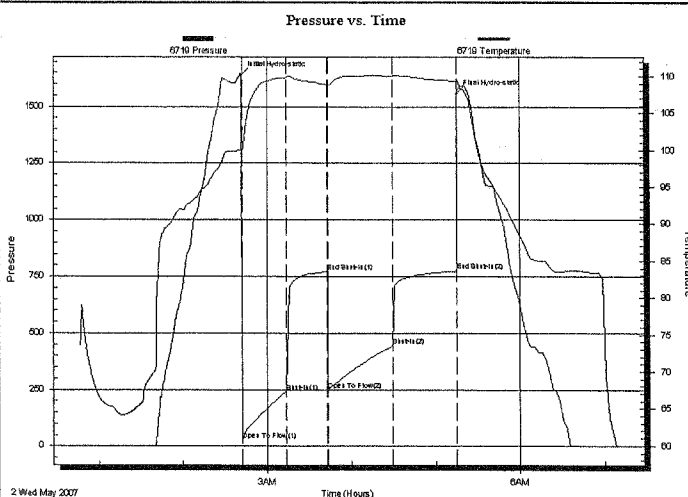
Time Off Btm: 2007.05.02 @ 05:15:20

TEST COMMENT: IF B of B 5m

ISI Dead

FF B of B 8m

FSI Dead



PRESSURE SUMMARY

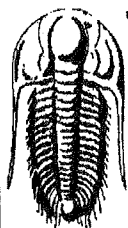
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.03	100.03	Initial Hydro-static
1	26.95	99.73	Open To Flow (1)
32	241.40	109.81	Shut-In (1)
61	772.60	108.85	End Shut-In (1)
62	246.81	108.66	Open To Flow (2)
108	445.09	110.05	Shut-In (2)
153	773.87	109.28	End Shut-In (2)
154	1557.18	109.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Clean oil	0.01
930.00	SW	11.97

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28250

DST#: 3

ATTN: Jason Alm

Test Start: 2007.05.02 @ 00:45:50

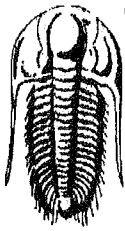
Tool Information

Drill Pipe:	Length: 3262.00 ft	Diameter: 3.80 inches	Volume: 45.76 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume:	46.35 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3394.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	47.00 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			3374.00	
Shut In Tool	5.00			3379.00	
Hydraulic tool	5.00			3384.00	
Packer	5.00			3389.00	21.00 Bottom Of Top Packer
Packer	5.00			3394.00	
Stubb	1.00			3395.00	
Perforations	1.00			3396.00	
Recorder	0.00	6719	Inside	3396.00	
Perforations	21.00			3417.00	
Recorder	0.00	13221	Outside	3417.00	
Bullnose	3.00			3420.00	26.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28250

DST#: 3

ATTN: Jason Alm

Test Start: 2007.05.02 @ 00:45:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbl

Water Loss: 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
2.00	Clean oil	0.010
930.00	SW	11.971

Total Length: 932.00 ft

Total Volume: 11.981 bbl

Num Fluid Samples: 0

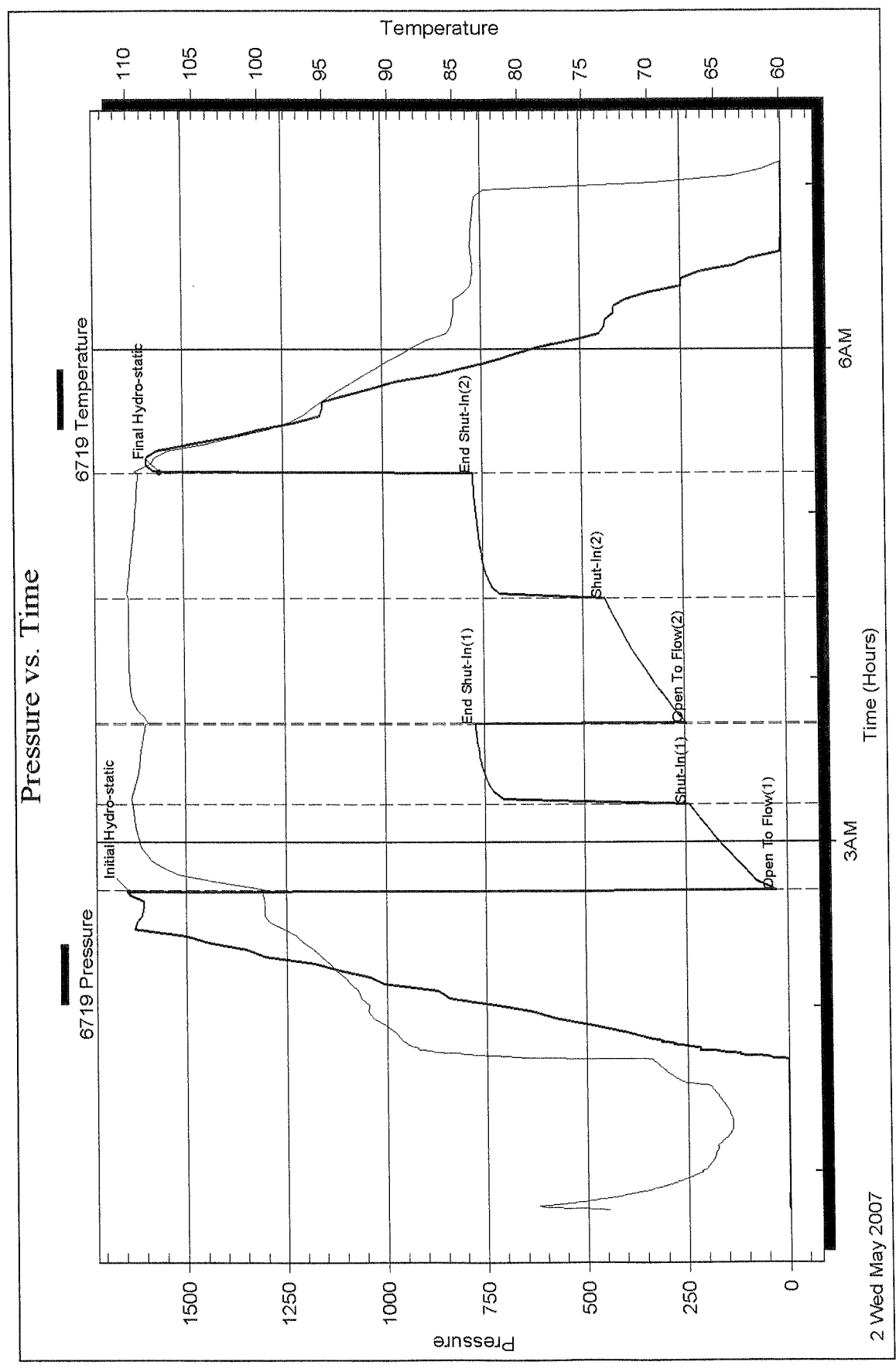
Num Gas Bombs: 0

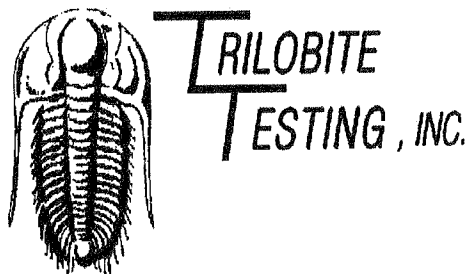
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Jason Alm

30 7 21 Graham KS

Holsmen #1

Start Date: 2007.05.03 @ 12:36:28

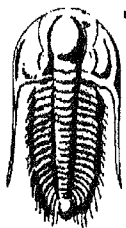
End Date: 2007.05.03 @ 18:24:13

Job Ticket #: 28287 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

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28287

DST#: 4

ATTN: Jason Alm

Test Start: 2007.05.03 @ 12:36:28

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:52:43

Time Test Ended: 18:24:13

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 32

Interval: **3417.00 ft (KB) To 3435.00 ft (KB) (TVD)**

Total Depth: 3370.00 ft (KB) (TVD)

Hole Diameter: 6.75 inches Hole Condition: Fair

Reference Elevations: 2174.00 ft (KB)

2165.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6719 Inside

Press@RunDepth: 136.84 psig @ 3419.00 ft (KB)

Start Date: 2007.05.03

End Date:

2007.05.03

Capacity: 7000.00 psig

Last Calib.: 2007.05.03

Start Time: 12:36:30

End Time:

18:24:13

Time On Btm: 2007.05.03 @ 13:52:28

Time Off Btm: 2007.05.03 @ 16:24:58

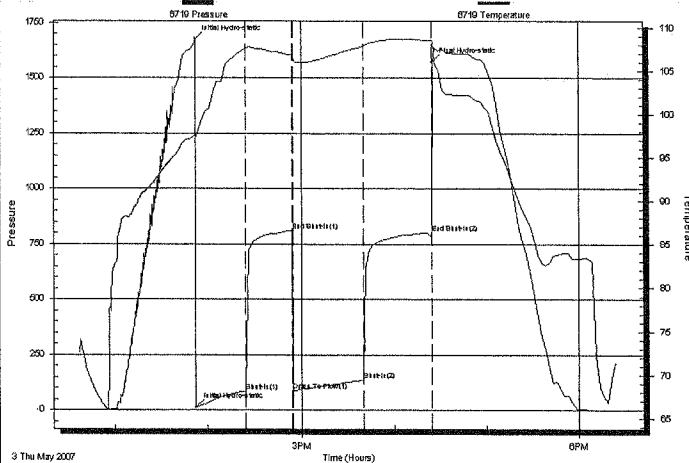
TEST COMMENT: IF B of B 28m

ISI Dead

FF Built to 10 "

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

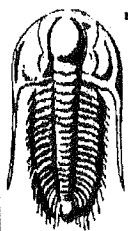
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.27	97.56	Initial Hydro-static
1	13.99	97.23	Initial Hydro-static
32	85.92	107.57	Shut-In(1)
62	811.86	106.85	End Shut-In(1)
62	88.08	106.41	Open To Flow(1)
108	136.84	107.83	Shut-In(2)
152	802.33	108.51	End Shut-In(2)
153	1574.19	108.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
275.00	SW	2.76
1.00	Clean Oil	0.01

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28287

DST#: 4

ATTN: Jason Alm

Test Start: 2007.05.03 @ 12:36:28

Tool Information

Drill Pipe:	Length: 3290.00 ft	Diameter: 3.80 inches	Volume: 46.15 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	45000.00 lb
		Total Volume:	46.74 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3417.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	39.00 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			3397.00	
Shut In Tool	5.00			3402.00	
Hydraulic tool	5.00			3407.00	
Packer	5.00			3412.00	21.00 Bottom Of Top Packer
Packer	5.00			3417.00	
Stubb	1.00			3418.00	
Perforations	1.00			3419.00	
Recorder	0.00	6719	Inside	3419.00	
Perforations	13.00			3432.00	
Recorder	0.00	13221	Outside	3432.00	
Bullnose	3.00			3435.00	18.00 Bottom Packers & Anchor

Total Tool Length: 39.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28287

DST#: 4

ATTN: Jason Alm

Test Start: 2007.05.03 @ 12:36:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: 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
275.00	SW	2.764
1.00	Clean Oil	0.014

Total Length: 276.00 ft

Total Volume: 2.778 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

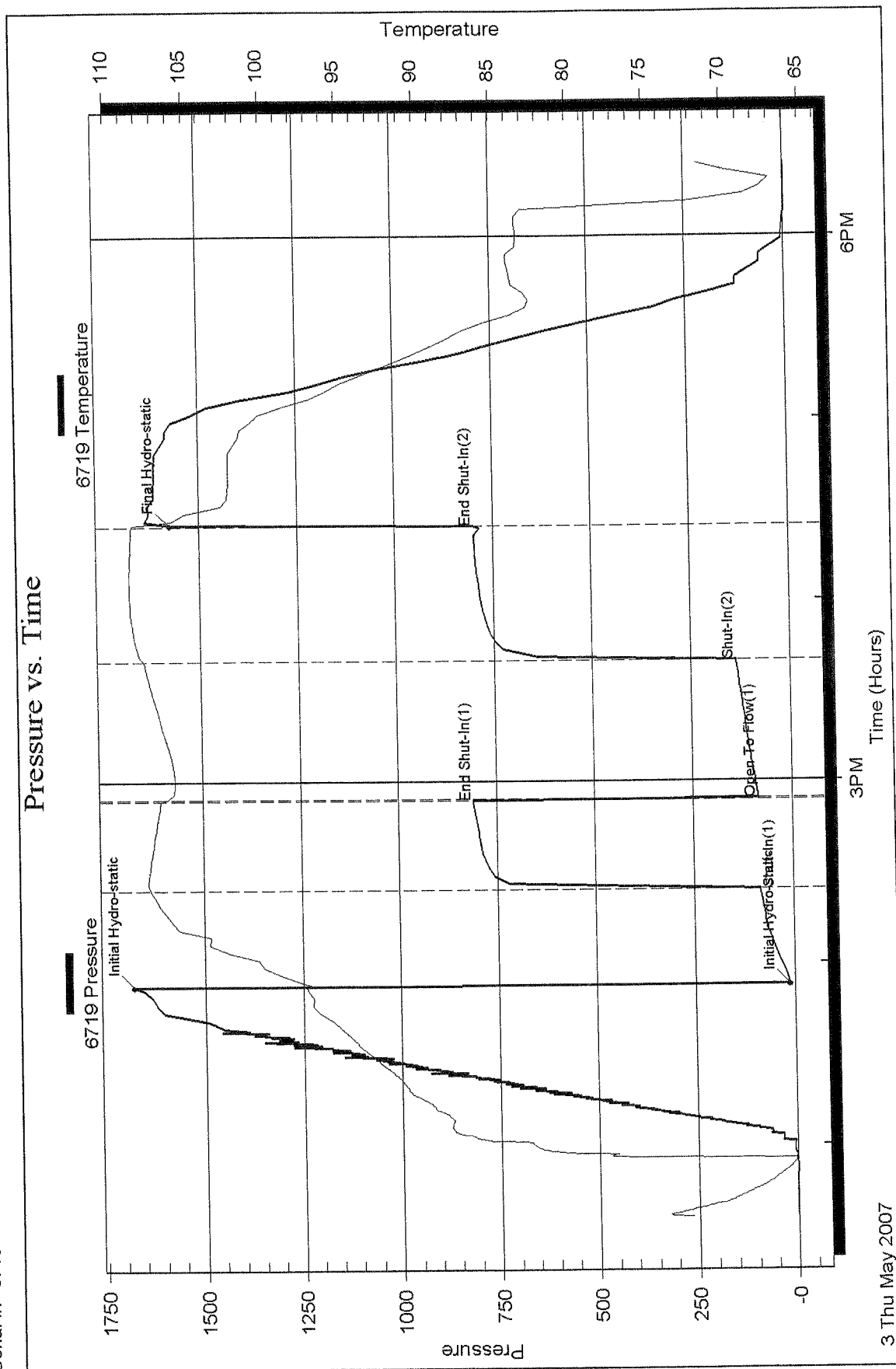
Serial #:

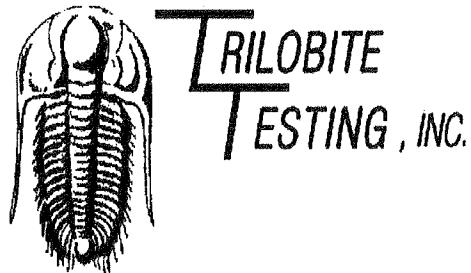
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Jason Alm

30 7 21 Graham KS

Holsmen #1

Start Date: 2007.05.04 @ 00:10:19

End Date: 2007.05.04 @ 06:33:34

Job Ticket #: 28288 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

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Jason Alm

Holsmen #1

30 7 21 Graham KS

Job Ticket: 28288

DST#: 5

Test Start: 2007.05.04 @ 00:10:19

GENERAL INFORMATION:

Formation: **LKC - EF**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:07:49

Time Test Ended: 06:33:34

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 32

Interval: **3440.00 ft (KB) To 3462.00 ft (KB) (TVD)**

Total Depth: 3462.00 ft (KB) (TVD)

Hole Diameter: 6.75 inches Hole Condition: Fair

Reference Elevations: 2174.00 ft (KB)

2165.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6719 Inside

Press@RunDepth: 459.23 psig @ 3442.00 ft (KB)

Start Date: 2007.05.04

End Date:

2007.05.04

Start Time: 00:10:21

End Time:

06:33:34

Capacity: 7000.00 psig

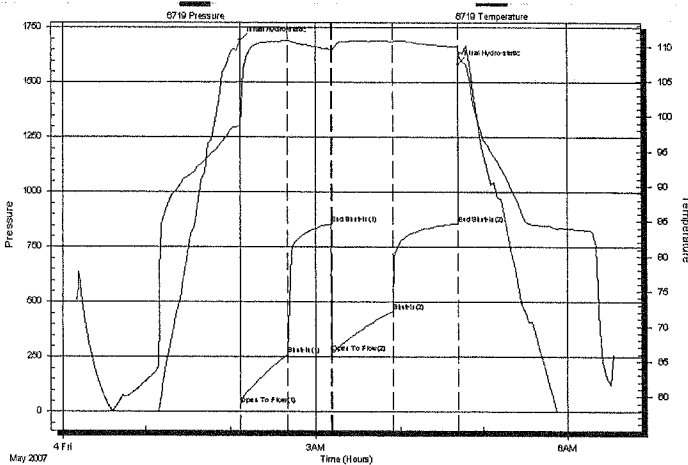
Last Calib.: 2007.05.04

Time On Btm: 2007.05.04 @ 02:07:34

Time Off Btm: 2007.05.04 @ 04:41:49

TEST COMMENT: IF B of B 4m
ISI Weak surface blow
FF B of B 6m
FSI Weak surface blow

Pressure vs. Time



PRESSURE SUMMARY

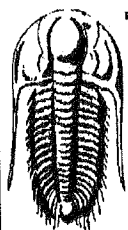
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.14	98.71	Initial Hydro-static
1	33.58	98.34	Open To Flow (1)
33	260.11	110.73	Shut-In (1)
64	855.52	109.50	End Shut-In (1)
64	267.35	109.37	Open To Flow (2)
107	459.23	110.70	Shut-In (2)
154	858.26	109.93	End Shut-In (2)
155	1583.91	110.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
940.00	SW	12.09
10.00	Clean oil	0.14

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28288

DST#: 5

ATTN: Jason Alm

Test Start: 2007.05.04 @ 00:10:19

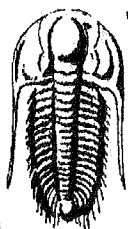
Tool Information

Drill Pipe:	Length: 3320.00 ft	Diameter: 3.80 inches	Volume: 46.57 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	43000.00 lb
		Total Volume:	47.16 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3440.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	43.00 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			3420.00	
Shut In Tool	5.00			3425.00	
Hydraulic tool	5.00			3430.00	
Packer	5.00			3435.00	21.00 Bottom Of Top Packer
Packer	5.00			3440.00	
Stubb	1.00			3441.00	
Perforations	1.00			3442.00	
Recorder	0.00	6719	Inside	3442.00	
Perforations	17.00			3459.00	
Recorder	0.00	13221	Outside	3459.00	
Bullnose	3.00			3462.00	22.00 Bottom Packers & Anchor

Total Tool Length: 43.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28288

DST#: 5

ATTN: Jason Alm

Test Start: 2007.05.04 @ 00:10:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: sec/qt

Cushion Volume:

bbl

Water Loss: 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
940.00	SW	12.093
10.00	Clean oil	0.140

Total Length: 950.00 ft Total Volume: 12.233 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

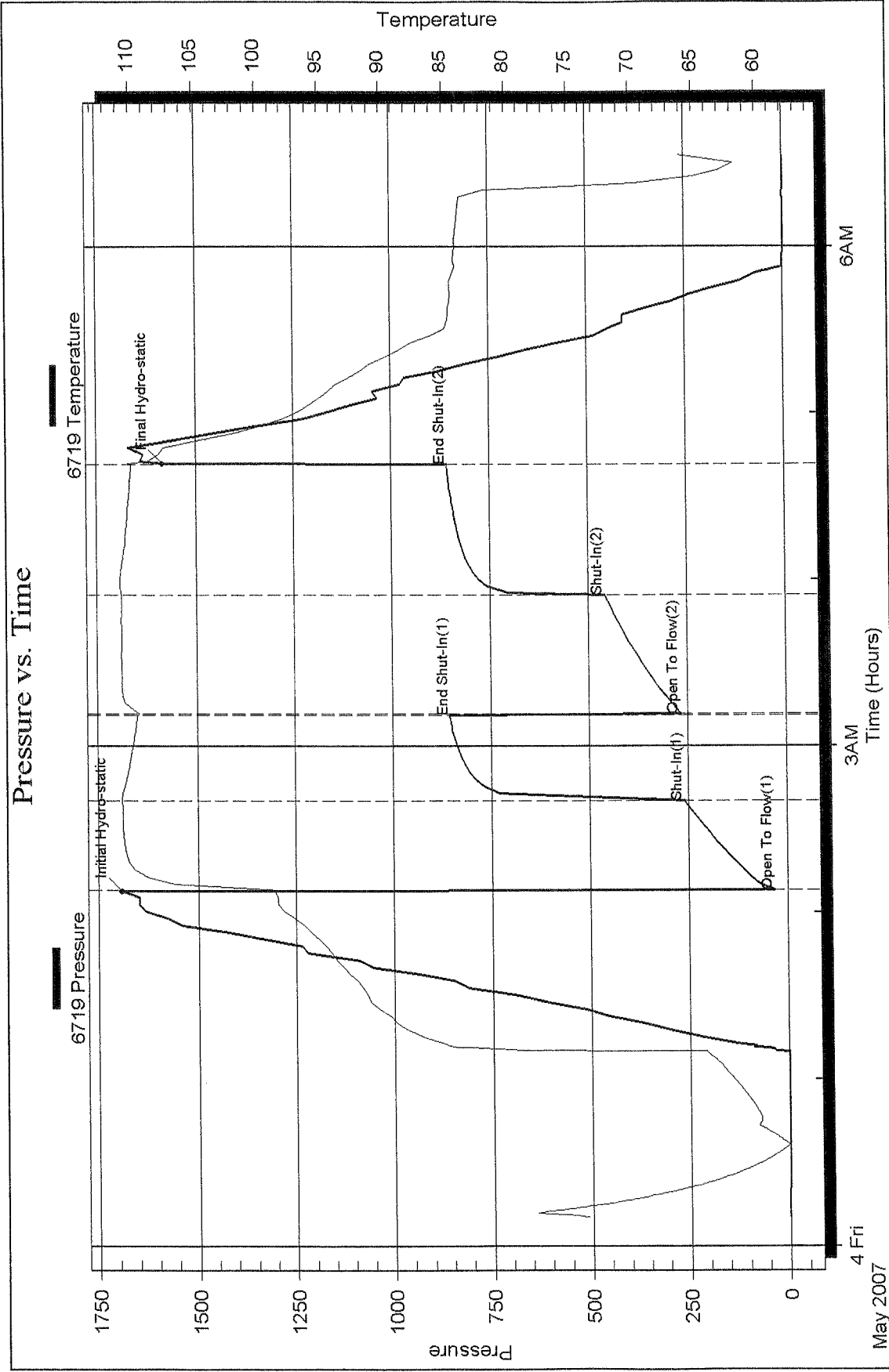
Serial #:

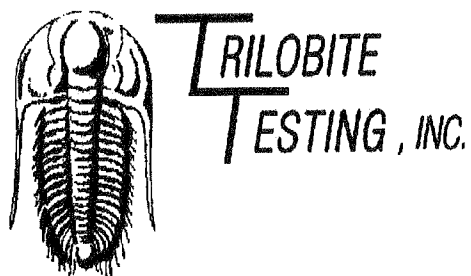
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Jason Alm

30 7 21 Graham KS

Holsmen #1

Start Date: 2007.05.04 @ 05:23:14

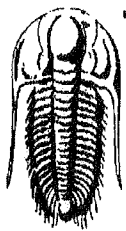
End Date: 2007.05.04 @ 11:58:14

Job Ticket #: 28289 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

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Jason Alm

Holsmen #1

30 7 21 Graham KS

Job Ticket: 28289

DST#: 6

Test Start: 2007.05.04 @ 05:23:14

GENERAL INFORMATION:

Formation: **"H-I-J-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:11:59

Time Test Ended: 11:58:14

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 32

Interval: **3486.00 ft (KB) To 3565.00 ft (KB) (TVD)**

Total Depth: 3565.00 ft (KB) (TVD)

Hole Diameter: 6.75 inches Hole Condition: Good

Reference Elevations: 2174.00 ft (KB)

2165.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6719

Inside

Press@RunDepth: 139.35 psig @ 3490.00 ft (KB)

Start Date: 2007.05.04

End Date:

2007.05.04

Capacity: 7000.00 psig

Last Calib.: 2007.05.05

Start Time: 05:23:16

End Time:

11:58:14

Time On Btm: 2007.05.04 @ 07:11:44

Time Off Btm: 2007.05.04 @ 10:13:44

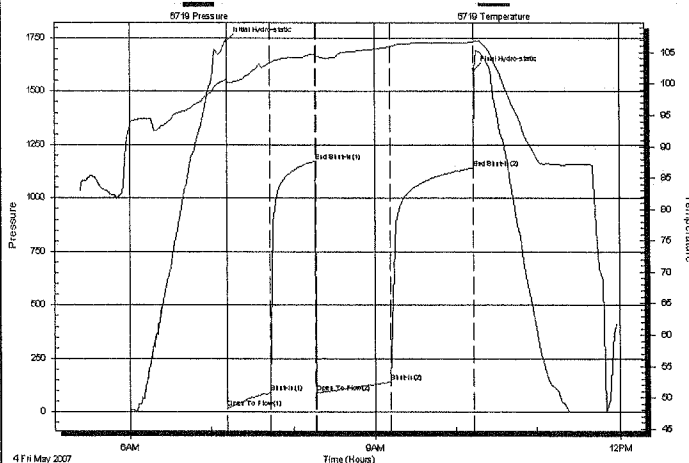
TEST COMMENT: IFP Good Blow Built to 8-1/2 "

ISI Dead

FFP Good Blow BOB in 45 Min

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

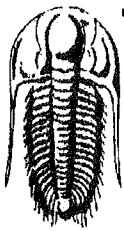
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1734.48	100.63	Initial Hydro-static
1	17.38	100.32	Open To Flow (1)
32	89.65	103.26	Shut-In(1)
65	1173.23	104.62	End Shut-In(1)
65	91.71	104.40	Open To Flow (2)
120	139.35	105.87	Shut-In(2)
182	1142.09	106.60	End Shut-In(2)
182	1601.36	106.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	Watery Mud 10%W 90%M	2.41
15.00	Free Oil	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28289

DST#: 6

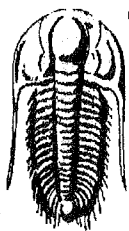
ATTN: Jason Alm

Test Start: 2007.05.04 @ 05:23:14

Tool Information

Drill Pipe:	Length: 3350.00 ft	Diameter: 3.80 inches	Volume: 46.99 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	42000.00 lb
		Total Volume:	47.58 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3486.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	79.00 ft				
Tool Length:	100.00 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			3466.00	
Shut In Tool	5.00			3471.00	
Hydraulic tool	5.00			3476.00	
Packer	5.00			3481.00	21.00 Bottom Of Top Packer
Packer	5.00			3486.00	
Stubb	1.00			3487.00	
Perforations	3.00			3490.00	
Recorder	0.00	6719	Inside	3490.00	
Blank Spacing	62.00			3552.00	
Perforations	10.00			3562.00	
Recorder	0.00	13221	Outside	3562.00	
Bullnose	3.00			3565.00	79.00 Bottom Packers & Anchor
Total Tool Length:		100.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Holsmen #1

PO Box 352
Russell KS 67665

30 7 21 Graham KS

Job Ticket: 28289

DST#: 6

ATTN: Jason Alm

Test Start: 2007.05.04 @ 05:23:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	Watery Mud 10%W 90%M	2.414
15.00	Free Oil	0.210

Total Length: 265.00 ft

Total Volume: 2.624 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

