KCC
OCT 1 1 2006
CONFIDENTIAL

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

18 35 16 Comanche KS

McMoran A GU #6

Start Date: 2006.06.25 @ 07:51:42
End Date: 2006.06.25 @ 17:16:42
Job Ticket #: 24865 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION
OCT 1 2 2006
CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Woolsey Operating Co McMoran A GU #6 18 35 16 Comanche KS DST # 1 Miss. 2006.06.25

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24865 **DST#: 1**

Test Start: 2006.06.25 @ 07:51:42

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:28:57
Time Test Ended: 17:16:42

Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 23

Interval: 5280.00 ft (KB) To 5364.00 ft (KB) (TVD)
Total Depth: 5364.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

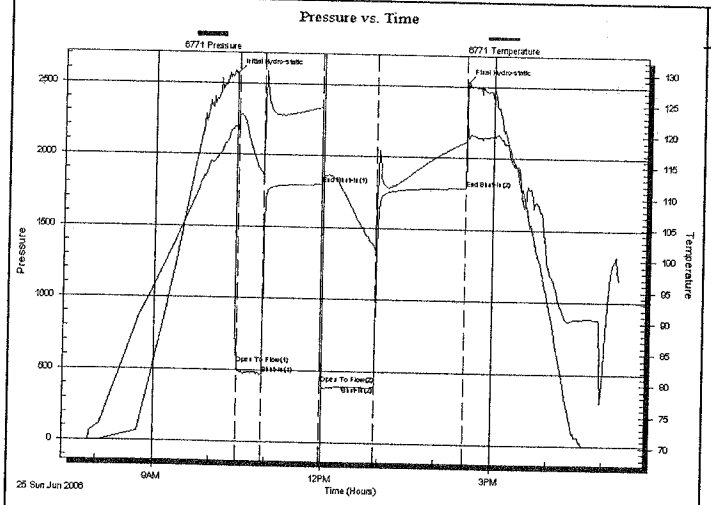
Reference Elevations: 1878.00 ft (KB)
1867.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: 396.10 psig @ 5281.00 ft (KB)
Start Date: 2006.06.25 End Date: 2006.06.25
Start Time: 07:51:47 End Time: 17:16:42

Capacity: 7000.00 psig
Last Calib.: 2006.06.25
Time On Btm: 2006.06.25 @ 10:26:42
Time Off Btm: 2006.06.25 @ 14:31:26

TEST COMMENT: IF Strong blow GTS in 2 min (see gas flow report)
ISI Venting
FF Strong blow (see gas flow report)
FSI Venting



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2570.97	120.97	Initial Hydro-static
3	537.07	122.21	Open To Flow (1)
30	471.64	113.27	Shut-In(1)
91	1797.34	124.23	End Shut-In(1)
93	411.52	112.84	Open To Flow (2)
150	396.10	101.26	Shut-In(2)
244	1785.29	119.05	End Shut-In(2)
245	2526.22	122.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	DM	1.90

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	50.00	1851.42
Last Gas Rate	1.00	60.00	2138.91
Max. Gas Rate	1.00	60.00	2138.91

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC.

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24865 **DST#: 1**

Test Start: 2006.06.25 @ 07:51:42

Tool Information

Drill Pipe:	Length:	5226.00 ft	Diameter:	3.80 inches	Volume:	73.31 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:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		79000.00 lb
					Total Volume:	73.46 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		3.00 ft					String Weight:	Initial	66000.00 lb
Depth to Top Packer:		5280.00 ft						Final	68000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		84.00 ft							
Tool Length:		111.00 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			5254.00		
Shut In Tool	5.00			5259.00		
Hydraulic tool	5.00			5264.00		
Jars	5.00			5269.00		
Safety Joint	2.00			5271.00		
Packer	4.00			5275.00	27.00	Bottom Of Top Packer
Packer	5.00			5280.00		
Stubb	1.00			5281.00		
Recorder	0.00	6771	Inside	5281.00		
Perforations	5.00			5286.00		
Change Over Sub	1.00			5287.00		
Blank Spacing	63.00			5350.00		
Change Over Sub	1.00			5351.00		
Perforations	8.00			5359.00		
Recorder	0.00	13222	Outside	5359.00		
Bullnose	5.00			5364.00	84.00	Bottom Packers & Anchor
Total Tool Length:	**111.00**					

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DRILL STEM TEST REPORT

FLUID SUMMARY

TRILOBITE TESTING, INC.

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24865 **DST#: 1**

Test Start: 2006.06.25 @ 07:51:42

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:	4000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	DM	1.901

Total Length: 155.00 ft Total Volume: 1.901 bbl

Num Fluid Samples: 0 Num Gas Bombs: 1 Serial #: gp-1

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

TRILOBITE TESTING, INC.

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24865 **DST#: 1**

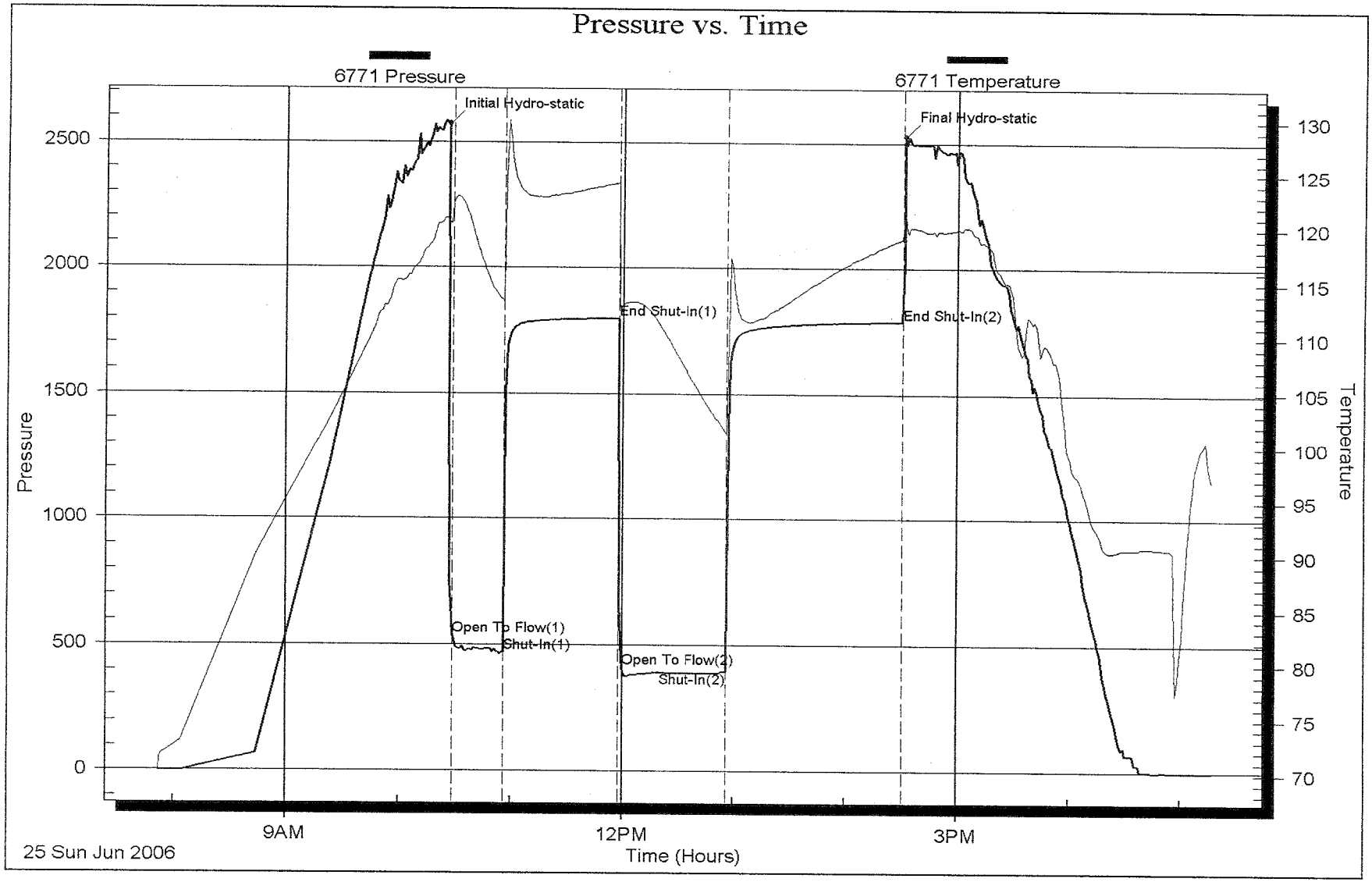
Test Start: 2006.06.25 @ 07:51:42

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m^3/d)
1	10	1.00	50.00	1851.42
1	10	1.00	50.00	1851.42
1	20	1.00	54.00	1966.42
1	30	1.00	56.00	2023.92
2	10	1.00	54.00	1966.42
2	20	1.00	59.00	2110.16
2	30	1.00	60.00	2138.91
2	40	1.00	60.00	2138.91
2	60	1.00	60.00	2138.91


Pressure vs. Time
6771 Pressure
6771 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2500
2000
1500
1000
500
0
130
125
120
115
110
105
100
95
90
85
80
75
70
9AM
12PM
3PM
Time (Hours)
25 Sun Jun 2006

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

18 35 16 Comanche KS

McMoran A GU #6

Start Date: 2006.06.26 @ 03:32:28

End Date: 2006.06.26 @ 14:19:43

Job Ticket #: 24866 DST #: 2

RECEIVED
KANSAS CORPORATION COMMISSION
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CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24866 **DST#: 2**

Test Start: 2006.06.26 @ 03:32:28

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:24:28
Time Test Ended: 14:19:43

Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 23

Interval: 5352.00 ft (KB) To 5404.00 ft (KB) (TVD)
Total Depth: 5404.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

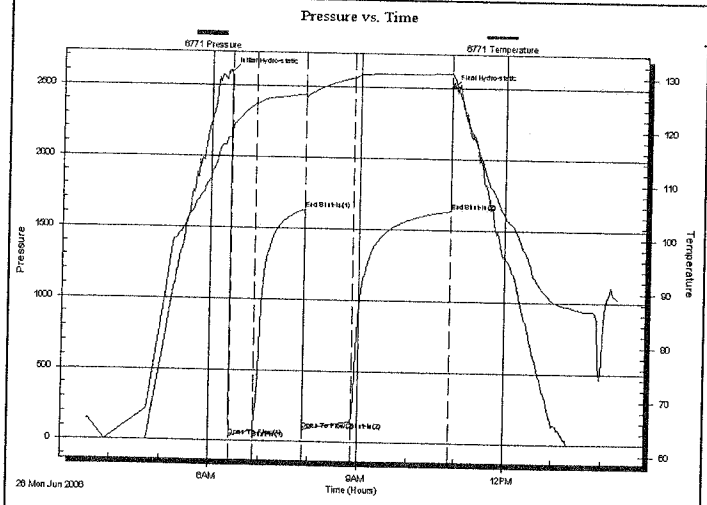
Reference Elevations: 1878.00 ft (KB)
1867.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: 146.83 psig @ 5353.00 ft (KB)
Start Date: 2006.06.26 End Date: 2006.06.26
Start Time: 03:32:33 End Time: 14:19:43

Capacity: 7000.00 psig
Last Calib.: 2006.06.26
Time On Btm: 2006.06.26 @ 06:23:28
Time Off Btm: 2006.06.26 @ 10:53:27

TEST COMMENT: IF Strong blow BOB in 2 min
ISI Weak blow 1/2 "
FF Strong blow BOB in 6 1/2 min
FSI Weak blow 1 - 2 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2597.00	118.39	Initial Hydro-static
1	32.30	118.55	Open To Flow (1)
30	74.46	124.57	Shut-In(1)
89	1632.14	126.46	End Shut-In(1)
90	86.53	125.92	Open To Flow (2)
148	146.83	129.67	Shut-In(2)
270	1632.61	130.64	End Shut-In(2)
270	2499.78	130.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	MW 5%M 95%W Rw .06 OHMS@82 deg.	1.90
125.00	GCM 18%G 82%M	1.75
0.00	1197' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC.

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24866 **DST#: 2**

Test Start: 2006.06.26 @ 03:32:28

Tool Information

Drill Pipe:	Length:	5299.00 ft	Diameter:	3.80 inches	Volume:	74.33 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:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		76000.00 lb
					Total Volume:	74.48 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		4.00 ft					String Weight:	Initial	68000.00 lb
Depth to Top Packer:		5352.00 ft						Final	67000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		52.00 ft							
Tool Length:		79.00 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			5326.00		
Shut In Tool	5.00			5331.00		
Hydraulic tool	5.00			5336.00		
Jars	5.00			5341.00		
Safety Joint	2.00			5343.00		
Packer	4.00			5347.00	27.00	Bottom Of Top Packer
Packer	5.00			5352.00		
Stubb	1.00			5353.00		
Recorder	0.00	6771	Inside	5353.00		
Perforations	5.00			5358.00		
Change Over Sub	1.00			5359.00		
Blank Spacing	31.00			5390.00		
Change Over Sub	1.00			5391.00		
Perforations	8.00			5399.00		
Recorder	0.00	13222	Outside	5399.00		
Bullnose	5.00			5404.00	52.00	Bottom Packers & Anchor
Total Tool Length:	**79.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TRILOBITE TESTING, INC.

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24866 **DST#: 2**

Test Start: 2006.06.26 @ 03:32:28

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:	119000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

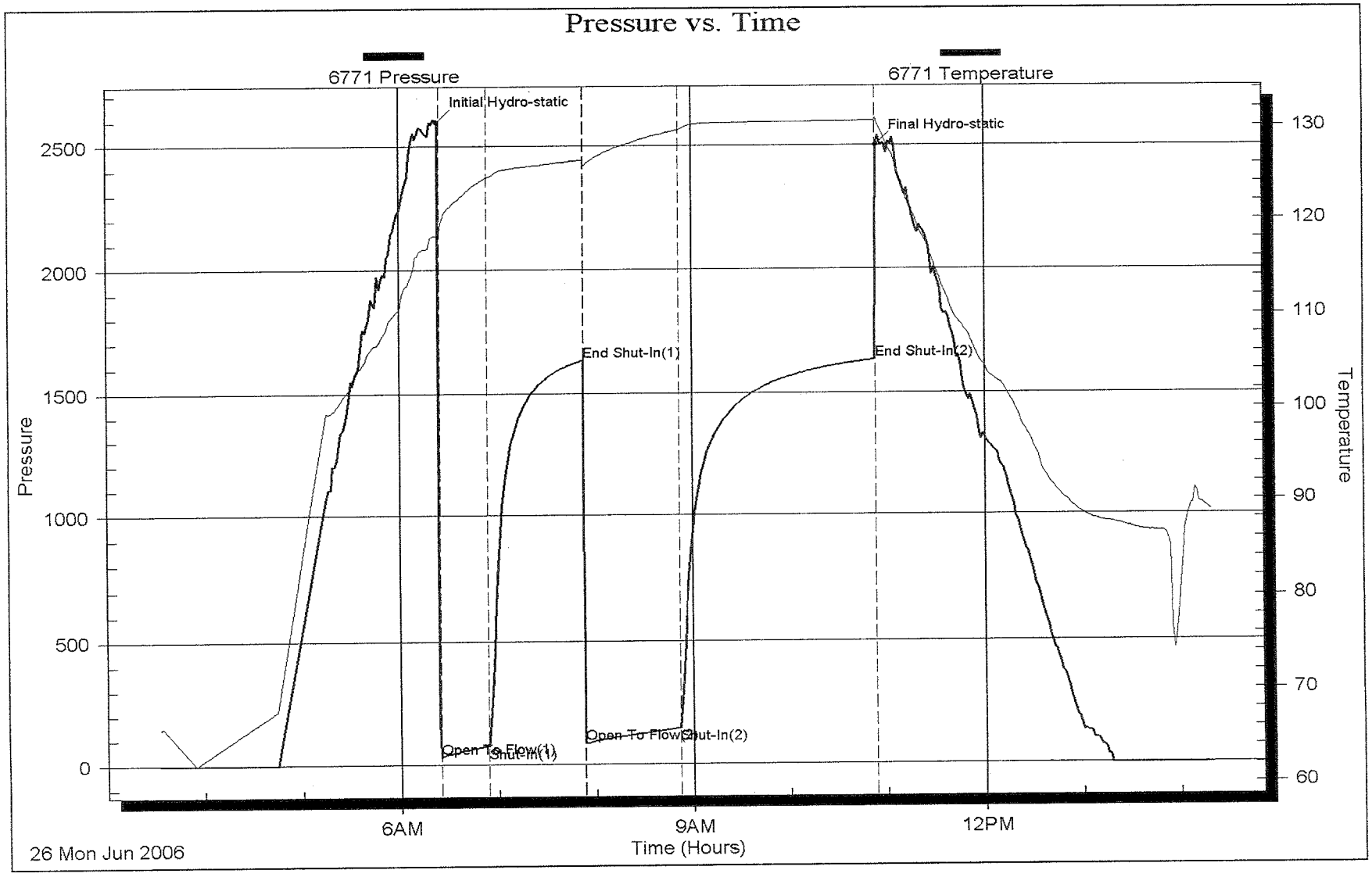
Length ft	Description	Volume bbl
155.00	MW 5%M 95%W Rw .06 OHMS@82 deg.	1.901
125.00	GCM 18%G 82%M	1.753
0.00	1197' GIP	0.000

Total Length: 280.00 ft Total Volume: 3.654 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6771 Pressure
6771 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2500
2000
1500
1000
500
0
130
120
110
100
90
80
70
60
6AM
9AM
12PM
Time (Hours)
26 Mon Jun 2006

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Operating Co**

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

18 35 16 Comanche KS

McMoran A GU #6

Start Date: 2006.06.28 @ 01:21:27

End Date: 2006.06.28 @ 11:31:42

Job Ticket #: 24867 DST #: 3

RECEIVED
KANSAS CORPORATION COMMISSION
OCT 1 2 2006
CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24867 **DST#: 3**

Test Start: 2006.06.28 @ 01:21:27

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:13:27
Time Test Ended: 11:31:42

Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 23

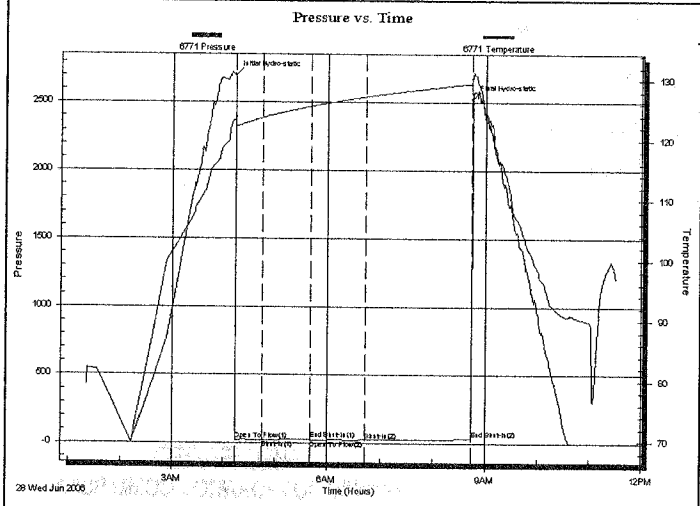
Interval: 5568.00 ft (KB) To 5650.00 ft (KB) (TVD)
Total Depth: 5650.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1878.00 ft (KB)
1867.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6771 **Inside**

Press@RunDepth:	26.99 psig @	5569.00 ft (KB)		Capacity:	7000.00 psig
Start Date:	2006.06.28	End Date:	2006.06.28	Last Calib.:	2006.06.28
Start Time:	01:21:32	End Time:	11:31:42	Time On Btm:	2006.06.28 @ 04:13:12
				Time Off Btm:	2006.06.28 @ 08:44:26

TEST COMMENT: IF Weak blow 1/2 "
ISI No blow
FF No blow
FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2703.17	123.38	Initial Hydro-static
1	22.73	122.52	Open To Flow (1)
32	23.47	123.75	Shut-In(1)
88	30.33	125.66	End Shut-In(1)
88	24.78	125.67	Open To Flow (2)
151	26.99	127.25	Shut-In(2)
271	34.83	129.50	End Shut-In(2)
272	2527.80	131.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	DM	0.03

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24867 **DST#: 3**

Test Start: 2006.06.28 @ 01:21:27

Tool Information

Drill Pipe:	Length:	5521.00 ft	Diameter:	3.80 inches	Volume:	77.45 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:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	77.60 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		5568.00 ft						Final	69000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		82.00 ft							
Tool Length:		109.00 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			5542.00		
Shut In Tool	5.00			5547.00		
Hydraulic tool	5.00			5552.00		
Jars	5.00			5557.00		
Safety Joint	2.00			5559.00		
Packer	4.00			5563.00	27.00	Bottom Of Top Packer
Packer	5.00			5568.00		
Stubb	1.00			5569.00		
Recorder	0.00	6771	Inside	5569.00		
Perforations	5.00			5574.00		
Change Over Sub	1.00			5575.00		
Blank Spacing	61.00			5636.00		
Change Over Sub	1.00			5637.00		
Perforations	8.00			5645.00		
Recorder	0.00	13222	Outside	5645.00		
Bullnose	5.00			5650.00	82.00	Bottom Packers & Anchor
Total Tool Length:	**109.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TRILOBITE TESTING, INC.

Woolsey Operating Co

125 N Market Ste1000
Wichita KS 67202

ATTN: Curtis Covey

McMoran A GU #6

18 35 16 Comanche KS

Job Ticket: 24867 **DST#: 3**

Test Start: 2006.06.28 @ 01:21:27

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:	8000 ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

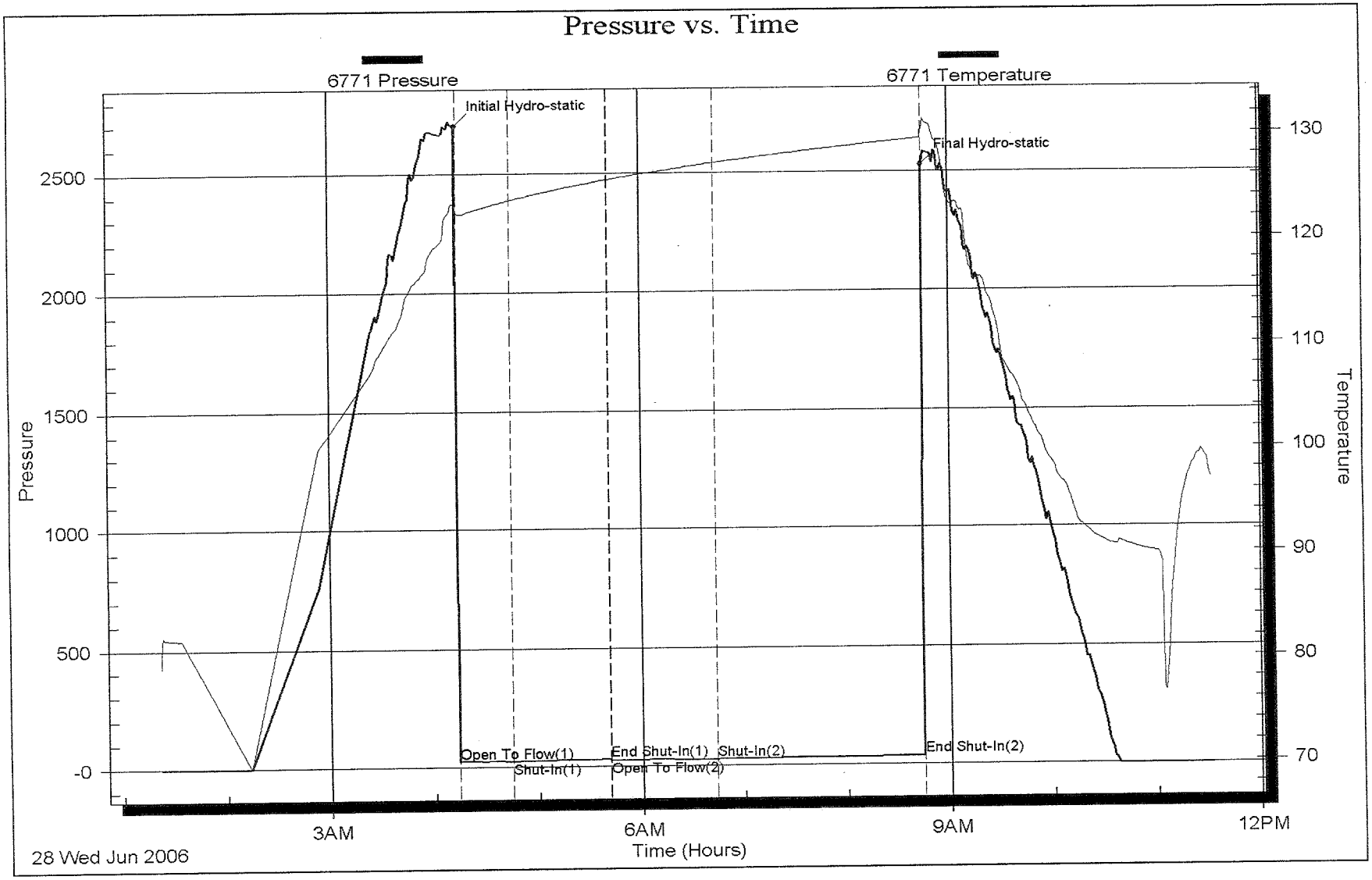
Length ft	Description	Volume bbl
6.00	DM	0.030

Total Length: 6.00 ft Total Volume: 0.030 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: LCM 6#/bbl


Pressure vs. Time
6771 Pressure
6771 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure
2500
2000
1500
1000
500
-0
Temperature
130
120
110
100
90
80
70
3AM
6AM
9AM
12PM
Time (Hours)
28 Wed Jun 2006

206115