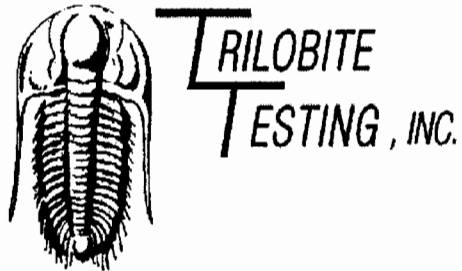


NOV 30 2004

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating, Co. LLC**

125 N. Market suite 1000
Wichita, Kansas. 67202

ATTN: Mikeal K. Maune

5-32s-12w

Clarke #2

Start Date: 2004.08.02 @ 11:02:06

End Date: 2004.08.02 @ 19:13:33

Job Ticket #: 19710 DST #: 1

API # 15-007-22836

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

104102



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating, Co. LLC

Clarke #2

125 N. Market suite 1000
Wichita, Kansas. 67202

5-32s-12w

Job Ticket: 19710

DST#: 1

ATTN: Mkeal K. Maune

Test Start: 2004.08.02 @ 11:02:06

GENERAL INFORMATION:

Formation: **Upper Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:04:48

Time Test Ended: 19:13:33

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **4195.00 ft (KB) To 4241.00 ft (KB) (TVD)**

Reference Elevations: 1507.00 ft (KB)

Total Depth: 4241.00 ft (KB) (TVD)

1496.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6625

Inside

Press@RunDepth: 93.66 psig @ 4206.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.08.02

End Date: 2004.08.02

Last Calib.: 2004.08.02

Start Time: 11:02:06

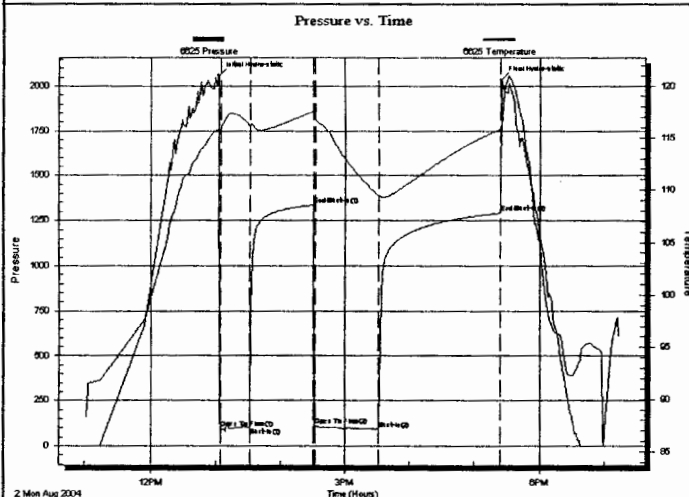
End Time: 19:13:33

Time On Btm: 2004.08.02 @ 13:02:18

Time Off Btm: 2004.08.02 @ 17:24:33

TEST COMMENT: IF: Strong blow b.o.b in 25 sec. GTS in 5 mins. gauge gas.
IS: Bled down n for 13 mins. built back to 2" in H₂O bucket.
FF: Strong blow b.o.b in 15 sec. gauge gas.
FS: Bled down n for 10 mins. no blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.73	115.90	Initial Hydro-static
3	94.94	116.04	Open To Flow (1)
29	99.75	116.14	Shut-In (1)
88	1336.76	117.58	End Shut-In (1)
90	114.57	116.87	Open To Flow (2)
149	93.66	109.38	Shut-In (2)
262	1291.86	115.87	End Shut-In (2)
263	2035.38	116.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4097' of gip	0.00
90.00	SGCM10% gas 90% mud	0.83

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	9.00	365.50
Last Gas Rate		0.00	
Max. Gas Rate	0.75	14.00	443.60

NOV 30 2004


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

 CONSERVATION DIVISION
 WICHITA, KS
TOOL DIAGRAM

Woolsey Operating, Co. LLC

Clarke #2

 125 N. Market suite 1000
 Wichita, Kansas 67202

5-32s-12w

Job Ticket: 19710

DST#: 1

ATTN: Mikeal K. Maune

Test Start: 2004.08.02 @ 11:02:06

Tool Information

Drill Pipe:	Length: 4156.00 ft	Diameter: 3.80 inches	Volume: 58.30 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 58.30 bbl	Tool Chased 0.50 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4195.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	75.00 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			4167.00	
Shut In Tool	5.00			4172.00	
Hydraulic tool	5.00			4177.00	
Jars	5.00			4182.00	
Safety Joint	3.00			4185.00	
Packer	5.00			4190.00	29.00 Bottom Of Top Packer
Packer	5.00			4195.00	
Stubb	1.00			4196.00	
Anchor	10.00			4206.00	
Recorder	0.00	6625	Inside	4206.00	
Blank Spacing	32.00			4238.00	
Recorder	0.00	10991	Outside	4238.00	
Bullnose	3.00			4241.00	46.00 Bottom Packers & Anchor

Total Tool Length: 75.00


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating, Co. LLC

Clarke #2

125 N. Market suite 1000
Wichita, Kansas. 67202

5-32s-12w

Job Ticket: 19710

DST#: 1

ATTN: Mkeal K. Maune

Test Start: 2004.08.02 @ 11:02:06

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 14.96 in³

Gas Cushion Type:

Resistivity: 0.40 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4097' of gip	0.000
90.00	SGCM10% gas 90% mud	0.828

Total Length: 90.00 ft

Total Volume: 0.828 bbl

Num Fluid Samples: 1

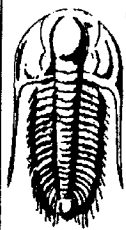
Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

**TRILOBITE**
TESTING, INC.**DRILL STEM TEST REPORT****NOV 30 2004** GAS RATES

Woolsey Operating, Co. LLC

125 N. Market suite 1000
Wichita, Kansas. 67202

ATTN: Mkeal K. Maune

Clarke #2 CONSERVATION DIVISION
WICHITA, KS

5-32s-12w

Job Ticket: 19710

DST#: 1

Test Start: 2004.08.02 @ 11:02:06

Gas Rates InformationTemperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
1	10	0.75	9.00	365.50
1	15	0.75	10.00	381.12
1	20	0.75	10.00	381.12
1	25	0.75	10.00	381.12
1	30	0.75	10.00	381.12
2	5	0.75	11.00	396.74
2	10	0.75	14.00	443.60
2	15	0.75	14.00	443.60
2	20	0.75	13.50	435.79
2	25	0.75	13.00	427.98
2	30	0.75	12.00	412.36
2	35	0.75	11.00	396.74
2	40	0.75	11.00	396.74
2	45	0.75	11.00	396.74
2	50	0.75	10.50	388.93
2	55	0.75	10.00	381.12
2	60	0.75	10.00	381.12
0	0	-999999.00	0.00	-999999.00

104/02

DST Test Number: 1

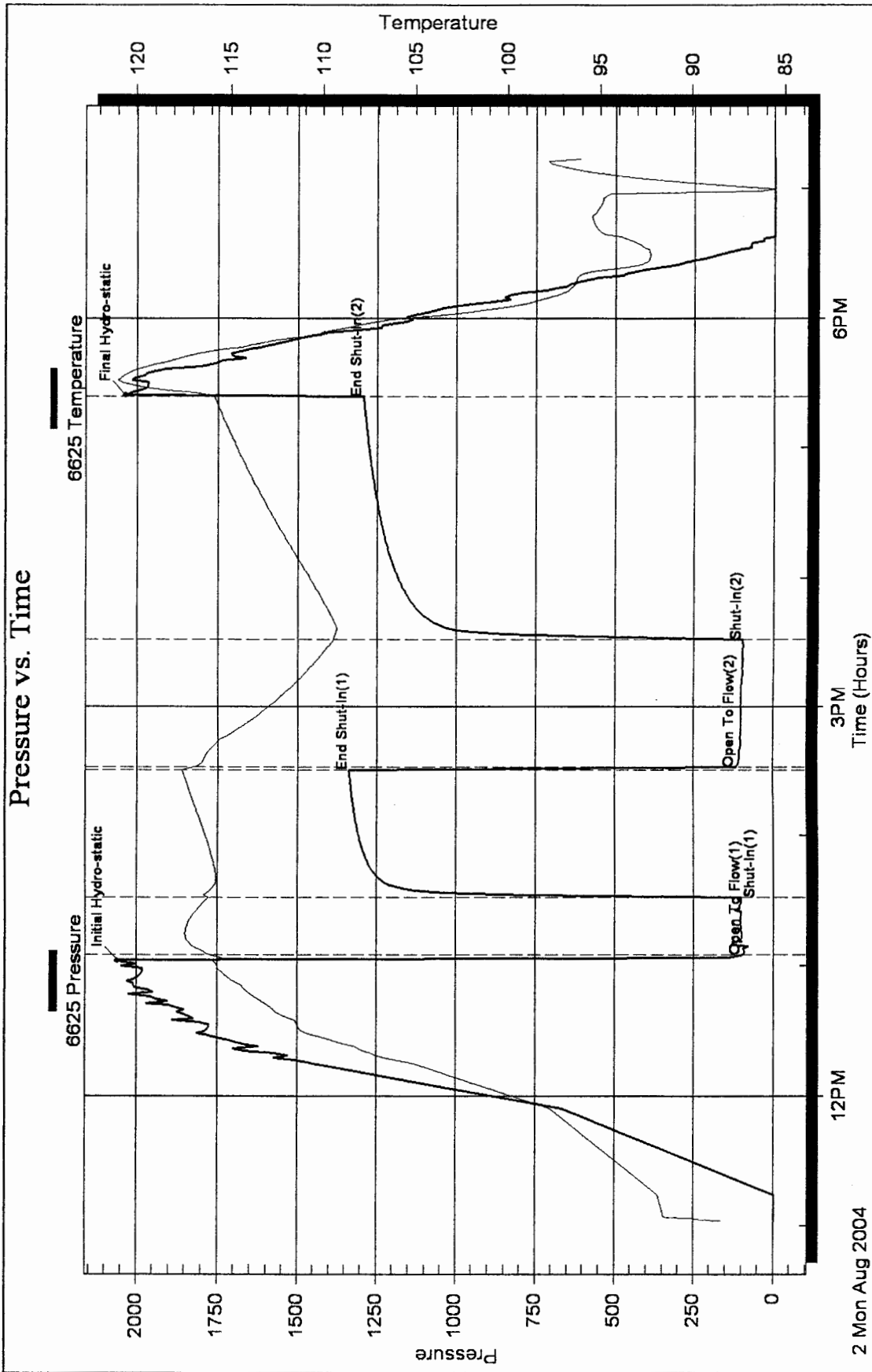
5-32s-12w

Woolsey Operating Co. LLC

Inside

Serial #: 6625

Pressure vs. Time



Trilobite Testing, Inc

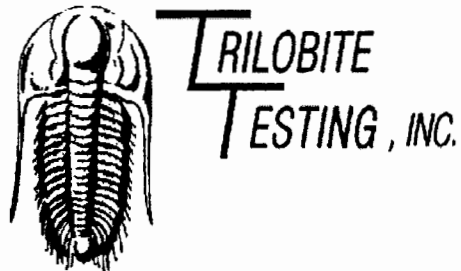
Ref. No: 19710

Printed: 2004.08.06 @ 10:40:44 Page 6

RECEIVED
KANSAS CORPORATION COMMISSION

NOV 30 2004

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating, Co. LLC**

125 N. Market suite 1000
Wichita, Kansas. 67202

ATTN: Mikeal K. Maune

5-32s-12w

Clarke #2

Start Date: 2004.08.03 @ 05:46:02

End Date: 2004.08.03 @ 15:10:02

Job Ticket #: 19711 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Woolsey Operating, Co. LLC

Clarke #2

5-32s-12w

DST # 2

Lower(Mississippian)

2004.08.03

104102


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Operating, Co. LLC

Clarke #2

125 N. Market suite 1000
Wichita, Kansas. 67202

5-32s-12w

Job Ticket: 19711

DST#: 2

ATTN: Mkeal K. Maune

Test Start: 2004.08.03 @ 05:46:02

GENERAL INFORMATION:

Formation: **Lower(Mississippian)**Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 08:08:32

Time Test Ended: 15:10:02

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **4243.00 ft (KB) To 4292.00 ft (KB) (TVD)**

Reference Elevations: 1507.00 ft (KB)

Total Depth: 4292.00 ft (KB) (TVD)

1496.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GRVCF: 11.00 ft

Serial #: 6625

Press@RunDepth: 33.93 psig @ **ft (KB)**

Capacity: 7000.00 psig

Start Date: 2004.08.03

End Date:

2004.08.03

Last Calib.: 2004.08.03

Start Time: 05:46:05

End Time:

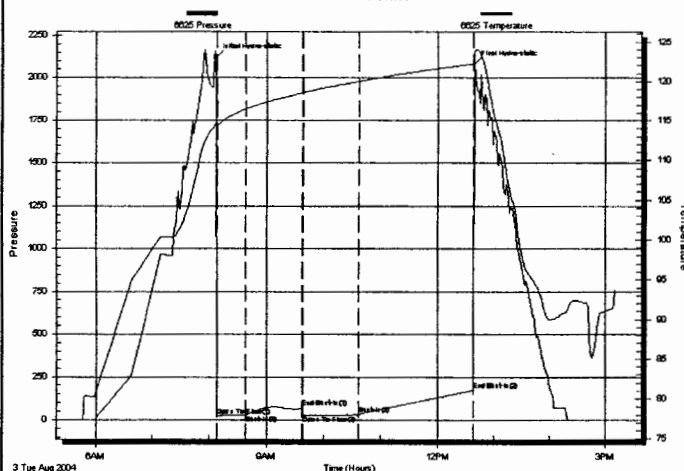
15:10:02

Time On Btm: 2004.08.03 @ 08:07:17

Time Off Btm: 2004.08.03 @ 12:39:32

TEST COMMENT: F: Fair to strong blow b.o.b in 19 mins.
 IS: Bled down n for 5 mins. built back to 1/2" in H2O bucket.
 FF: Weak blow built to 3" in H2O bucket.
 FS: Bled down n for 2 mins. no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2121.78	114.62	Initial Hydro-static
2	20.82	114.26	Open To Flow (1)
31	28.46	116.48	Shut-In (1)
90	71.17	118.53	End Shut-In (1)
91	25.60	118.55	Open To Flow (2)
150	33.93	120.00	Shut-In (2)
271	174.58	122.20	End Shut-In (2)
273	2081.88	123.66	Final Hydro-static

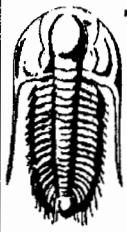
Recovery

Length (ft)	Description	Volume (bbl)
0.00	208' of gip	0.00
40.00	G&OCM 10% gas 8% oil 82% mud	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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NOV 30 2004



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

CONSERVATION DIVISION
WICHITA, KS **TOOL DIAGRAM**

Woolsey Operating, Co. LLC

Clarke #2

125 N. Market suite 1000
Wichita, Kansas. 67202

5-32s-12w

Job Ticket: 19711

DST#: 2

ATTN: Mikeal K. Maune

Test Start: 2004.08.03 @ 05:46:02

Tool Information

Drill Pipe:	Length: 4200.00 ft	Diameter: 3.80 inches	Volume: 58.91 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 59.06 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4243.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	78.00 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			4215.00	
Shut In Tool	5.00			4220.00	
Hydraulic tool	5.00			4225.00	
Jars	5.00			4230.00	
Safety Joint	3.00			4233.00	
Packer	5.00			4238.00	29.00 Bottom Of Top Packer
Packer	5.00			4243.00	
Stubb	1.00			4244.00	
Anchor	14.00			4258.00	
Recorder	0.00	6625	Inside	4258.00	
Blank Spacing	32.00			4290.00	
Recorder	0.00	10991	Outside	4290.00	
Bullnose	2.00			4292.00	49.00 Bottom Packers & Anchor

Total Tool Length: 78.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating, Co. LLC

Clarke #2

125 N. Market suite 1000
Wichita, Kansas. 67202

5-32s-12w

Job Ticket: 19711

DST#: 2

ATTN: Mkeal K. Maune

Test Start: 2004.08.03 @ 05:46:02

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: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 29.95 in³

Gas Cushion Type:

Resistivity: 0.40 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	208' of gip	0.000
40.00	G&OCM 10% gas 8% oil 82% mud	0.279

Total Length: 40.00 ft

Total Volume: 0.279 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

NOV 30 2004

DST Test Number: 2

5-32s-12w

Woolsey Operating Co. LLC

Serial #: 6625

Pressure vs. Time

