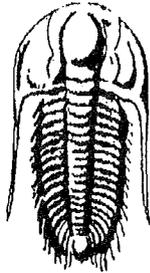


15-163-23738

7-7s-20w

IND



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

201 S Main
Bogue Ks 67625

ATTN: Mike Davignon

7 7 20 Rooks KS

Loeffler #7

Start Date: 2009.05.25 @ 03:20:57

End Date: 2009.05.25 @ 10:41:42

Job Ticket #: 35197 DST #: 1

15-163-23738-0000

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Blake Exploration

Loeffler #7

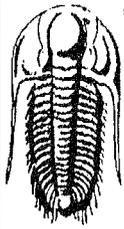
7 7 20 Rooks KS

DST # 1

Toronto, LKC "A-C"

2009.05.25

87-87,20w



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blake Exploration

Loeffler #7

201 S Main
Bogue Ks 67625

7 7 20 Rooks KS

Job Ticket: 35197

DST#: 1

ATTN: Mike Davignon

Test Start: 2009.05.25 @ 03:20:57

GENERAL INFORMATION:

Formation: **Toronto, LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:30:12

Time Test Ended: 10:41:42

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 44

Interval: **3325.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Reference Elevations: 2159.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 6719

Press@RunDepth: 100.20 psig @ ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.05.25

End Date: 2009.05.25

Last Calib.: 2009.05.25

Start Time: 03:21:02

End Time: 10:41:41

Time On Btm: 2009.05.25 @ 05:28:57

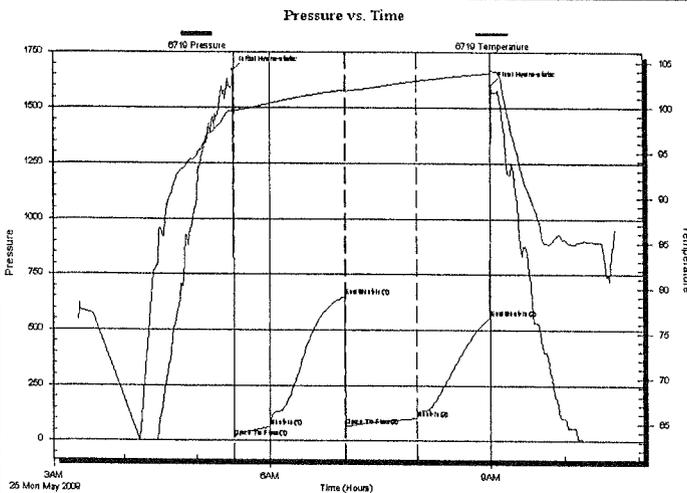
Time Off Btm: 2009.05.25 @ 09:00:41

TEST COMMENT: IF- BOB in 28min

IS- No blow

FF- 7in Blow

FS- No blow



PRESSURE SUMMARY

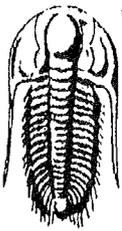
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.23	99.60	Initial Hydro-static
2	16.56	99.50	Open To Flow (1)
31	62.07	100.42	Shut-In(1)
91	650.78	101.93	End Shut-In(1)
92	67.16	101.81	Open To Flow (2)
151	100.20	102.93	Shut-In(2)
211	555.24	103.81	End Shut-In(2)
212	1603.11	104.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSOCM 95%M 5%O	1.41
60.00	VSOCM 10%O 90%M trace of water	0.84

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blake Exploration

Loeffler #7

201 S Main
Bogue Ks 67625

7 7 20 Rooks KS

Job Ticket: 35197

DST#: 1

ATTN: Mike Davignon

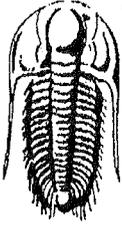
Test Start: 2009.05.25 @ 03:20:57

Tool Information

Drill Pipe:	Length: 3292.00 ft	Diameter: 3.80 inches	Volume: 46.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3325.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	126.00 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			3305.00	
Shut In Tool	5.00			3310.00	
Hydraulic tool	5.00			3315.00	
Packer	5.00			3320.00	21.00 Bottom Of Top Packer
Packer	5.00			3325.00	
Stubb	1.00			3326.00	
Recorder	0.00	6669	Inside	3326.00	
Recorder	0.00	6672	Inside	3326.00	
Perforations	4.00			3330.00	
Change Over Sub	1.00			3331.00	
Blank Spacing	93.00			3424.00	
Change Over Sub	1.00			3425.00	
Perforations	2.00			3427.00	
Bullnose	3.00			3430.00	105.00 Bottom Packers & Anchor
Total Tool Length:	126.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration

Loeffler #7

201 S Main
Bogue Ks 67625

7 7 20 Rooks KS

Job Ticket: 35197

DST#: 1

ATTN: Mike Davignon

Test Start: 2009.05.25 @ 03:20:57

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: 6.79 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
120.00	VSOCM 95%M 5%O	1.410
60.00	VSOCM 10%O 90%M trace of water	0.842

Total Length: 180.00 ft

Total Volume: 2.252 bbl

Num Fluid Samples: 0

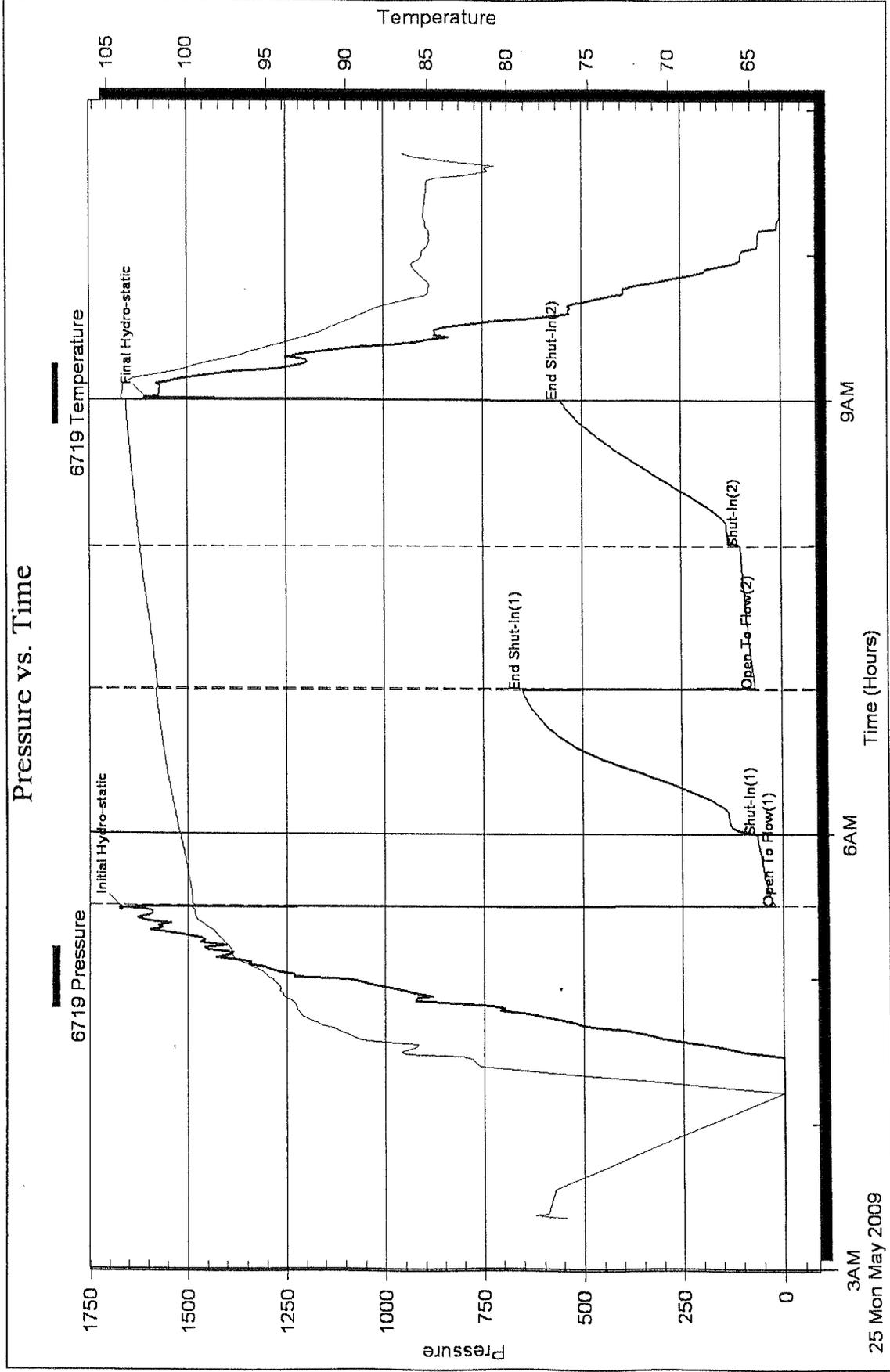
Num Gas Bombs: 0

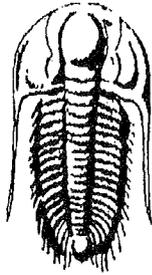
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Blake Exploration**

201 S Main
Bogue Ks 67625

ATTN: Mike Davignon

7 7 20 Rooks KS

Loeffler #7

Start Date: 2009.05.25 @ 16:59:11

End Date: 2009.05.26 @ 00:17:41

Job Ticket #: 35198 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

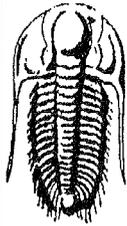
Blake Exploration

Loeffler #7

7 7 20 Rooks KS

DST # 2

2009.05.25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Blake Exploration

Loeffler #7

201 S Main
Bogue Ks 67625

7 7 20 Rooks KS

Job Ticket: 35198

DST#: 2

ATTN: Mike Davignon

Test Start: 2009.05.25 @ 16:59:11

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:07:41

Time Test Ended: 00:17:41

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 44

Interval: 3430.00 ft (KB) To 3480.00 ft (KB) (TVD)

Total Depth: 3480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2159.00 ft (KB)

2154.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Press@RunDepth: 142.98 psig @ ft (KB)

Start Date: 2009.05.25 End Date: 2009.05.26

Start Time: 16:59:16 End Time: 00:17:40

Capacity: 7000.00 psig

Last Calib.: 2009.05.26

Time On Btm: 2009.05.25 @ 19:06:26

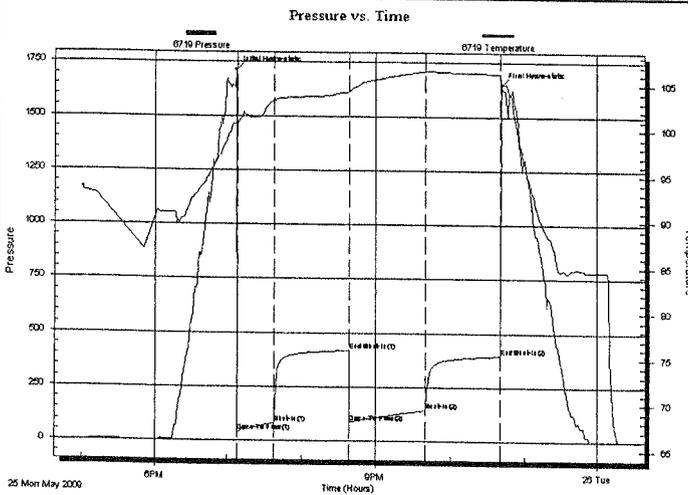
Time Off Btm: 2009.05.25 @ 22:40:56

TEST COMMENT: IF- BOB in 16min

IS- No blow

FF- 6.5in blow

FS- No blow



PRESSURE SUMMARY

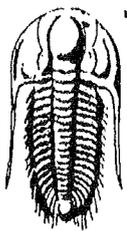
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.75	100.60	Initial Hydro-static
2	41.45	100.45	Open To Flow (1)
32	81.82	103.21	Shut-In(1)
92	419.53	104.20	End Shut-In(1)
93	86.52	104.20	Open To Flow (2)
154	142.98	106.49	Shut-In(2)
214	395.50	106.23	End Shut-In(2)
215	1645.60	105.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WCOCM 5%O 45%W 50%M	1.41
65.00	OCM 15%O 85%M	0.91
15.00	Free Oil 95%O 5%G	0.21

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Blake Exploration

Loeffler #7

201 S Main
Bogue Ks 67625

7 7 20 Rooks KS

Job Ticket: 35198

DST#: 2

ATTN: Mke Davignon

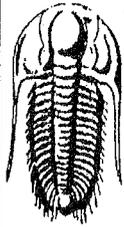
Test Start: 2009.05.25 @ 16:59:11

Tool Information

Drill Pipe:	Length: 3383.00 ft	Diameter: 3.80 inches	Volume: 47.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: - bbl	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3430.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 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			3410.00	
Shut In Tool	5.00			3415.00	
Hydraulic tool	5.00			3420.00	
Packer	5.00			3425.00	21.00 Bottom Of Top Packer
Packer	5.00			3430.00	
Stubb	1.00			3431.00	
Recorder	0.00	6669	Inside	3431.00	
Recorder	0.00	6672	Inside	3431.00	
Perforations	11.00			3442.00	
Change Over Sub	1.00			3443.00	
Blank Spacing	31.00			3474.00	
Change Over Sub	1.00			3475.00	
Perforations	2.00			3477.00	
Bullnose	3.00			3480.00	50.00 Bottom Packers & Anchor
Total Tool Length:	71.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Blake Exploration

Loeffler #7

201 S Main
Bogue Ks 67625

7 7 20 Rooks KS

Job Ticket: 35198

DST#: 2

ATTN: Mke Davignon

Test Start: 2009.05.25 @ 16:59:11

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 6.78 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 31 deg API
Water Salinity: 29000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WCOCM 5%O 45%W 50%M	1.410
65.00	OCM 15%O 85%M	0.912
15.00	Free Oil 95%O 5%G	0.210

Total Length: 200.00 ft Total Volume: 2.532 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

