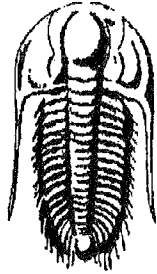


15-135-24921

25-18s-24w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hembree**

PO Box 542
Ness City, KS 67560

ATTN: Jim Musgrove

25 18s 24w Ness KS

Parker#3

Start Date: 2009.06.24 @ 20:29:07

End Date: 2009.06.25 @ 05:01:37

Job Ticket #: 35199 DST #: 1

KANSAS CORPORATION COMMISSION

**JUL 23 2009
RECEIVED**

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Hembree

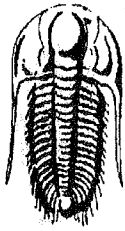
Parker#3

25 18s 24w Ness KS

DST # 1

Marrimonton

2009.06.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hembree
PO Box 542
Ness City, KS 67560
ATTN: Jim Musgrove

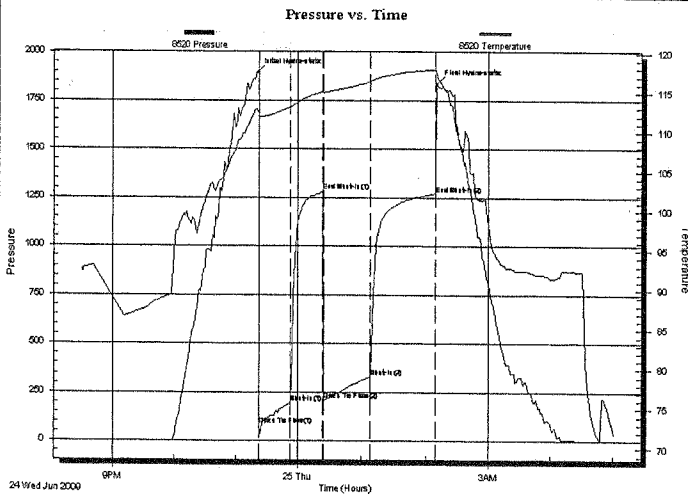
Parker#3
25 18s 24w Ness KS
Job Ticket: 35199 **DST#: 1**
Test Start: 2009.06.24 @ 20:29:07

GENERAL INFORMATION:

Formation: **Marmonton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:23:07
Time Test Ended: 05:01:37
Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: #38
Interval: **3950.00 ft (KB) To 4050.00 ft (KB) (TVD)**
Total Depth: 4050.00 ft (KB) (TVD)
Reference Elevations: 2251.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 5.00 ft
2246.00 ft (CF)

Serial #: 8520 Outside
Press@RunDepth: 330.08 psig @ 3953.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2009.06.24 End Date: 2009.06.25 Last Calib.: 2009.06.25
Start Time: 20:29:08 End Time: 05:01:37 Time On Btm: 2009.06.24 @ 23:21:07
Time Off Btm: 2009.06.25 @ 02:11:07

TEST COMMENT: IF-BOB in 2.5min
ISI-BOB in 4min
FF-BOB in 3min GTS 33min
FSI-BOB in 3.5min



PRESSURE SUMMARY

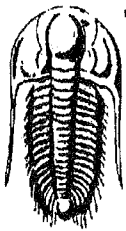
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.56	112.90	Initial Hydro-static
2	78.42	111.93	Open To Flow (1)
32	193.24	113.17	Shut-In(1)
62	1283.62	115.14	End Shut-In(1)
64	208.39	114.98	Open To Flow(2)
107	330.08	116.39	Shut-In(2)
168	1272.34	117.93	End Shut-In(2)
170	1838.36	117.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 30%G 30%O 40%M	1.68
540.00	GO 20%G 80%O	7.57
120.00	VGO 60%G 40%O	1.68
60.00	VGOCM 35%G 10%O 55%M	0.84
50.00	OCM 5%O 95%M	0.70
0.00	GIP 3160	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hembree
PO Box 542
Ness City, KS 67560
ATTN: Jim Musgrove

Parker#3
25 18s 24w Ness KS
Job Ticket: 35199 **DST#: 1**
Test Start: 2009.06.24 @ 20:29:07

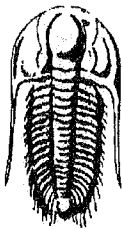
Tool Information

Drill Pipe:	Length: 3938.00 ft	Diameter: 3.80 inches	Volume: 55.24 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 55.24 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3950.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	121.00 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			3930.00	
Shut In Tool	5.00			3935.00	
Hydraulic tool	5.00			3940.00	
Packer	5.00			3945.00	21.00 Bottom Of Top Packer
Packer	5.00			3950.00	
Stubb	1.00			3951.00	
Perforations	1.00			3952.00	
Change Over Sub	1.00			3953.00	
Recorder	0.00	8372	Inside	3953.00	
Recorder	0.00	8520	Outside	3953.00	
Drill Pipe	93.00			4046.00	
Change Over Sub	1.00			4047.00	
Bullnose	3.00			4050.00	100.00 Bottom Packers & Anchor

Total Tool Length: 121.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hembree
PO Box 542
Ness City, KS 67560
ATTN: Jim Musgrove

Parker#3
25 18s 24w Ness KS
Job Ticket: 35199 **DST#: 1**
Test Start: 2009.06.24 @ 20:29:07

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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

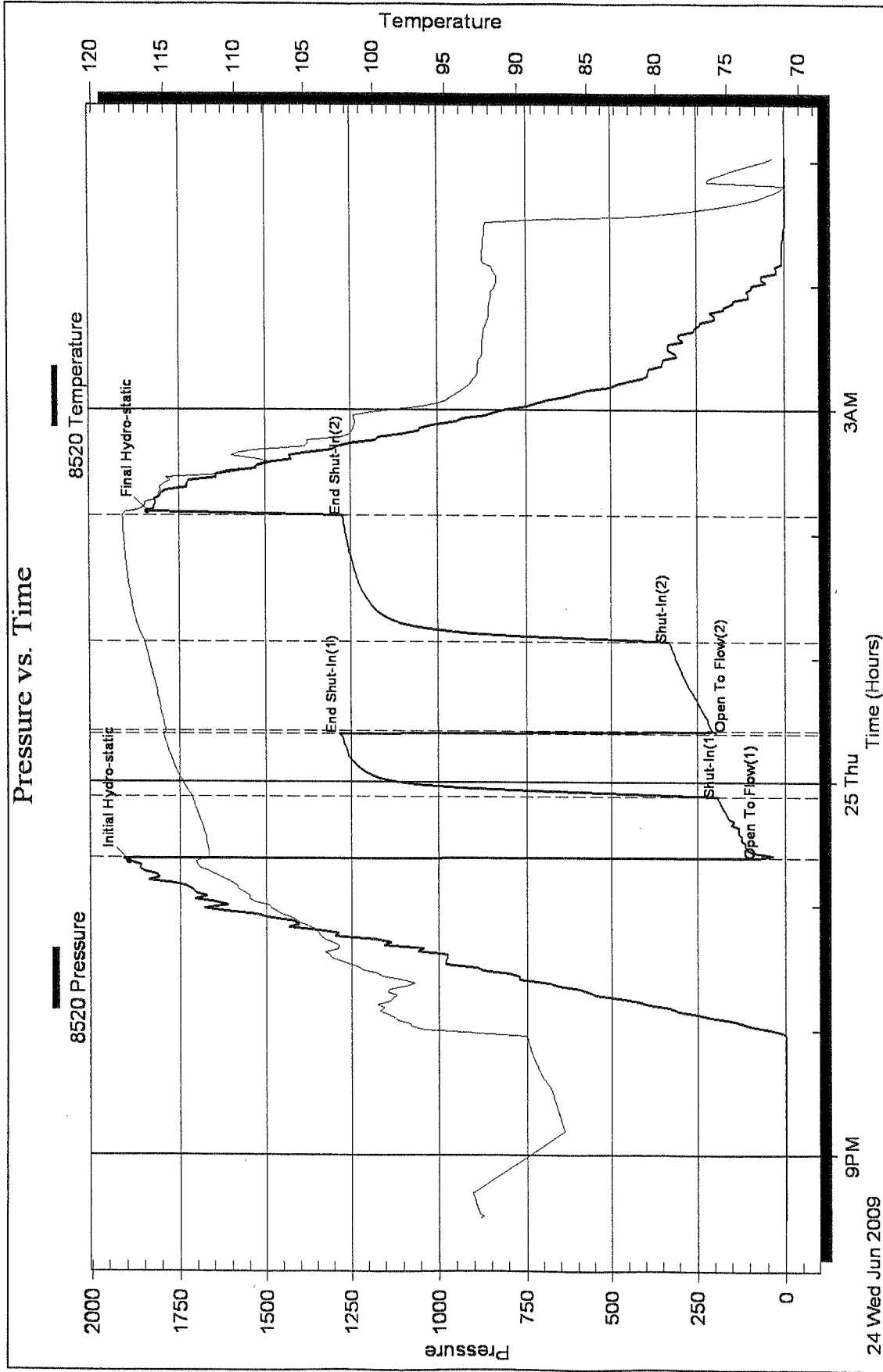
Recovery Information

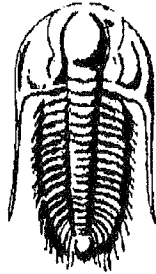
Recovery Table

Length ft	Description	Volume bbl
120.00	GOCM 30%G 30%O 40%M	1.683
540.00	GO 20%G 80%O	7.575
120.00	VGO 60%G 40%O	1.683
60.00	VGOCM 35%G 10%O 55%M	0.842
50.00	OCM 5%O 95%M	0.701
0.00	GIP 3160	0.000

Total Length: 890.00 ft Total Volume: 12.484 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: **Hembree**

PO Box 542
Ness City, KS 67560

ATTN: Jim Musgrove

25 18s 24w Ness KS

Parker#3

Start Date: 2009.06.25 @ 20:45:10

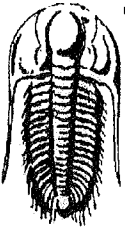
End Date: 2009.06.26 @ 03:49:10

Job Ticket #: 35200 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hembree
PO Box 542
Ness City, KS 67560
ATTN: Jim Musgrove

Parker#3
25 18s 24w Ness KS
Job Ticket: 35200 **DST#: 2**
Test Start: 2009.06.25 @ 20:45:10

GENERAL INFORMATION:

Formation: **FT. Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:07:10
Time Test Ended: 03:49:10
Interval: 4154.00 ft (KB) To 4190.00 ft (KB) (TVD)
Total Depth: 4190.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: #38
Reference Elevations: 2251.00 ft (KB)
2246.00 ft (CF)
KB to GR/CF: 5.00 ft

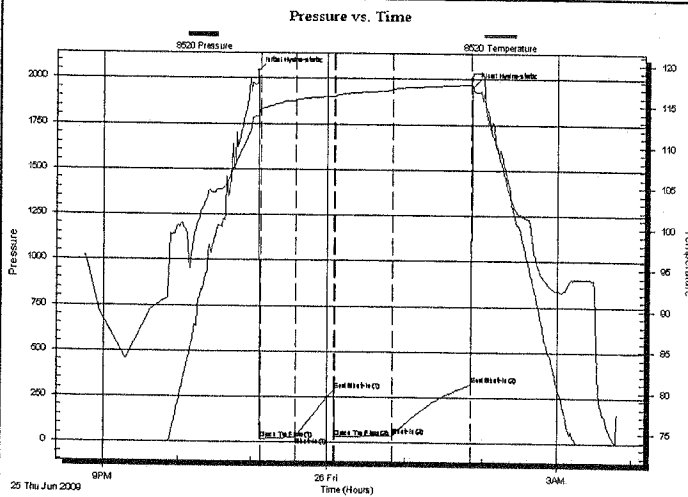
Serial #: 8520

Outside

Press@RunDepth: 38.48 psig @ 4157.00 ft (KB)
Start Date: 2009.06.25 End Date: 2009.06.26
Start Time: 20:45:11 End Time: 03:49:10

Capacity: 7000.00 psig
Last Calib.: 2009.06.26
Time On Btm: 2009.06.25 @ 23:05:10
Time Off Btm: 2009.06.26 @ 01:52:10

TEST COMMENT: IF- BOB in 2.5in
IS- NO blow
FF-BOB in 3min
FSI- No blow



PRESSURE SUMMARY

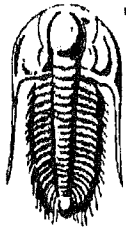
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.23	113.63	Initial Hydro-static
2	16.33	114.51	Open To Flow (1)
31	26.69	115.54	Shut-In (1)
61	288.69	116.07	End Shut-In (1)
62	29.83	116.07	Open To Flow (2)
106	38.48	116.93	Shut-In (2)
166	325.45	117.63	End Shut-In (2)
167	1959.47	118.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 30%G 35%O 35%M	0.84
10.00	OCM 30%O 70%M	0.14
0.00	1080ft GIP	0.00
0.00		0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hembree
PO Box 542
Ness City, KS 67560
ATTN: Jim Musgrove

Parker#3
25 18s 24w Ness KS
Job Ticket: 35200 **DST#: 2**
Test Start: 2009.06.25 @ 20:45:10

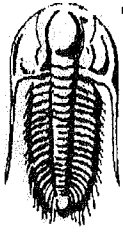
Tool Information

Drill Pipe:	Length: 4156.00 ft	Diameter: 3.80 inches	Volume: 58.30 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.30 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4154.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	57.00 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			4134.00	
Shut In Tool	5.00			4139.00	
Hydraulic tool	5.00			4144.00	
Packer	5.00			4149.00	21.00 Bottom Of Top Packer
Packer	5.00			4154.00	
Stubb	1.00			4155.00	
Perforations	2.00			4157.00	
Recorder	0.00	8372	Inside	4157.00	
Recorder	0.00	8520	Outside	4157.00	
Perforations	30.00			4187.00	
Bullnose	3.00			4190.00	36.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hembree
PO Box 542
Ness City, KS 67560
ATTN: Jim Musgrove

Parker#3
25 18s 24w Ness KS
Job Ticket: 35200 **DST#: 2**
Test Start: 2009.06.25 @ 20:45:10

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 30%G 35%O 35%M	0.842
10.00	OCM 30%O 70%M	0.140
0.00	1080ft GIP	0.000
0.00		0.000

Total Length: 70.00 ft Total Volume: 0.982 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

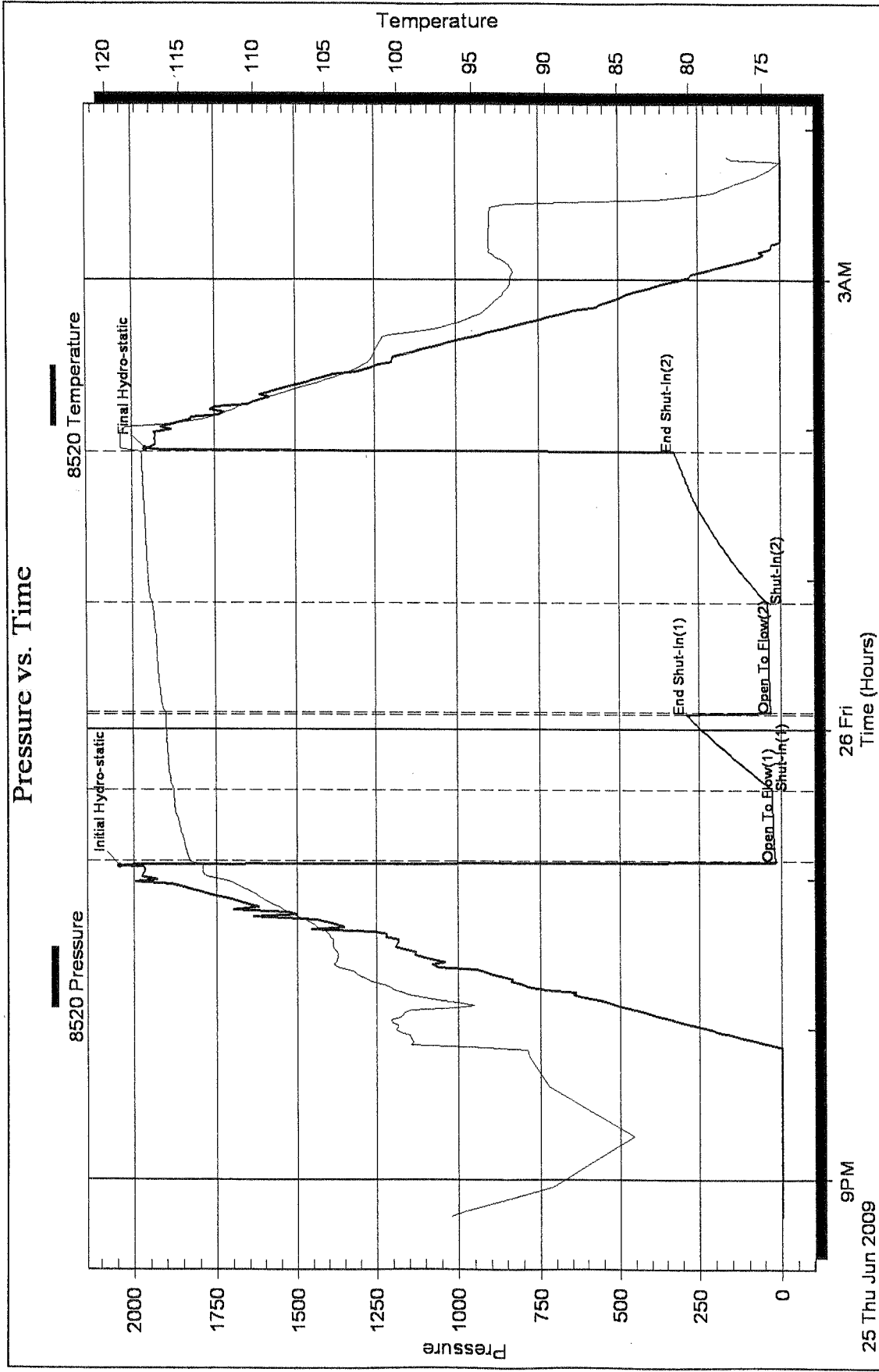
Serial #: 8520

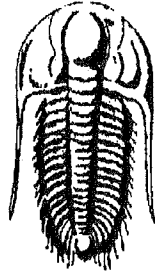
Outside Hembree

25 18s 24w Ness KS

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hembree**

PO Box 542
Ness City, KS 67560

ATTN: Jim Musgrove

25 18s 24w Ness KS

Parker#3

Start Date: 2009.06.26 @ 13:52:43

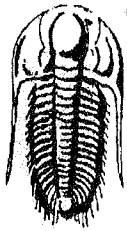
End Date: 2009.06.26 @ 21:03:43

Job Ticket #: 36401 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hembree
PO Box 542
Ness City, KS 67560
ATTN: Jim Musgrove

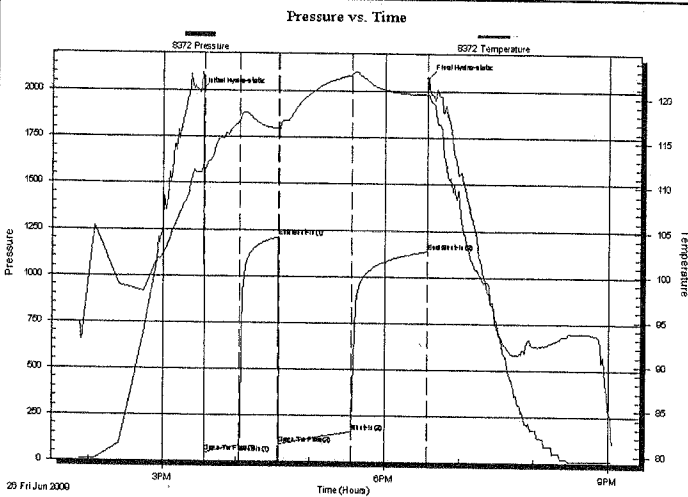
Parker#3
25 18s 24w Ness KS
Job Ticket: 36401 **DST#: 3**
Test Start: 2009.06.26 @ 13:52:43

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:33:43
Time Test Ended: 21:03:43
Interval: **4195.00 ft (KB) To 4260.00 ft (KB) (TVD)**
Total Depth: 4260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: #38
Reference Elevations: 2251.00 ft (KB)
2246.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8372 **Inside**
Press@RunDepth: 162.31 psig @ 4225.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2009.06.26 End Date: 2009.06.26 Last Calib.: 2009.06.26
Start Time: 13:52:44 End Time: 21:03:43 Time On Btm: 2009.06.26 @ 15:30:43
Time Off Btm: 2009.06.26 @ 18:34:43

TEST COMMENT: IF- 1in blow built to 8.5in
IS- No blow
FF- BOB in 23min
FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1994.30	111.51	Initial Hydro-static
3	45.10	111.53	Open To Flow (1)
32	86.44	117.31	Shut-In(1)
63	1209.30	116.47	End Shut-In(1)
64	91.57	116.17	Open To Flow (2)
123	162.31	122.53	Shut-In(2)
183	1138.27	120.33	End Shut-In(2)
184	2073.38	120.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 15%G 55%O 30%M	0.84
120.00	GMCO 15%G 80%O 5%M	1.68
120.00	GO 10% 90%O	1.68
30.00	VGO 40% G 60%O	0.42
0.00	150 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hembree
PO Box 542
Ness City, KS 67560
ATTN: Jim Musgrove

Parker#3
25 18s 24w Ness KS
Job Ticket: 36401 **DST#: 3**
Test Start: 2009.06.26 @ 13:52:43

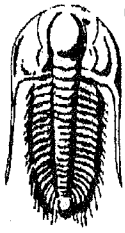
Tool Information

Drill Pipe:	Length: 4187.00 ft	Diameter: 3.80 inches	Volume: 58.73 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 67000.00 lb
		Total Volume: 58.73 bbl		Tool Chased ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4195.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 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
Change Over Sub	1.00			4175.00	
Shut In Tool	5.00			4180.00	
Hydraulic tool	5.00			4185.00	
Packer	5.00			4190.00	21.00 Bottom Of Top Packer
Packer	5.00			4195.00	
Stubb	1.00			4196.00	
Perforations	28.00			4224.00	
Change Over Sub	1.00			4225.00	
Recorder	0.00	8372	Inside	4225.00	
Recorder	0.00	8520	Outside	4225.00	
Drill Pipe	31.00			4256.00	
Change Over Sub	1.00			4257.00	
Bullnose	3.00			4260.00	65.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hembree

Parker#3

PO Box 542
Ness City, KS 67560

25 18s 24w Ness KS

Job Ticket: 36401

DST#: 3

ATTN: Jim Musgrove

Test Start: 2009.06.26 @ 13:52:43

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO 15%G 55%O 30%M	0.842
120.00	GMCO 15%G 80%O 5%M	1.683
120.00	GO 10% 90%O	1.683
30.00	VGO 40% G 60%O	0.421
0.00	150 GIP	0.000

Total Length: 330.00 ft

Total Volume: 4.629 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

Inside

Hembree

25 18s 24w Ness KS

DST Test Number: 3

Pressure vs. Time

