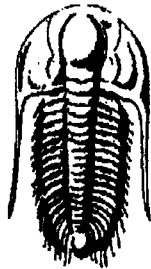


15-033-21384

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pickrell Drlg Co Inc**

100 S Main Ste 505
Wichita Ks 67202

ORIGINAL

ATTN: Larry Richardson

7-33-18-Comanche-Ks

#1 Lousch Farms A

Start Date: 2003.12.06 @ 14:20:17

End Date: 2003.12.07 @ 00:10:17

Job Ticket #: 18417

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drig Co Inc

100 S Main Ste 505
Wichita Ks 67202

ATTN: Larry Richardson

#1 Lousch Farms A

7-33-18-Comanche-Ks

Job Ticket: 18417

DST#: 1

Test Start: 2003.12.06 @ 14:20:17

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:07:17

Time Test Ended: 00:10:17

Interval: **5136.00 ft (KB) To 5155.00 ft (KB) (TVD)**

Total Depth: **5155.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Good

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Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Reference Elevations: 2093.00 ft (KB)

2088.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6755**

Inside

Press@RunDepth: 27.70 psig @ 5137.00 ft (KB)

Start Date: 2003.12.06

End Date:

2003.12.07

Start Time: 14:20:18

End Time:

00:10:17

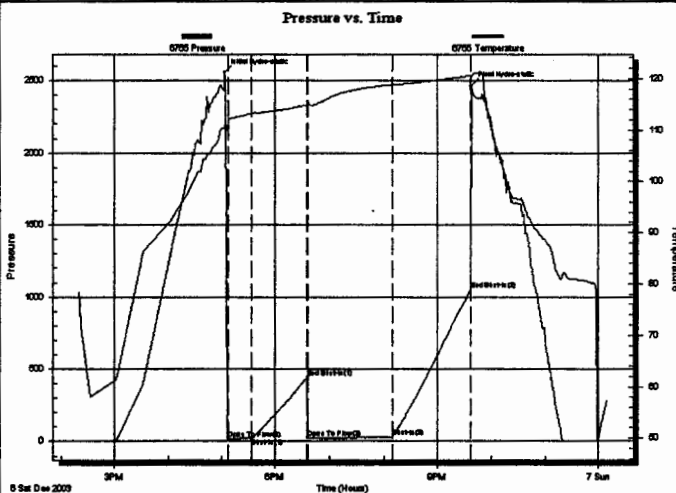
Capacity: 7000.00 psig

Last Calib.: 2003.12.07

Time On Btm: 2003.12.06 @ 17:03:47

Time Off Btm: 2003.12.06 @ 21:37:47

TEST COMMENT: IF-Weak building to strong-BOB in 30 min
FF-Weak building to strong-BOB in 20 min
Times-30-60-90-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2555.43	110.67	Initial Hydro-static
4	16.68	112.02	Open To Flow (1)
30	21.37	113.17	Shut-In(1)
92	441.82	114.84	End Shut-In(1)
93	21.38	115.77	Open To Flow (2)
186	27.70	118.79	Shut-In(2)
273	1046.93	120.56	End Shut-In(2)
274	2467.27	120.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Silty OCM 3%o 97%rm	0.10
0.00	780 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drig Co Inc

100 S Main Ste 505
Wichita Ks 67202

ATTN: Larry Richardson

#1 Lousch Farms A

7-33-18-Comanche-Ks

Job Ticket: 18417

DST#: 1

Test Start: 2003.12.06 @ 14:20:17

Tool Information

Drill Pipe:	Length: 4873.00 ft	Diameter: 3.80 inches	Volume: 68.36 bbl	Tool Weight: 1000.00 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 69.58 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5136.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Bullnose	1.00			5113.00	
Shut In Tool	5.00			5118.00	
Hydraulic tool	5.00			5123.00	
Safety Joint	3.00			5126.00	
Packer	5.00			5131.00	24.00 Bottom Of Top Packer
Packer	5.00			5136.00	
Stubb	1.00			5137.00	
Recorder	0.00	6755	Inside	5137.00	
Perforations	15.00			5152.00	
Recorder	0.00	13254	Outside	5152.00	
Bullnose	3.00			5155.00	19.00 Bottom Packers & Anchor

Total Tool Length: 43.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drig Co Inc

#1 Lousch Farms A

100 S Main Ste 505
Wichita Ks 67202

7-33-18-Comanche-Ks

Job Ticket: 18417

DST#: 1

ATTN: Larry Richardson

Test Start: 2003.12.06 @ 14:20:17

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: 45.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Silty OCM 3%o 97%m	0.098
0.00	780 GIP	0.000

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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DST Test Number: 1

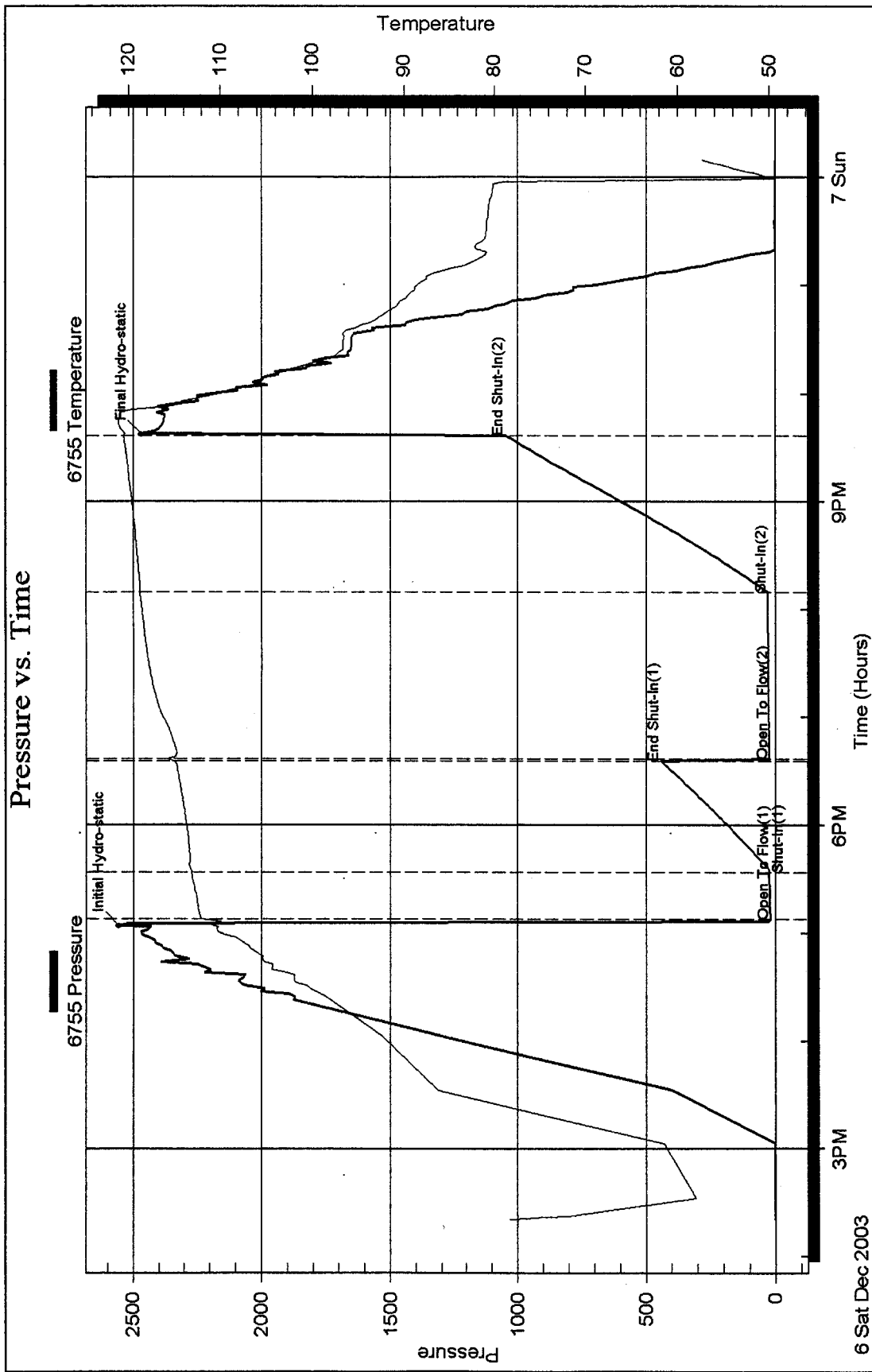
7-33-18-Comanche-Ks

Rockwell Drilg Co Inc

Inside

Serial #: 6755

Pressure vs. Time

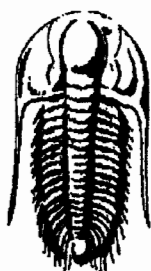


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Ref. No: 18417

Trilobite Testing, Inc

Printed: 2003.12.17 @ 11:12:27 Page 5



**TRILOBITE
TESTING, INC.**

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DRILL STEM TEST REPORT

Prepared For: **Pickrell Drlg Co Inc**

100 S Main Ste 505
Wichita Ks 67202

ATTN: Larry Richardson

7-33-18-Comanche-Ks

#1 Lousch Farms A

Start Date: 2003.12.07 @ 17:15:45

End Date: 2003.12.08 @ 03:32:45

Job Ticket #: 17965 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

Pickrell Drig Co Inc

100 S Main Ste 505
Wichita Ks 67202

ATTN: Larry Richardson

#1 Lousch Farms A

7-33-18-Comanche-Ks

Job Ticket: 17965

DST#: 2

Test Start: 2003.12.07 @ 17:15:45

GENERAL INFORMATION:

Formation: **Pawnee Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:25:00

Time Test Ended: 03:32:45

Interval: **5164.00 ft (KB) To 5210.00 ft (KB) (TVD)**

Total Depth: **5210.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Reference Elevations: 2093.00 ft (KB)

2088.00 ft (CF)

KB to GR/CF: 5.00 ft

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Serial #: **6770**

Inside

Press@RunDepth: 149.86 psig @ 5165.00 ft (KB)

Start Date: 2003.12.07

End Date:

2003.12.08

Start Time: 17:15:50

End Time:

03:32:45

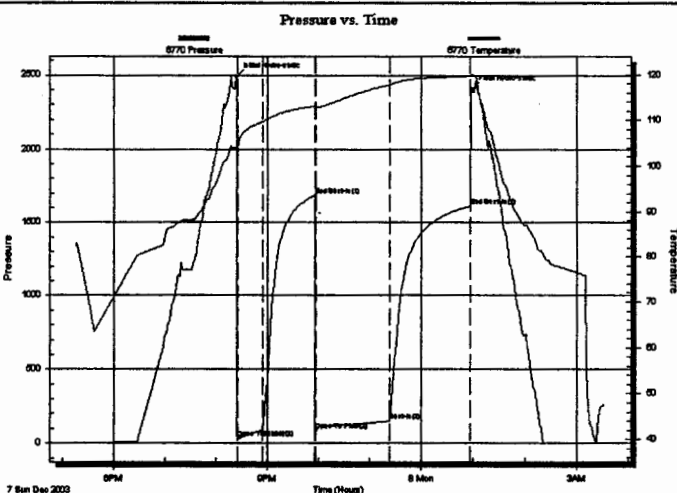
Capacity: 7000.00 psig

Last Calib.: 2003.12.08

Time On Btm: 2003.12.07 @ 20:23:45

Time Off Btm: 2003.12.08 @ 00:59:00

TEST COMMENT: IF: Strong blow . B.O.B. in 3 mins.
IS: No blow .
FF: Strong blow .B.O.B. in 3.5 mins.
FS: Very weak blow . 1/4".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2488.10	104.17	Initial Hydro-static
2	34.61	103.68	Open To Flow (1)
31	90.42	109.63	Shut-In(1)
92	1685.25	113.03	End Shut-In(1)
93	86.09	112.64	Open To Flow (2)
180	149.86	117.71	Shut-In(2)
274	1614.91	119.65	End Shut-In(2)
276	2406.20	119.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MW 12% m 88% w Rw .11 ohms @ 46 de 0.91	
140.00	Drig. mud	1.39

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drig Co Inc

100 S Main Ste 505
Wichita Ks 67202

ATTN: Larry Richardson

#1 Lousch Farms A

7-33-18-Comanche-Ks

Job Ticket: 17965

DST#: 2

Test Start: 2003.12.07 @ 17:15:45

Tool Information

Drill Pipe:	Length: 4906.00 ft	Diameter: 3.80 inches	Volume: 68.82 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 70.04 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	5164.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5143.00	
Shut In Tool	5.00			5148.00	
Hydraulic tool	5.00			5153.00	
Safety Joint	2.00			5155.00	
Packer	4.00			5159.00	22.00 Bottom Of Top Packer
Packer	5.00			5164.00	
Stubb	1.00			5165.00	
Recorder	0.00	6770	Inside	5165.00	
Perforations	5.00			5170.00	
Change Over Sub	1.00			5171.00	
Blank Spacing	31.00			5202.00	
Change Over Sub	1.00			5203.00	
Perforations	2.00			5205.00	
Recorder	0.00	13222	Outside	5205.00	
Bullnose	5.00			5210.00	46.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drig Co Inc

#1 Lousch Farms A

100 S Main Ste 505
Wichita Ks 67202

7-33-18-Comanche-Ks

Job Ticket: 17965

DST#: 2

ATTN: Larry Richardson

Test Start: 2003.12.07 @ 17:15:45

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:

76000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.98 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
185.00	MW 12% _m 88% _w Rw .11 ohms @ 46 deg.	0.910
140.00	Drig.mud	1.390

Total Length: 325.00 ft

Total Volume: 2.300 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

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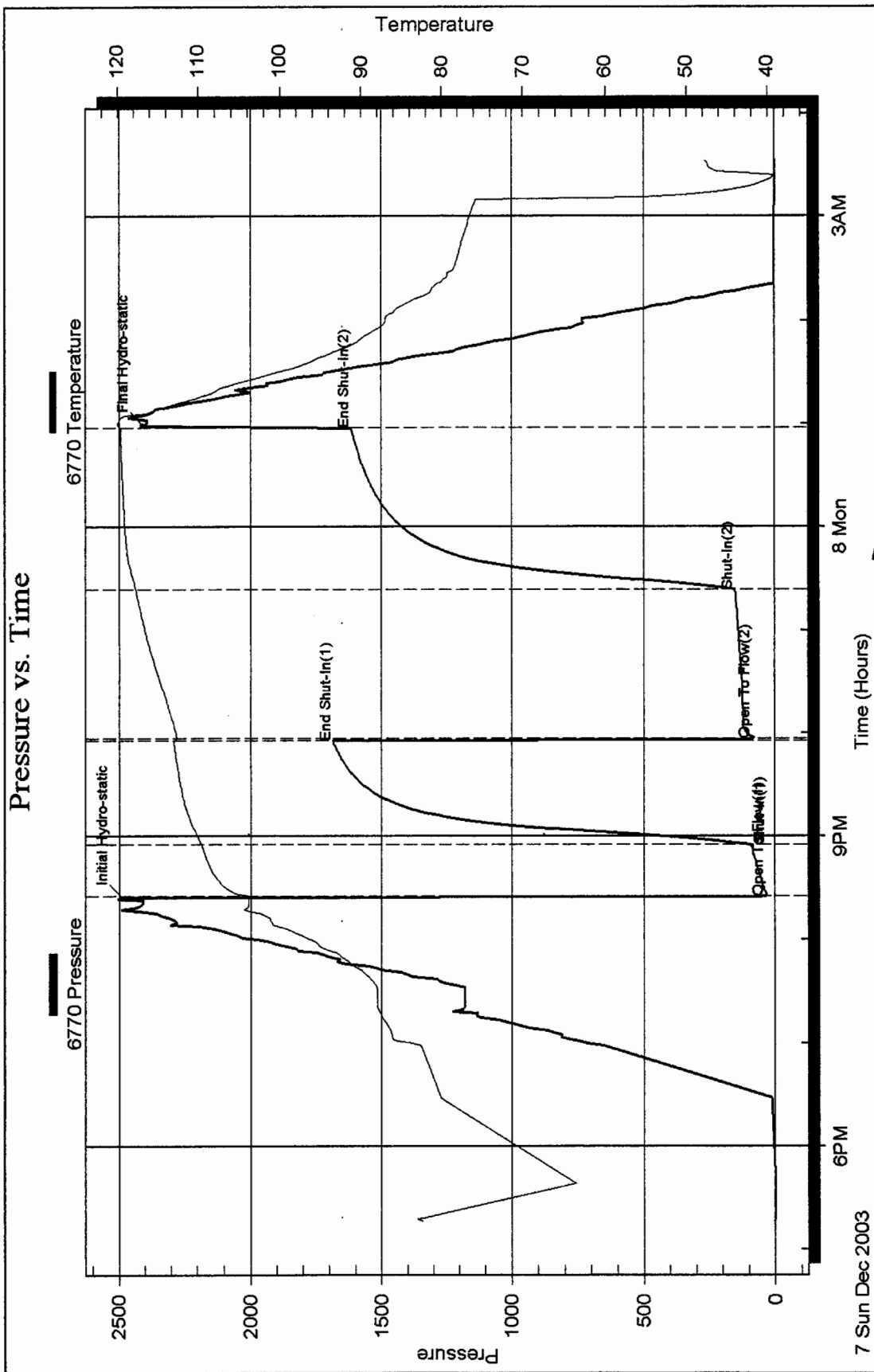
DST Test Number: 2

7-33-18-Comanche-Ks

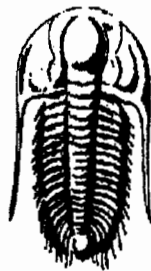
Inside Rickrell Drig Co Inc

Serial #: 6770

Pressure vs. Time



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DRILL STEM TEST REPORT

Prepared For: **Pickrell Drlg Co Inc**

100 S Main Ste 505
Wichita Ks 67202

ATTN: Larry Richardson

7-33-18-Comanche-Ks

#1 Lousch Farms A

Start Date: 2003.12.08 @ 19:22:54

End Date: 2003.12.09 @ 05:15:39

Job Ticket #: 17966 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pickrell Drig Co Inc

100 S Main Ste 505
Wichita Ks 67202

ATTN: Larry Richardson

#1 Lousch Farms A

7-33-18-Comanche-Ks

Job Ticket: 17966

DST#: 3

Test Start: 2003.12.08 @ 19:22:54

GENERAL INFORMATION:

Formation: **Miss**

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

Time Tool Opened: 22:12:39

Time Test Ended: 05:15:39

Interval: **5294.00 ft (KB) To 5340.00 ft (KB) (TVD)**

Total Depth: **5340.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

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Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Reference Elevations: **2093.00 ft (KB)**

2088.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6770**

Inside

Press@RunDepth: **412.81 psig @ 5295.00 ft (KB)**

Start Date: **2003.12.08**

End Date:

2003.12.09

Start Time: **19:22:59**

End Time:

05:15:39

Capacity: **7000.00 psig**

Last Calib.: **2003.12.09**

Time On Btm: **2003.12.08 @ 22:07:54**

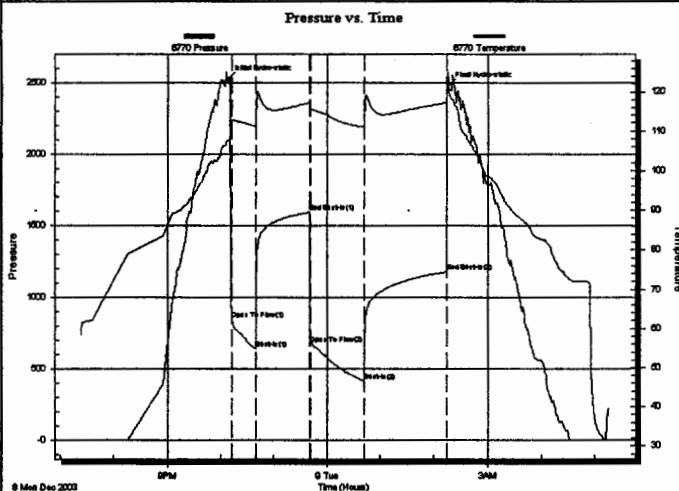
Time Off Btm: **2003.12.09 @ 02:15:54**

TEST COMMENT: IF: Strong blow . GTS in 1.75 mins. (see gas volume report)

IS: Venting throughout.

FF: Strong blow . (see gas volume report)

FS: Venting throughout.



PRESSURE SUMMARY

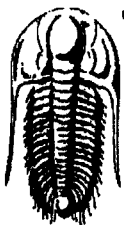
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2521.41	107.50	Initial Hydro-static
5	851.09	112.44	Open To Flow (1)
32	644.21	111.19	Shut-In(1)
93	1595.17	117.18	End Shut-In(1)
94	678.06	114.96	Open To Flow (2)
155	412.81	111.04	Shut-In(2)
247	1180.85	117.27	End Shut-In(2)
248	2477.54	122.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	148.00	4752.04
Last Gas Rate	0.75	151.00	2629.58
Max. Gas Rate	0.75	160.00	2772.66



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drig Co Inc

#1 Lousch Farms A

100 S Main Ste 505
Wichita Ks 67202

7-33-18-Comanche-Ks

Job Ticket: 17966

DST#: 3

ATTN: Larry Richardson

Test Start: 2003.12.08 @ 19:22:54

Tool Information

Drill Pipe:	Length: 5029.00 ft	Diameter: 3.80 inches	Volume: 70.54 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 91000.00 lb
			Total Volume: 71.76 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5294.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5273.00	
Shut In Tool	5.00			5278.00	
Hydraulic tool	5.00			5283.00	
Safety Joint	2.00			5285.00	
Packer	4.00			5289.00	22.00 Bottom Of Top Packer
Packer	5.00			5294.00	
Stubb	1.00			5295.00	
Recorder	0.00	6770	Inside	5295.00	
Perforations	5.00			5300.00	
Change Over Sub	1.00			5301.00	
Blank Spacing	31.00			5332.00	
Change Over Sub	1.00			5333.00	
Perforations	2.00			5335.00	
Recorder	0.00	13222	Outside	5335.00	
Bullnose	5.00			5340.00	46.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drig Co Inc

#1 Lousch Farms A

100 S Main Ste 505
Wichita Ks 67202

7-33-18-Comanche-Ks

Job Ticket: 17966

DST#: 3

ATTN: Larry Richardson

Test Start: 2003.12.08 @ 19:22:54

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.97 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
0.00		0.000

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-3

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

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DST Test Number: 3

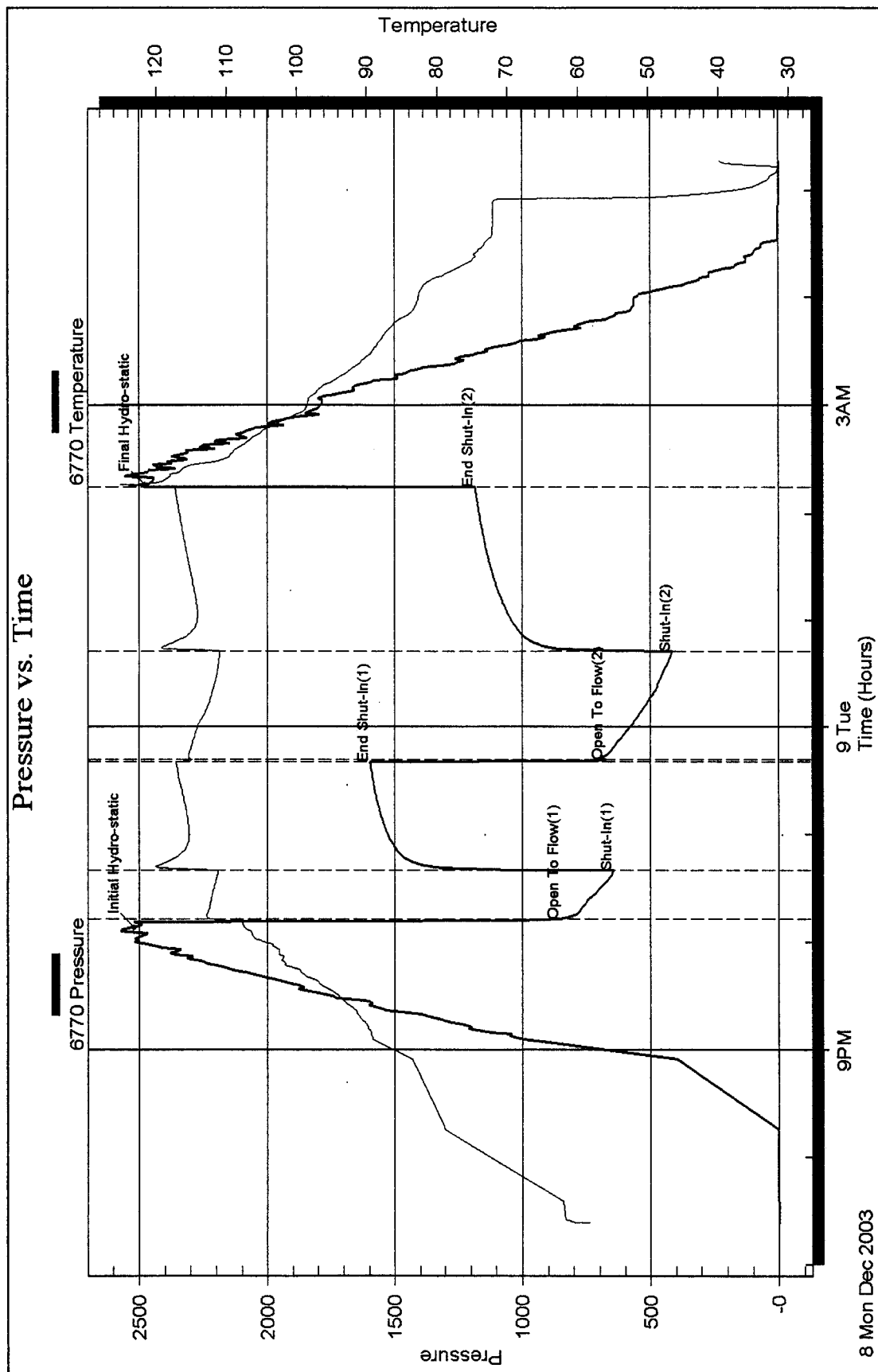
7-33-18-Comanche-Ks

Rockwell Drig Co Inc

Inside

Serial #: 6770

Pressure vs. Time



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Ref. No: 17966

Trilobite Testing, Inc

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