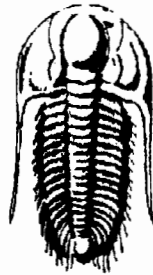


15-193-20720

23-10s-32w

kg

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278-3188

ATTN: Jeff Christian

³²
23 10 23 Thomas KS

Harrison #1

Start Date: 2007.04.13 @ 09:51:44

End Date: 2007.04.13 @ 17:05:53

Job Ticket #: 26455 DST #: 1

Ritchie Exploration Inc

Harrison #1

23 10 23³² Thomas KS

DST # 1

E

2007.04.13

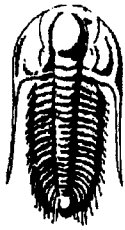
Range is 32w, not 23w

**KCC
AUG 02 2007
CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188
ATTN: Jeff Christian

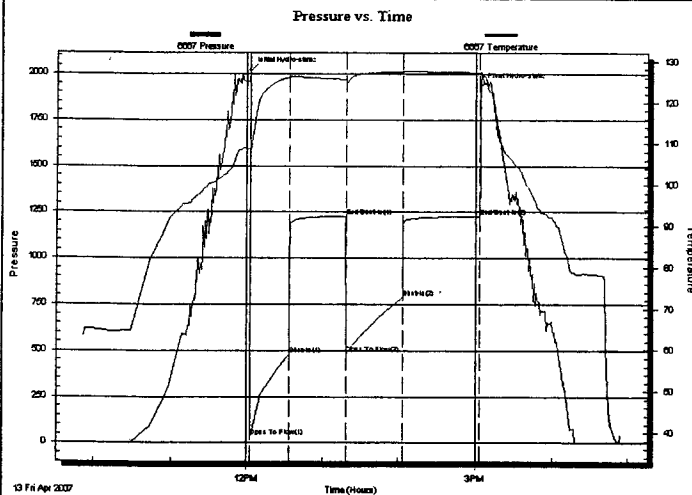
Harrison #1
23 10 23 Thomas KS
Job Ticket: 26455 **DST#: 1**
Test Start: 2007.04.13 @ 09:51:44

GENERAL INFORMATION:

Formation: **E**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 12:03:24
Time Test Ended: 17:05:53
Interval: **4126.00 ft (KB) To 4148.00 ft (KB) (TVD)**
Total Depth: **4148.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **40**
Reference Elevations: **3070.00 ft (KB)**
3060.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 6667 **Inside**
Press@RunDepth: **788.20 psig @ 4127.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2007.04.13** End Date: **2007.04.13** Last Calib.: **2007.04.13**
Start Time: **09:51:44** End Time: **16:54:53** Time On Btm: **2007.04.13 @ 12:02:54**
Time Off Btm: **2007.04.13 @ 15:04:09**

TEST COMMENT: BOB in 4 min.
No return
BOB in 5 1/2 min.
No return



PRESSURE SUMMARY

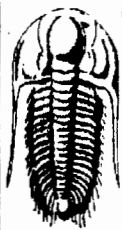
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2017.67	108.84	Initial Hydro-static
1	35.34	108.30	Open To Flow (1)
31	477.86	126.02	Shut-In(1)
76	1228.19	125.53	End Shut-In(1)
76	483.01	125.29	Open To Flow (2)
121	788.20	127.49	Shut-In(2)
181	1227.95	127.22	End Shut-In(2)
182	1935.14	127.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1340.00	Water 100%W	13.97
90.00	MCW 35%M 65%W	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188
ATTN: Jeff Christian

Harrison #1
23 10 23 Thomas KS
Job Ticket: 26455 **DST#: 1**
Test Start: 2007.04.13 @ 09:51:44

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	63000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.75 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

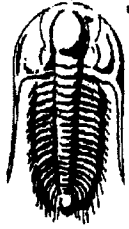
Length ft	Description	Volume bbl
1340.00	Water 100%W	13.969
90.00	MCW 35%M 65%W	1.262

Total Length: 1430.00 ft Total Volume: 15.258 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188
ATTN: Jeff Christian

Harrison #1
23 10 23 Thomas KS
Job Ticket: 26455 **DST#:1**
Test Start: 2007.04.13 @ 09:51:44

Tool Information

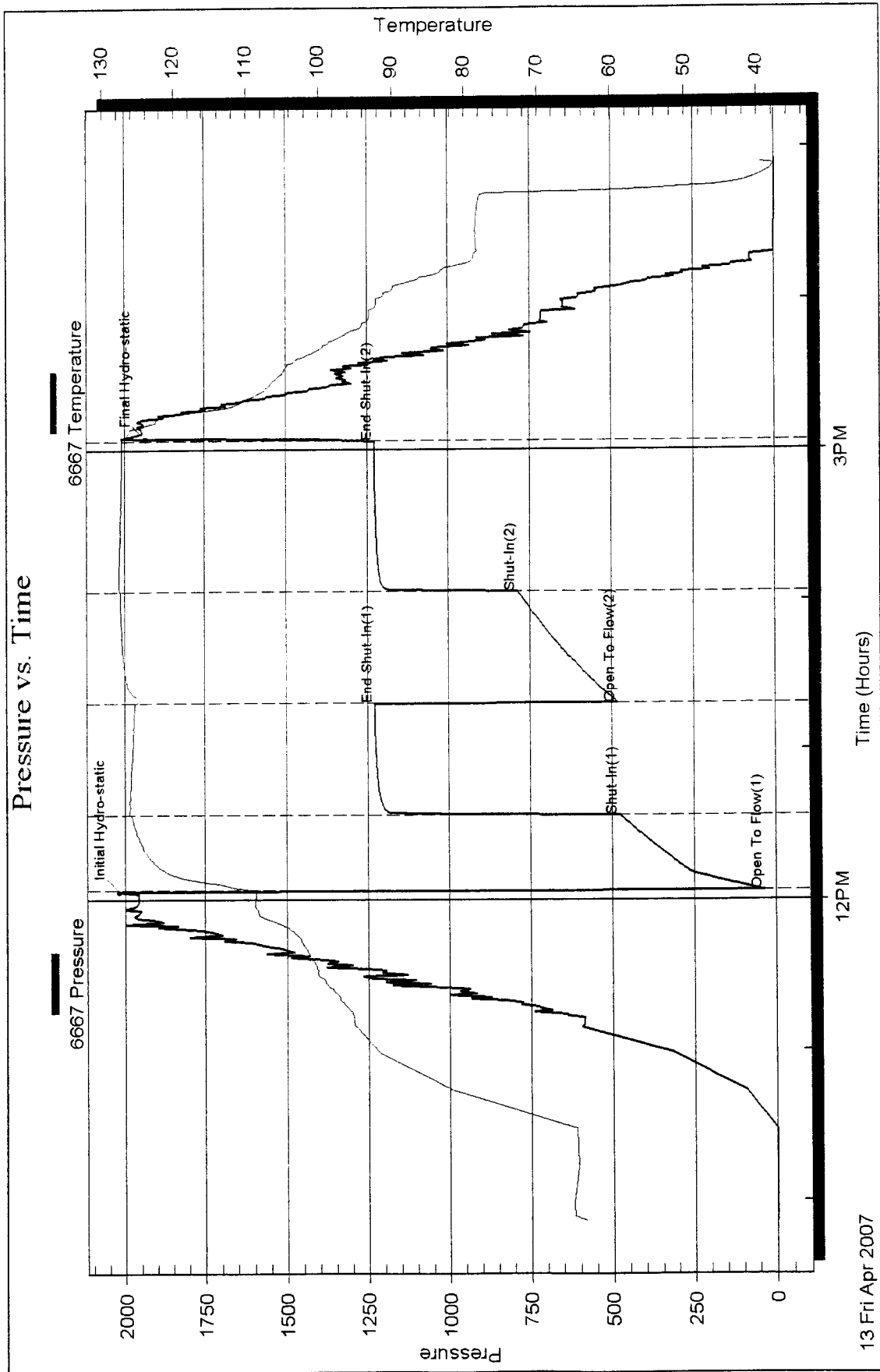
Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 53.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	4126.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	41.00 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			4112.00	
Hydraulic tool	5.00			4117.00	
Packer	5.00			4122.00	19.00 Bottom Of Top Packer
Packer	4.00		Inside	4126.00	
Stubb	1.00			4127.00	
Recorder	0.00	6667	Inside	4127.00	
Perforations	16.00			4143.00	
Recorder	0.00	11058	Inside	4143.00	
Bullnose	5.00			4148.00	22.00 Bottom Packers & Anchor
Total Tool Length:	41.00				

Pressure vs. Time

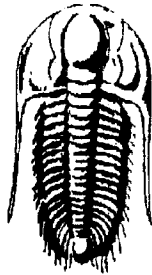


13 Fri Apr 2007

3PM

12PM

Time (Hours)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278-3188

ATTN: Jeff Christian

23 10 23 Thomas KS

Harrison #1

Start Date: 2007.04.14 @ 02:40:58

End Date: 2007.04.14 @ 08:57:37

Job Ticket #: 26456 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Ritchie Exploration Inc

Harrison #1

23 10 23 Thomas KS

DST # 2

G

2007.04.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188
ATTN: Jeff Christian

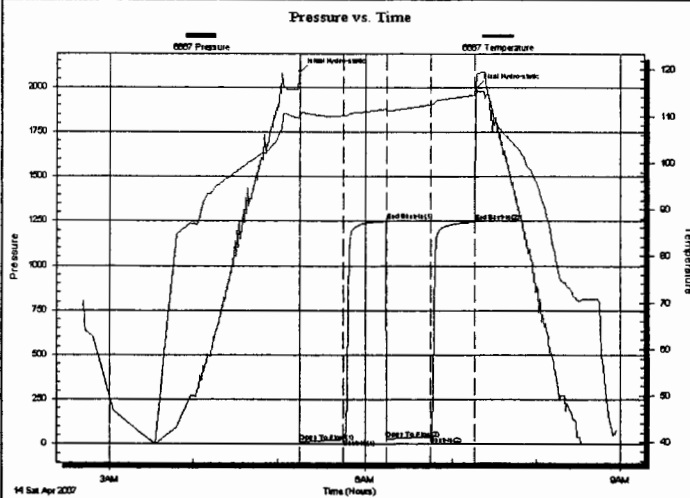
Harrison #1
23 10 23 Thomas KS
Job Ticket: 26456 **DST#: 2**
Test Start: 2007.04.14 @ 02:40:58

GENERAL INFORMATION:

Formation: **G**
Deviated: **No** Whipstock: ft (KB) Test Type: **Conventional Bottom Hole**
Time Tool Opened: 05:14:23 Tester: **Shane McBride**
Time Test Ended: 08:57:37 Unit No: **40**
Interval: 4194.00 ft (KB) To 4212.00 ft (KB) (TVD) Reference Elevations: 3070.00 ft (KB)
Total Depth: 4212.00 ft (KB) (TVD) 3060.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: **Fair** KB to GR/CF: 10.00 ft

Serial #: 6667 **Inside**
Press@RunDepth: 42.68 psig @ 4195.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2007.04.14 End Date: 2007.04.14 Last Calib.: 2007.04.14
Start Time: 02:40:58 End Time: 08:57:37 Time On Btm: 2007.04.14 @ 05:14:08
Time Off Btm: 2007.04.14 @ 07:17:08

TEST COMMENT: Weak blow died in 6 min.
No return
Weak blow died in 4 min.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.73	110.35	Initial Hydro-static
1	12.81	110.24	Open To Flow (1)
31	26.71	110.05	Shut-In(1)
60	1250.99	111.55	End Shut-In(1)
61	29.77	111.05	Open To Flow (2)
91	42.68	112.44	Shut-In(2)
123	1246.67	114.55	End Shut-In(2)
123	2000.77	118.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SMCW 20%M 80%W	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188

ATTN: Jeff Christian

Harrison #1
23 10 23 Thomas KS
Job Ticket: 26456 **DST#: 2**
Test Start: 2007.04.14 @ 02:40:58

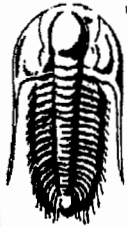
Tool Information

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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 105000.0 lb
		Total Volume: 54.10 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4194.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	37.00 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			4180.00	
Hydraulic tool	5.00			4185.00	
Packer	5.00			4190.00	19.00 Bottom Of Top Packer
Packer	4.00		inside	4194.00	
Stubb	1.00			4195.00	
Recorder	0.00	6667	inside	4195.00	
Perforations	12.00			4207.00	
Recorder	0.00	11058	inside	4207.00	
Bullnose	5.00			4212.00	18.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Harrison #1

PO Box 783188
Wichita KS 67278-3188

23 10 23 Thomas KS

Job Ticket: 26456

DST#: 2

ATTN: Jeff Christian

Test Start: 2007.04.14 @ 02:40:58

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

39000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.75 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SMCW 20%M 80%W	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

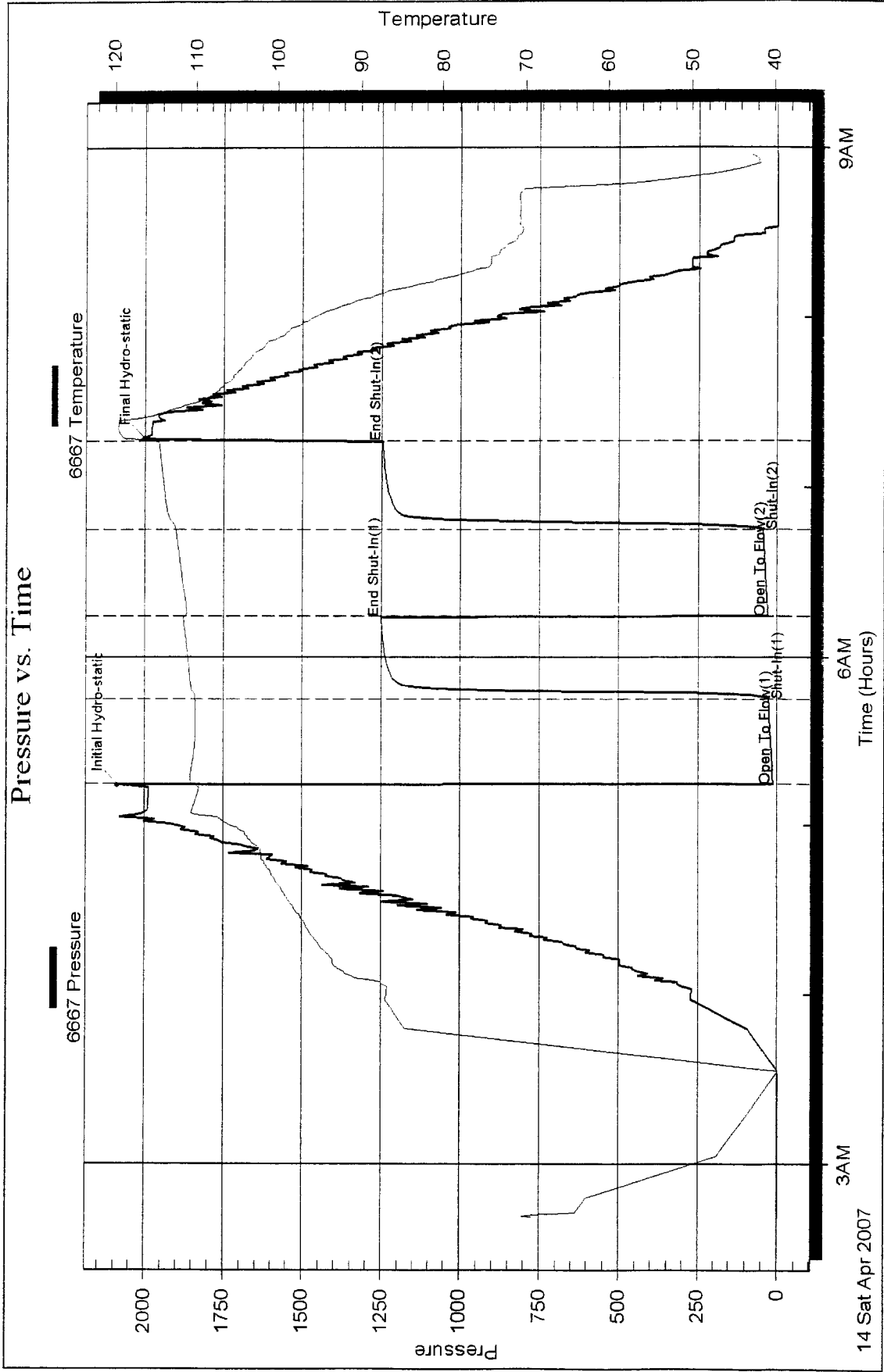
Serial #:

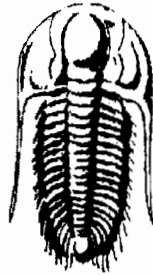
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278-3188

ATTN: Jeff Christian

23 10 23 Thomas KS

Harrison #1

Start Date: 2007.04.15 @ 00:00:55

End Date: 2007.04.15 @ 06:15:34

Job Ticket #: 26457 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Ritchie Exploration Inc

Harrison #1

23 10 23 Thomas KS

DST # 3

I-J

2007.04.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188
ATTN: Jeff Christian

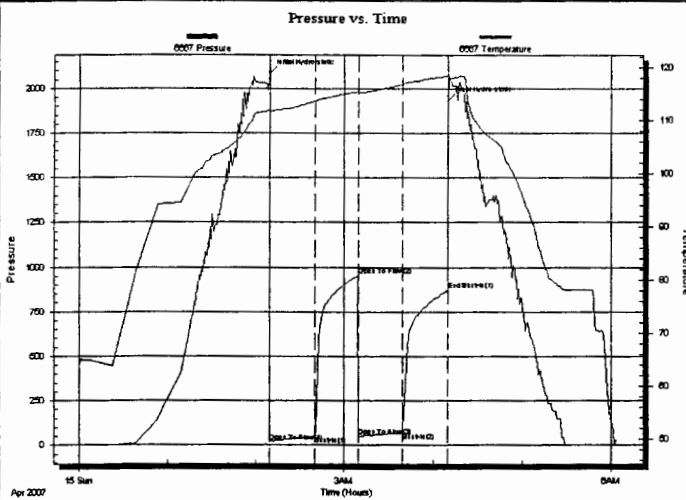
Harrison #1
23 10 23 Thomas KS
Job Ticket: 26457 **DST#: 3**
Test Start: 2007.04.15 @ 00:00:55

GENERAL INFORMATION:

Formation: I-J
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:09:20
Time Test Ended: 06:15:34
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40
Interval: **4257.00 ft (KB) To 4312.00 ft (KB) (TVD)**
Reference Elevations: 3070.00 ft (KB)
Total Depth: 4312.00 ft (KB) (TVD) 3060.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GRVCF: 10.00 ft

Serial #: 6667 Inside
Press@RunDepth: 47.69 psig @ 4258.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2007.04.15 End Date: 2007.04.15 Last Calib.: 2007.04.15
Start Time: 00:00:55 End Time: 06:03:34 Time On Btm: 2007.04.15 @ 02:09:05
Time Off Btm: 2007.04.15 @ 04:09:50

TEST COMMENT: 1/4 " blow died back to 1/8 "
No return
1/8 " blow blew throughout
No return



PRESSURE SUMMARY

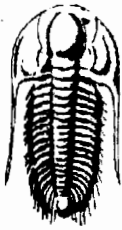
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2086.31	111.99	Initial Hydro-static
1	20.55	111.66	Open To Flow (1)
31	47.69	113.63	Shut-In(1)
61	954.22	115.41	Open To Flow (2)
61	50.80	115.19	Open To Flow (3)
91	69.92	116.83	Shut-In(2)
121	871.86	118.38	End Shut-In(1)
121	1932.56	118.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	100%M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 PO Box 783188
 Wichita KS 67278-3188
 ATTN: Jeff Christian

Harrison #1
23 10 23 Thomas KS
 Job Ticket: 26457 **DST#: 3**
 Test Start: 2007.04.15 @ 00:00:55

Tool Information

Drill Pipe:	Length: 3738.00 ft	Diameter: 3.80 inches	Volume: 52.43 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 105000.0 lb
		Total Volume: 55.04 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4257.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	74.00 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			4243.00	
Hydraulic tool	5.00			4248.00	
Packer	5.00			4253.00	19.00 Bottom Of Top Packer
Packer	4.00		inside	4257.00	
Stubb	1.00			4258.00	
Recorder	0.00	6667	inside	4258.00	
Perforations	16.00			4274.00	
Change Over Sub	1.00			4275.00	
Drill Pipe	31.00			4306.00	
Change Over Sub	1.00			4307.00	
Recorder	0.00	11058	inside	4307.00	
Bullnose	5.00			4312.00	55.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188
ATTN: Jeff Christian

Harrison #1
23 10 23 Thomas KS
Job Ticket: 26457 **DST#: 3**
Test Start: 2007.04.15 @ 00:00:55

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: 2.00 inches			

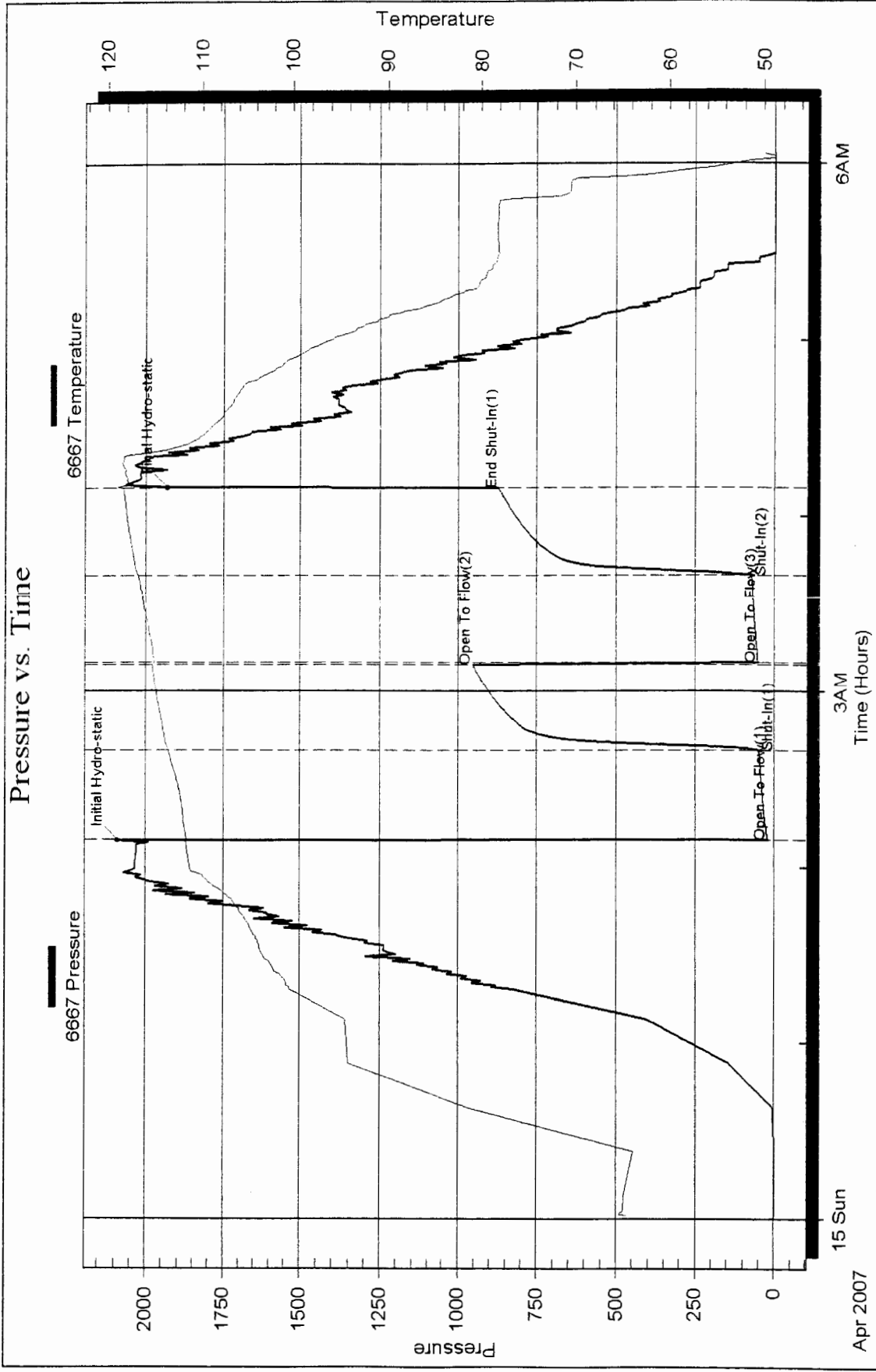
Recovery Information

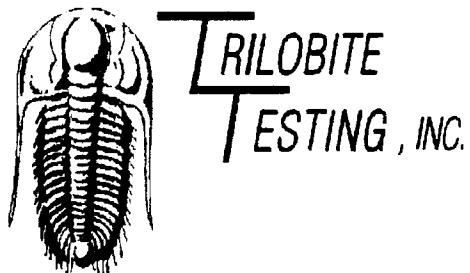
Recovery Table

Length ft	Description	Volume bbl
60.00	100%M	0.295

Total Length: 60.00 ft Total Volume: 0.295 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: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278-3188

ATTN: Jeff Christian

23 10 23 Thomas KS

Harrison #1

Start Date: 2007.04.16 @ 08:10:20

End Date: 2007.04.16 @ 15:10:59

Job Ticket #: 26458 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

TOOL DIAGRAM

Ritchie Exploration Inc
 PO Box 783188
 Wichita KS 67278-3188
 ATTN: Jeff Christian

Harrison #1
23 10 23 Thomas KS
 Job Ticket: 26458 **DST#: 4**
 Test Start: 2007.04.16 @ 08:10:20

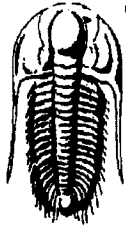
Tool Information

Drill Pipe:	Length: 3931.00 ft	Diameter: 3.80 inches	Volume: 55.14 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 115000.0 lb
			Total Volume: 57.75 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	4458.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.00 ft			
Tool Length:	122.00 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			4444.00	
Hydraulic tool	5.00			4449.00	
Packer	5.00			4454.00	19.00 Bottom Of Top Packer
Packer	4.00		Inside	4458.00	
Stubb	1.00			4459.00	
Recorder	0.00	6667	Inside	4459.00	
Perforations	32.00			4491.00	
Change Over Sub	1.00			4492.00	
Drill Pipe	63.00			4555.00	
Change Over Sub	1.00			4556.00	
Recorder	0.00	11058	Inside	4556.00	
Bullnose	5.00			4561.00	103.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188
ATTN: Jeff Christian

Harrison #1
23 10 23 Thomas KS
Job Ticket: 26458 **DST#: 4**
Test Start: 2007.04.16 @ 08:10:20

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 7.58 in³
Resistivity: 0.00 ohm.m
Salinity: 1800.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 0 deg API
Water Salinity: 41000 ppm

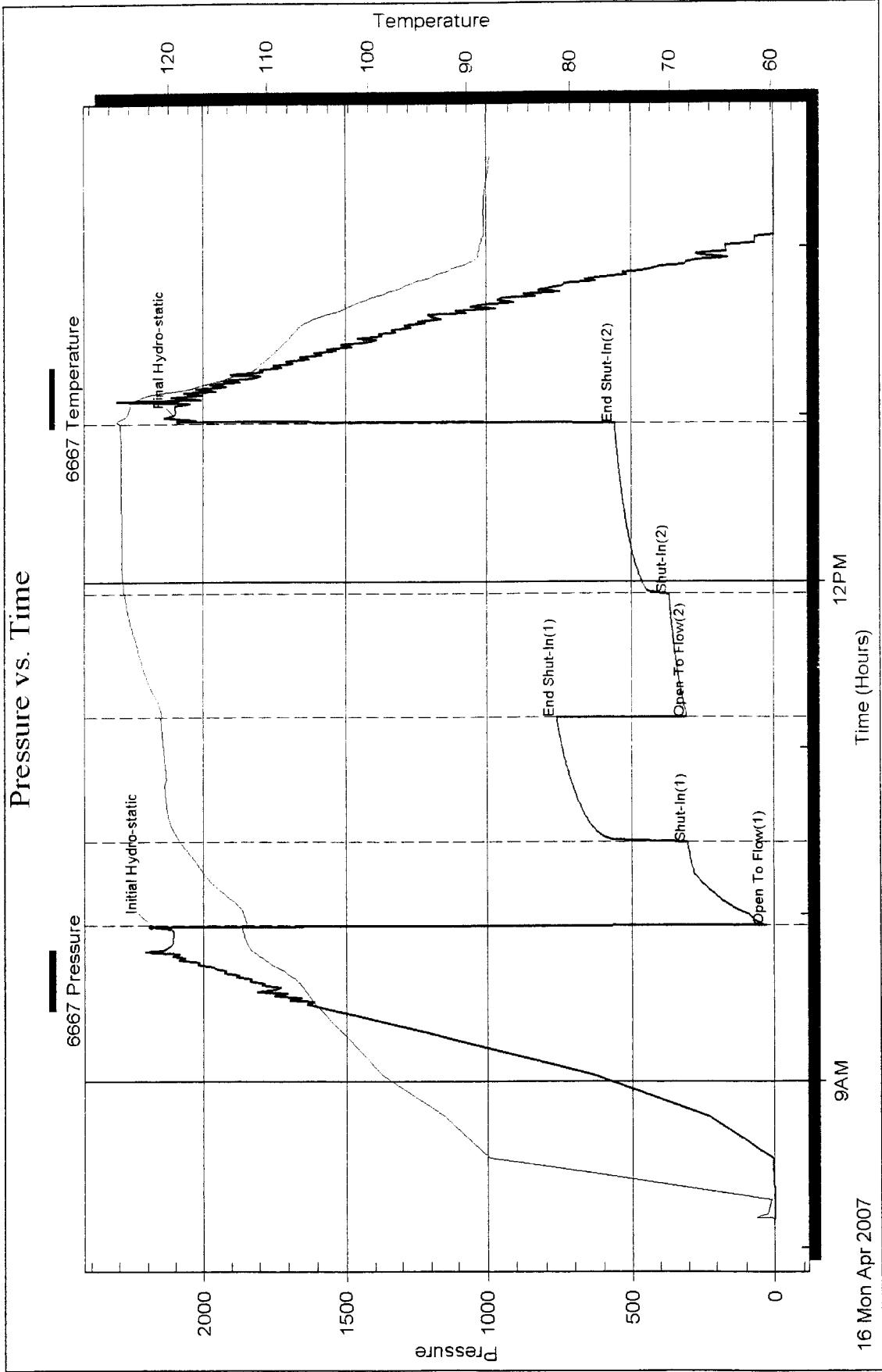
Recovery Information

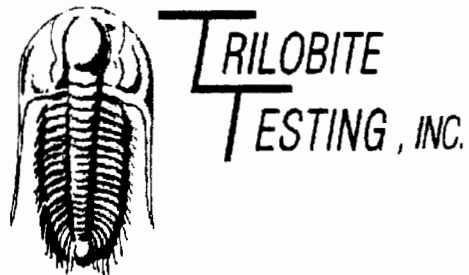
Recovery Table

Length ft	Description	Volume bbl
440.00	Water 100%Vw/Oil scum	2.164
180.00	MCW 30%M 70%W w/Oil scum	1.705
110.00	SWCM 15%V 85%M w/Oil spots	1.543

Total Length: 730.00 ft Total Volume: 5.412 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: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278-3188

ATTN: Jeff Christian

23 10 23 Thomas KS

Harrison #1

Start Date: 2007.04.16 @ 23:40:28

End Date: 2007.04.17 @ 06:10:07

Job Ticket #: 26459 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Ritchie Exploration Inc

Harrison #1

23 10 23 Thomas KS

DST # 5

Johnson

2007.04.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
PO Box 783188
Wichita KS 67278-3188

ATTN: Jeff Christian

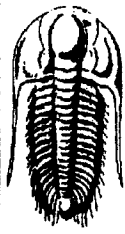
Harrison #1
23 10 23 Thomas KS
Job Ticket: 26459 **DST#: 5**
Test Start: 2007.04.16 @ 23:40:28

Tool Information

Drill Pipe:	Length: 4024.00 ft	Diameter: 3.80 inches	Volume: 56.45 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 115000.0 lb
			Total Volume: 59.06 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 89000.00 lb
Depth to Top Packer:	4558.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	86.00 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			4544.00	
Hydraulic tool	5.00			4549.00	
Packer	5.00			4554.00	19.00 Bottom Of Top Packer
Packer	4.00		Inside	4558.00	
Stubb	1.00			4559.00	
Recorder	0.00	6667	Inside	4559.00	
Perforations	27.00			4586.00	
Change Over Sub	1.00			4587.00	
Drill Pipe	32.00			4619.00	
Change Over Sub	1.00			4620.00	
Recorder	0.00	11058	Inside	4620.00	
Bullnose	5.00			4625.00	67.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Harrison #1

PO Box 783188
Wichita KS 67278-3188

23 10 23 Thomas KS

Job Ticket: 26459

DST#: 5

ATTN: Jeff Christian

Test Start: 2007.04.16 @ 23:40:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100%M	0.010

Total Length: 2.00 ft

Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6667

Inside

Ritchie Exploration Inc

23 10 23 Thomas KS

DST Test Number: 5

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