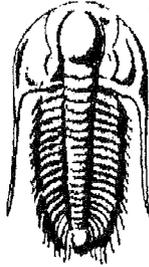


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APR 10 2006

CONSERVATION DIVISION
WICHITA, KS

KCC
APR 10 2006
CONFIDENTIAL



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.Co.LLC**

125 N. Market Ste. 1000
Wichita Ks. 67202

ATTN: Roger L. Martin

17-30s-5w Kingman Ks

Thorne #1

Start Date: 2005.12.17 @ 15:40:25

End Date: 2005.12.17 @ 23:45:40

Job Ticket #: 22009 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Woolsey Oper.Co.LLC

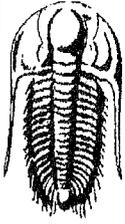
Thorne #1

17-30s-5w Kingman Ks

DST # 1

KC-Dennis

2005.12.17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper.Co.LLC
 125 N.Market Ste.1000
 Wichita Ks.67202
 ATTN: Roger L.Martin

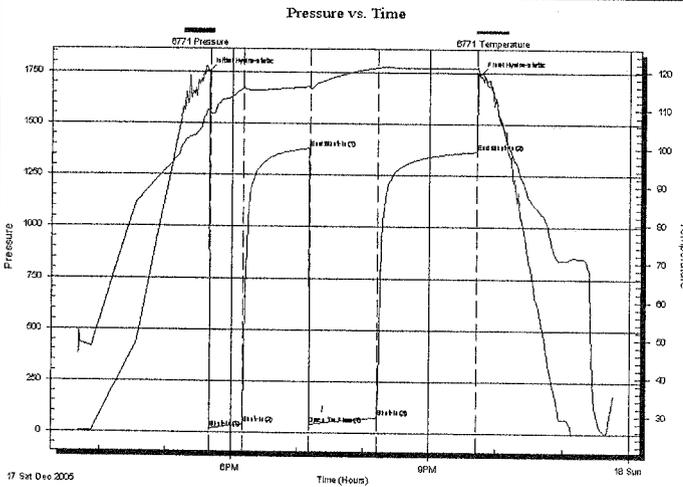
Thorne #1
17-30s-5w Kingman Ks
 Job Ticket: 22009 **DST#: 1**
 Test Start: 2005.12.17 @ 15:40:25

GENERAL INFORMATION:

Formation: **KC-Dennis**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 19:11:25
 Time Test Ended: 23:45:40
 Interval: **3620.00 ft (KB) To 3642.00 ft (KB) (TVD)**
 Total Depth: **3642.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Gary Pevoteaux**
 Unit No: **23**
 Reference Elevations: **1428.00 ft (KB)**
1420.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6771 **Inside**
 Press@RunDepth: **78.64 psig @ 3621.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2005.12.17** End Date: **2005.12.17** Last Calib.: **2005.12.17**
 Start Time: **15:40:30** End Time: **23:45:39** Time On Btm: **2005.12.17 @ 17:38:25**
 Time Off Btm: **2005.12.17 @ 21:45:10**

TEST COMMENT: IF:Weak blow . Slow increase to 5".
 IS:No blow .
 FF:Weak blow . Slow increase to 4".
 FS:No blow .



PRESSURE SUMMARY

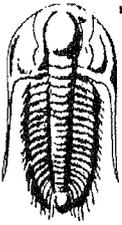
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.22	109.84	Initial Hydro-static
2	17.25	109.04	Shut-In(1)
32	39.25	115.59	Shut-In(2)
93	1379.74	116.03	End Shut-In(1)
93	40.12	115.49	Open To Flow (1)
154	78.64	121.06	Shut-In(3)
245	1365.98	121.04	End Shut-In(2)
247	1742.89	119.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MW 8% m 92% w Rw .14 ohms @ 41 dec	1.75

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.Co.LLC

Thorne #1

125 N.Market Ste.1000
Wichita Ks.67202

17-30s-5w Kingman Ks

Job Ticket: 22009

DST#: 1

ATTN: Roger L.Martin

Test Start: 2005.12.17 @ 15:40:25

Tool Information

Drill Pipe:	Length: 3613.00 ft	Diameter: 3.80 inches	Volume: 50.68 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 50.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3620.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 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			3594.00	
Shut In Tool	5.00			3599.00	
Hydraulic tool	5.00			3604.00	
Jars	5.00			3609.00	
Safety Joint	2.00			3611.00	
Packer	4.00			3615.00	27.00 Bottom Of Top Packer
Packer	5.00			3620.00	
Stubb	1.00			3621.00	
Recorder	0.00	6771	Inside	3621.00	
Perforations	16.00			3637.00	
Recorder	0.00	13222	Outside	3637.00	
Bullnose	5.00			3642.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.Co.LLC

Thorne #1

125 N.Market Ste.1000
Wichita Ks.67202

17-30s-5w Kingman Ks

Job Ticket: 22009

DST#: 1

ATTN: Roger L.Martin

Test Start: 2005.12.17 @ 15:40:25

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:

96000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MW 8% _m 92% _w R _w .14 ohms @ 41 deg.	1.753

Total Length: 125.00 ft

Total Volume: 1.753 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

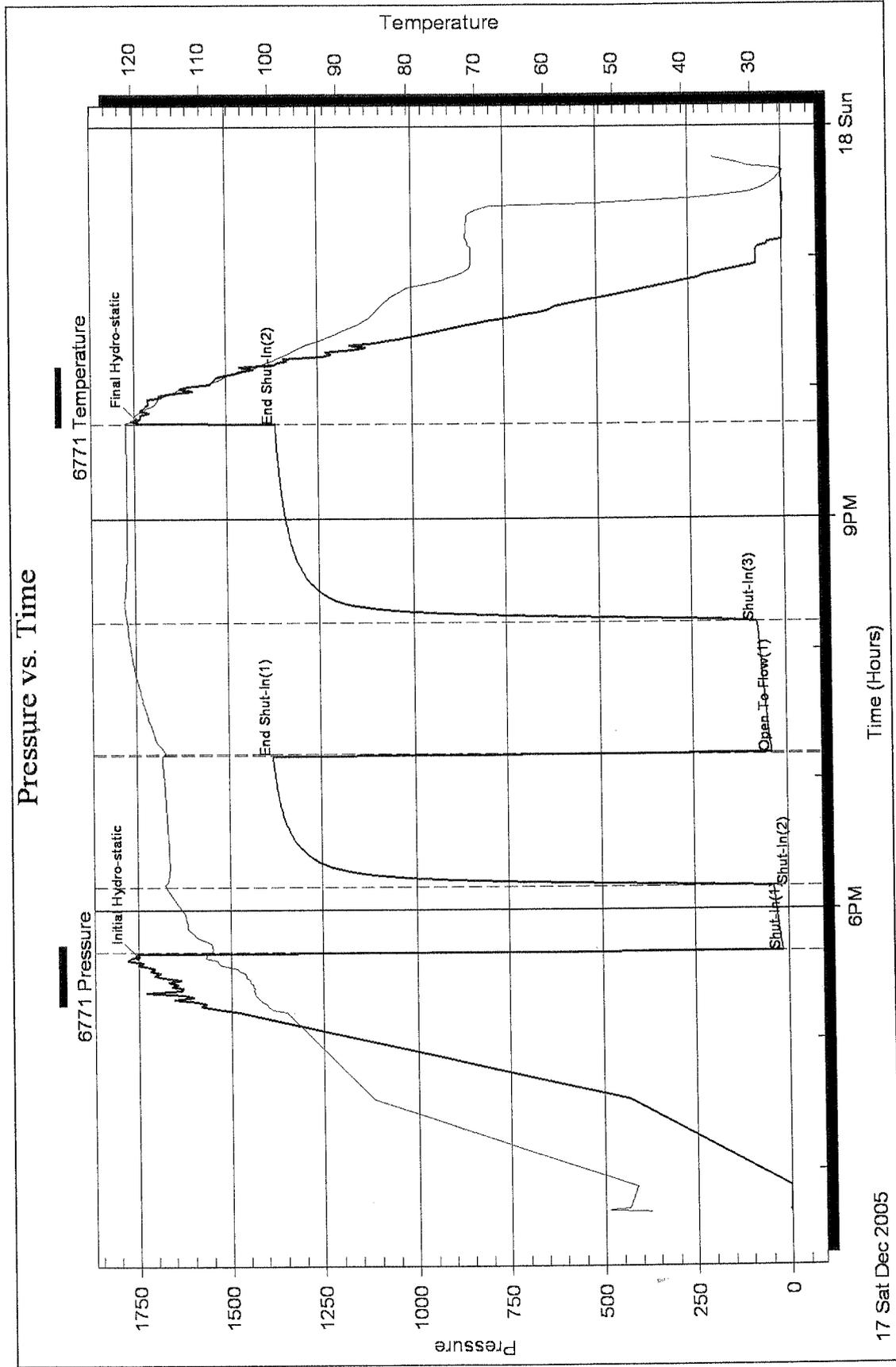
Inside

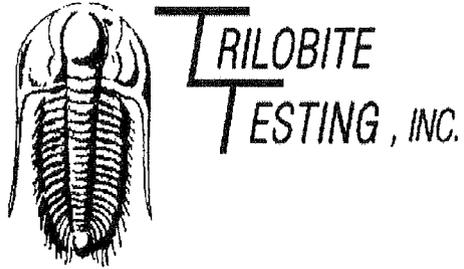
Woodsey Oper.Co.LLC

17-30s-5w Kingman Ks

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.Co.LLC**

125 N. Market Ste. 1000
Wichita Ks. 67202

ATTN: Roger L. Martin

17-30s-5w Kingman Ks

Thorne #1

Start Date: 2005.12.18 @ 07:44:45

End Date: 2005.12.18 @ 16:11:15

Job Ticket #: 22010 DST #: 2

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Oper.Co.LLC

125 N.Market Ste.1000
Wichita Ks.67202

ATTN: Roger L.Martin

Thorne #1

17-30s-5w Kingman Ks

Job Ticket: 22010

DST#: 2

Test Start: 2005.12.18 @ 07:44:45

GENERAL INFORMATION:

Formation: **Swope**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 09:56:15

Time Test Ended: 16:11:15

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: 3642.00 ft (KB) To 3678.00 ft (KB) (TVD)

Total Depth: **3678.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1428.00 ft (KB)**

1420.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 6771

Inside

Press@RunDepth: **176.79 psig @ 3643.00 ft (KB)**

Start Date: **2005.12.18**

End Date: **2005.12.18**

Start Time: **07:44:50**

End Time: **16:11:14**

Capacity: **7000.00 psig**

Last Calib.: **2005.12.18**

Time On Btm: **2005.12.18 @ 09:52:00**

Time Off Btm: **2005.12.18 @ 14:02:45**

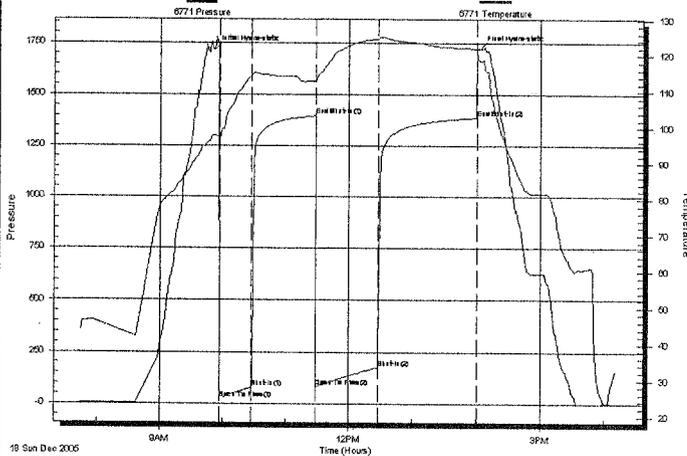
TEST COMMENT: IF:Strong blow . B.O.B. in 27 mins.

ISI:No blow .

FF:Fair to strong blow . B.O.B. in 48 mins.

FSI:No blow .

Pressure vs. Time



PRESSURE SUMMARY

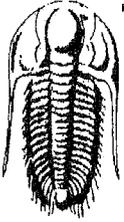
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.43	97.98	Initial Hydro-static
5	24.49	96.84	Open To Flow (1)
35	78.78	114.69	Shut-In(1)
97	1397.20	113.09	End Shut-In(1)
97	84.50	112.75	Open To Flow (2)
155	176.79	124.62	Shut-In(2)
248	1388.14	122.06	End Shut-In(2)
251	1721.35	118.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	SW Rw .14 ohms @ 44 deg.	2.67
125.00	MW 18%m 82%w	1.75
20.00	HHeavy mud	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper. Co. LLC

Thorne #1

125 N. Market Ste. 1000
Wichita Ks. 67202

17-30s-5w Kingman Ks

Job Ticket: 22010

DST#: 2

ATTN: Roger L. Martin

Test Start: 2005.12.18 @ 07:44:45

Tool Information

Drill Pipe:	Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 77000.00 lb
			<u>Total Volume: 51.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3642.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 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			3616.00	
Shut In Tool	5.00			3621.00	
Hydraulic tool	5.00			3626.00	
Jars	5.00			3631.00	
Safety Joint	2.00			3633.00	
Packer	4.00			3637.00	27.00 Bottom Of Top Packer
Packer	5.00			3642.00	
Stubb	1.00			3643.00	
Recorder	0.00	6771	Inside	3643.00	
Perforations	30.00			3673.00	
Recorder	0.00	13222	Outside	3673.00	
Bullnose	5.00			3678.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.Co.LLC

Thorne #1

125 N.Market Ste.1000
Wichita Ks.67202

17-30s-5w Kingman Ks

Job Ticket: 22010

DST#: 2

ATTN: Roger L.Martin

Test Start: 2005.12.18 @ 07:44:45

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:

91000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.78 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
190.00	SW Rw .14 ohms @ 44 deg.	2.665
125.00	MW 18% _m 82% _w	1.753
20.00	HHeavy mud	0.281

Total Length: 335.00 ft

Total Volume: 4.699 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

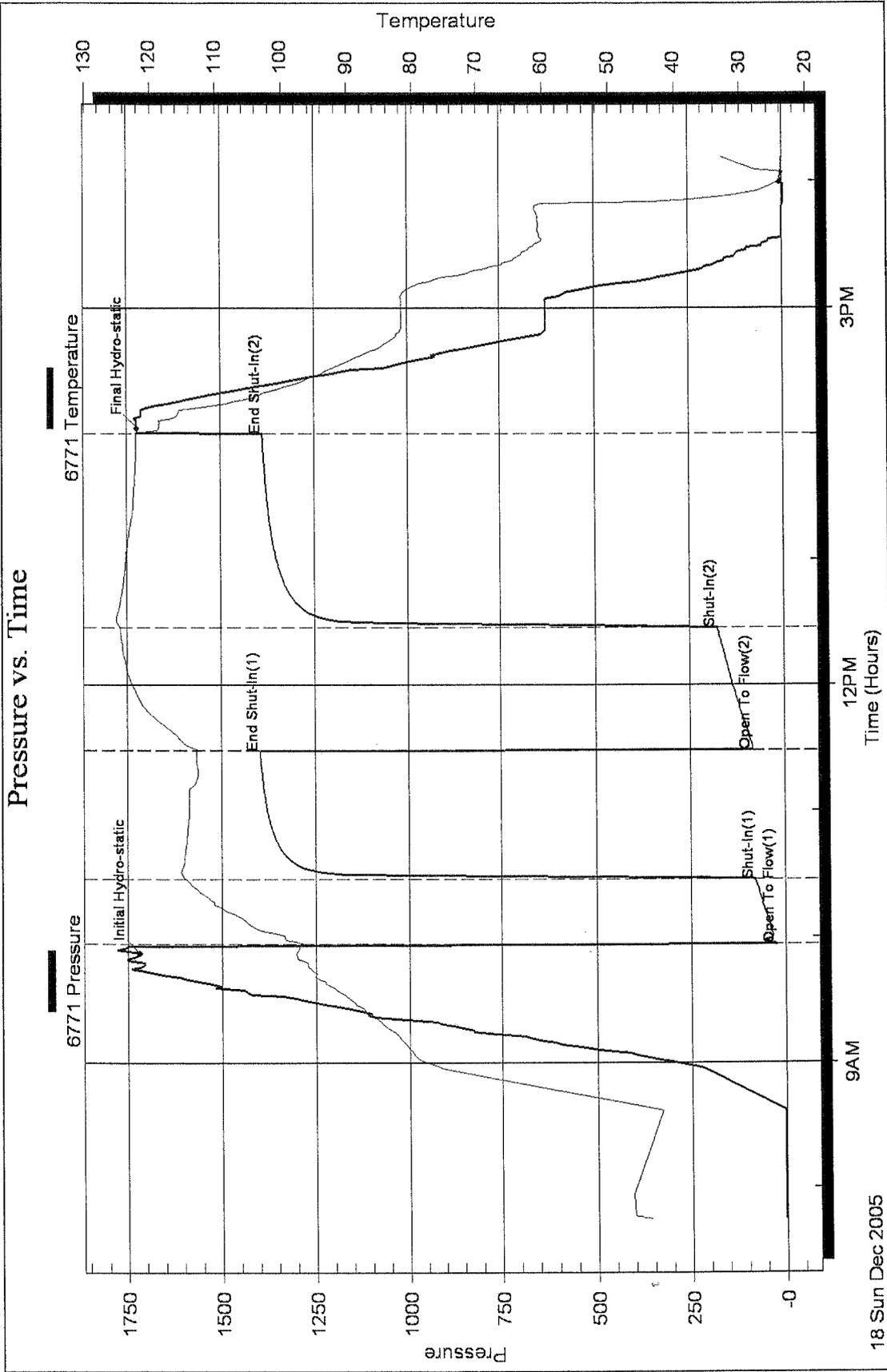
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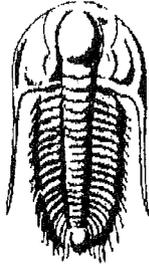
Inside

Woodsey Oper.Co.LLC

17-30s-5w Kingman Ks

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper.Co.LLC**

125 N.Market Ste.1000
Wichita Ks.67202

ATTN: Roger L.Martin

17-30s-5w Kingman Ks

Thorne #1

Start Date: 2005.12.21 @ 09:52:00

End Date: 2005.12.21 @ 18:50:15

Job Ticket #: 22011 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Woolsey Oper.Co.LLC

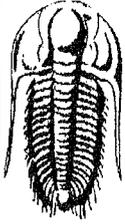
Thorne #1

17-30s-5w Kingman Ks

DST # 3

Viola

2005.12.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper.Co.LLC
 125 N.Market Ste.1000
 Wichita Ks.67202
 ATTN: Roger L.Martin

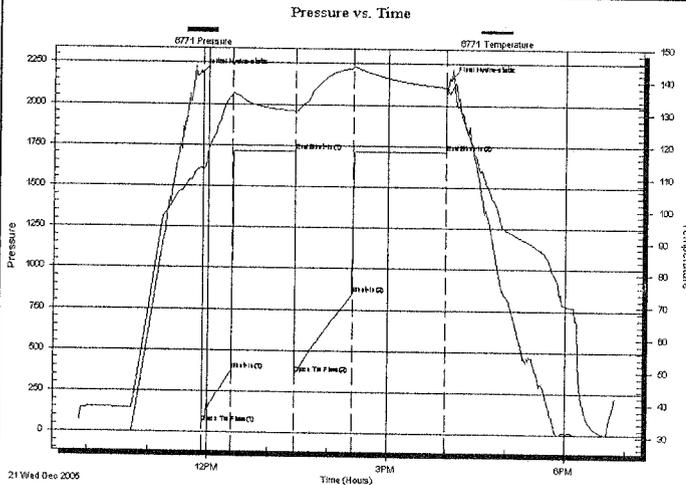
Thorne #1
17-30s-5w Kingman Ks
 Job Ticket: 22011 **DST#: 3**
 Test Start: 2005.12.21 @ 09:52:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 11:54:45 Test Type: Conventional Bottom Hole
 Time Test Ended: 18:50:15 Tester: Gary Pevoteaux
 Unit No: 23
 Interval: **4450.00 ft (KB) To 4568.00 ft (KB) (TVD)** Reference Elevations: 1428.00 ft (KB)
 Total Depth: **4568.00 ft (KB) (TVD)** 1420.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6771 Inside
 Press@RunDepth: 843.78 psig @ 4451.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2005.12.21 End Date: 2005.12.21 Last Calib.: 2005.12.21
 Start Time: 09:52:05 End Time: 18:50:15 Time On Btm: 2005.12.21 @ 11:53:15
 Time Off Btm: 2005.12.21 @ 16:03:15

TEST COMMENT: IF:Strong blow . B.O.B. in 5 mins.
 IS:No blow .
 FF:Strong blow . B.O.B. in 6 mins.
 FS:No blow .



PRESSURE SUMMARY

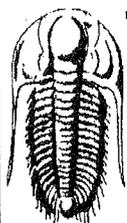
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.73	112.98	Initial Hydro-static
2	55.35	112.08	Open To Flow (1)
31	376.65	135.71	Shut-In(1)
94	1715.66	130.72	End Shut-In(1)
94	360.77	130.11	Open To Flow (2)
152	843.78	144.12	Shut-In(2)
246	1715.77	138.32	End Shut-In(2)
250	2155.83	137.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
695.00	GCMW 6%g 3% m 91%w Rw .15 ohms @9.75 deg.	
835.00	MW w/a trace of oil 39% m 61%w	11.71
150.00	WM w/a trace of oil 44%w 56% m	2.10
90.00	Drig.mud	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper.Co.LLC

125 N.Market Ste.1000
Wichita Ks.67202

ATTN: Roger L.Martin

Thorne #1

17-30s-5w Kingman Ks

Job Ticket: 22011

DST#: 3

Test Start: 2005.12.21 @ 09:52:00

Tool Information

Drill Pipe:	Length: 4430.00 ft	Diameter: 3.80 inches	Volume: 62.14 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 93000.00 lb
			<u>Total Volume: 62.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4450.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	118.00 ft			
Tool Length:	145.00 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			4424.00	
Shut In Tool	5.00			4429.00	
Hydraulic tool	5.00			4434.00	
Jars	5.00			4439.00	
Safety Joint	2.00			4441.00	
Packer	4.00			4445.00	27.00 Bottom Of Top Packer
Packer	5.00			4450.00	
Stubb	1.00			4451.00	
Recorder	0.00	6771	Inside	4451.00	
Perforations	5.00			4456.00	
Change Over Sub	1.00			4457.00	
Blank Spacing	94.00			4551.00	
Change Over Sub	1.00			4552.00	
Perforations	11.00			4563.00	
Recorder	0.00	13222	Outside	4563.00	
Bullnose	5.00			4568.00	118.00 Bottom Packers & Anchor
Total Tool Length:	145.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper.Co.LLC
125 N.Market Ste.1000
Wichita Ks.67202
ATTN: Roger L.Martin

Thorne #1
17-30s-5w Kingman Ks
Job Ticket: 22011 **DST#: 3**
Test Start: 2005.12.21 @ 09:52:00

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: 71000 ppm	
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

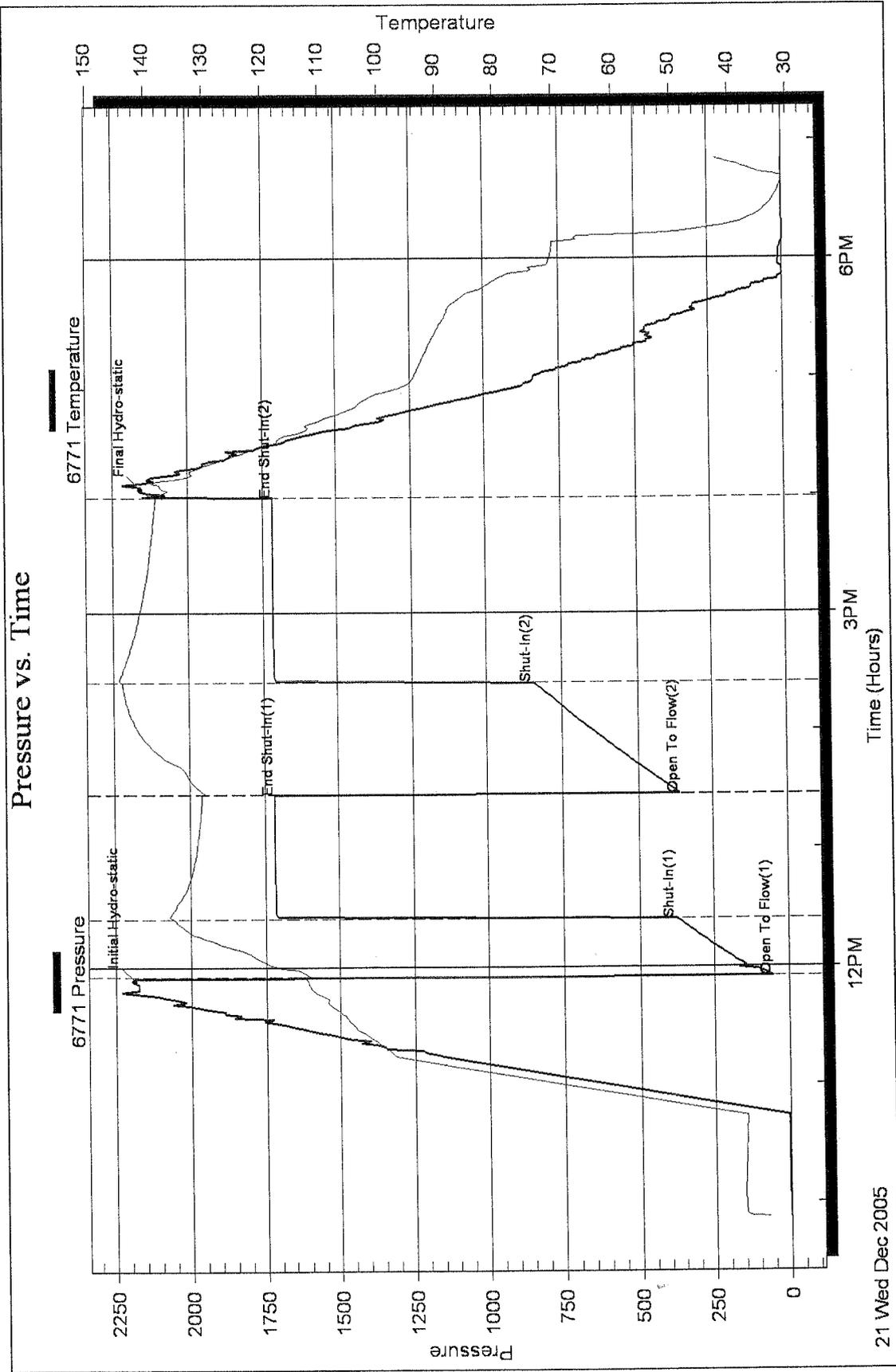
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
695.00	GCMV 6%g 3%m 91%w Rw .15 ohms @ 52	9.749
835.00	MMw /a trace of oil 39%m 61%w	11.713
150.00	VMw /a trace of oil 44%w 56%m	2.104
90.00	Drig.mud	1.262

Total Length: 1770.00 ft Total Volume: 24.828 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



21 Wed Dec 2005