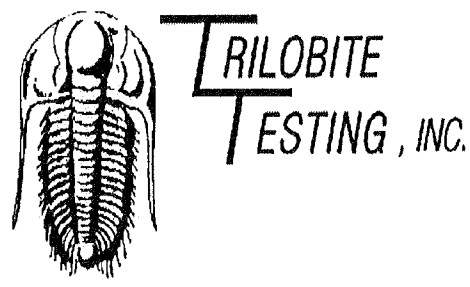


7-15-28W
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DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company**
3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112

ATTN: Todd Morgenstem

7-15S-28W Gove KS.

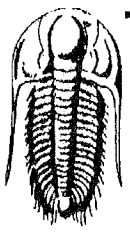
Coberly #2

Start Date: 2002.02.04 @ 13:50:07
End Date: 2002.02.04 @ 20:37:07
Job Ticket #: 15035 DST #: 1

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Russell Oil Company
Coberly #2
7-15S-28W Gove KS.
DST # 1
L/KC "140-180"
2002.02.04

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Company
 3535 N W 58th St. Ste.1060
 Oklahoma City, OK 73112
 ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
 Job Ticket: 15035 DST#: 1
 Test Start: 2002.02.04 @ 13:50:07

Tool Information

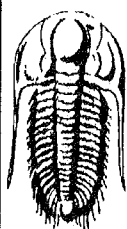
Drill Pipe:	Length: 3390.00 ft	Diameter: 3.80 inches	Volume: 47.55 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.80 inches	Volume: 3.12 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 50.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3812.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.01 ft			
Tool Length:	76.01 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

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Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
S.I. Tool	5.00			3797.00		
HMV	5.00			3802.00		
Packer	5.00			3807.00	20.00	Bottom Of Top Packer
Packer	5.00			3812.00		
Stubb	1.00			3813.00		
Recorder	0.01	3030	Inside	3813.01		
Perforations	12.00			3825.01		
C.O. Sub	1.00			3826.01		
Anchor	31.00			3857.01		
C.O. Sub	1.00			3858.01		
Perforations	5.00			3863.01		
Recorder	0.00	13371	Outside	3863.01		
Bullnose	5.00			3868.01	56.01	Bottom Packers & Anchor

Total Tool Length: 76.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company
3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112
ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
Job Ticket: 15035 **DST#: 1**
Test Start: 2002.02.04 @ 13:50:07

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:	62000 ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	WM 20%w tr 80%mud	0.952
310.00	Wtr 100%	2.521

Total Length: 435.00 ft Total Volume: 3.473 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW.13 @ 70 deg =

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DST Test Number: 1

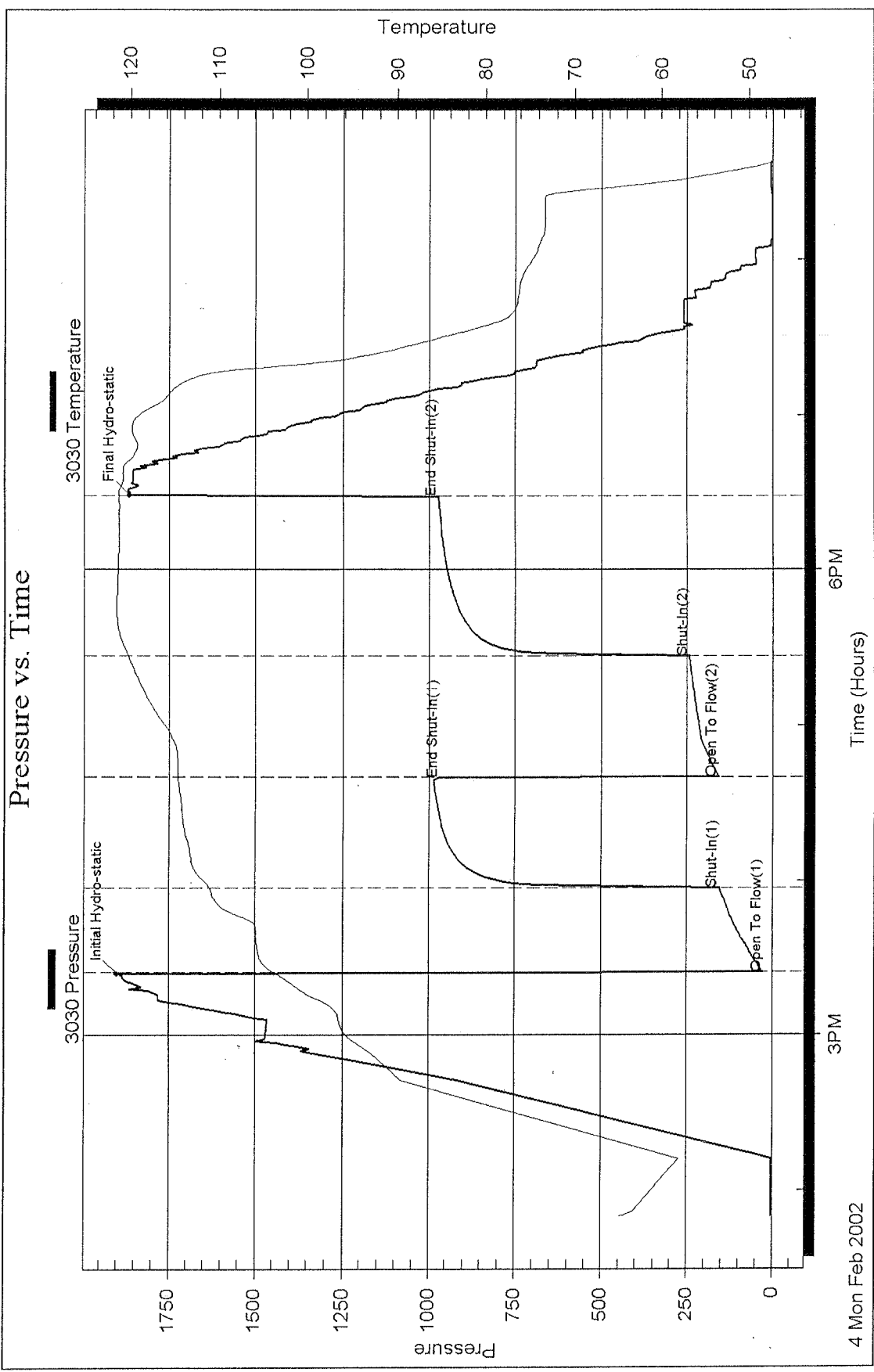
7-15S-28W Gove KS.

Russell Oil Company

Inside

Serial #: 3030

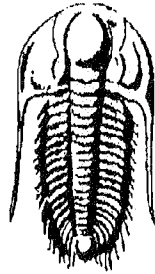
Pressure vs. Time



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4 Mon Feb 2002

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company**

3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112

ATTN: Todd Morgenstern

7-15S-28W Gove KS.

Coberly #2

Start Date: 2002.02.05 @ 04:16:47

End Date: 2002.02.05 @ 09:39:02

Job Ticket #: 15036 DST #: 2

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Russell Oil Company

Coberly #2

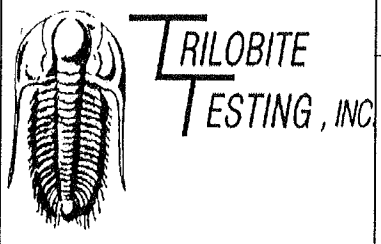
7-15S-28W Gove KS.

DST # 2

L/KC "200"

2002.02.05

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



DRILL STEM TEST REPORT

Russell Oil Company **Coberly #2**
 3535 N W 58th St. Ste.1060 **7-15S-28W Gove KS.**
 Oklahoma City, OK 73112
 Job Ticket: 15036 **DST#: 2**
 ATTN: Todd Morgenstern Test Start: 2002.02.05 @ 04:16:47

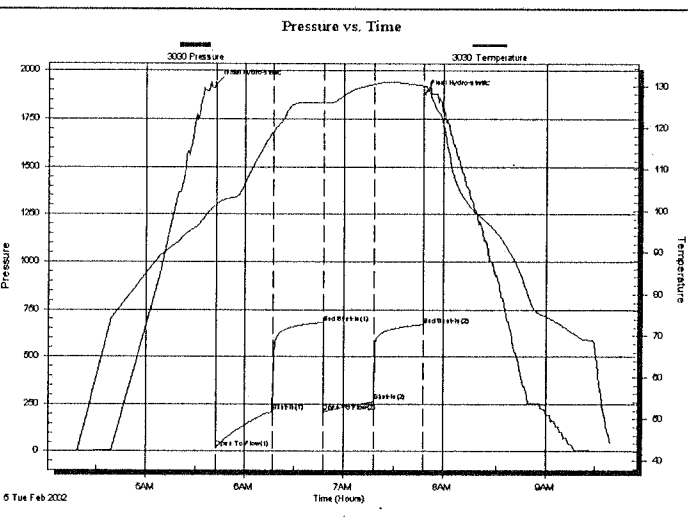
GENERAL INFORMATION:

Formation: **L/KC "200"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
 Time Tool Opened: 05:42:47 Tester: Rod Steinbrink
 Time Test Ended: 09:39:02 Unit No: 22
 Interval: **3874.00 ft (KB) To 3898.00 ft (KB) (TVD)** Reference Elevations: 2467.00 ft (KB)
 Total Depth: 3898.00 ft (KB) (TVD) 2462.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 3030 Inside
 Press@RunDepth: 263.78 psig @ 3875.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2002.02.05 End Date: 2002.02.05 Last Calib.: 1899.12.30
 Start Time: 04:16:52 End Time: 09:39:01 Time On Btm: 2002.02.05 @ 05:42:32
 Time Off Btm: 2002.02.05 @ 07:48:02

TEST COMMENT: IF; Weak blw built to 5"
 IS; No return
 FF; Weak blow built to 3"
 FS; No return

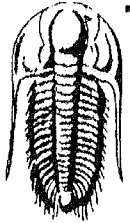
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Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1932.61	101.51	Initial Hydro-static
1	17.46	101.57	Open To Flow (1)
35	208.54	118.88	Shut-In(1)
65	675.68	126.00	End Shut-In(1)
65	210.41	125.99	Open To Flow (2)
96	263.78	130.30	Shut-In(2)
126	669.33	129.96	End Shut-In(2)
126	1878.72	129.95	Final Hydro-static

Length (ft)	Description	Volume (bbl)
30.00	Drlg Mud	0.23
515.00	Wtr	4.79

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Company
3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112

ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
Job Ticket: 15036 **DST#: 2**
Test Start: 2002.02.05 @ 04:16:47

Tool Information

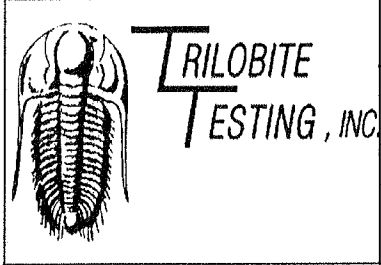
Drill Pipe:	Length: 3454.00 ft	Diameter: 3.80 inches	Volume: 48.45 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.80 inches	Volume: 3.12 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3874.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.01 ft			
Tool Length:	44.01 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
------------------	-------------	------------	----------	------------	----------------

S.I. Tool	5.00			3859.00	
HMV	5.00			3864.00	
Packer	5.00			3869.00	20.00 Bottom Of Top Packer
Packer	5.00			3874.00	
Stubb	1.00			3875.00	
Recorder	0.01	3030	Inside	3875.01	
Perforations	18.00			3893.01	
Recorder	0.00	13371	Outside	3893.01	
Bullnose	5.00			3898.01	24.01 Bottom Packers & Anchor
Total Tool Length:	44.01				

15623C



DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company
3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112
ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
Job Ticket: 15036 DST#: 2
Test Start: 2002.02.05 @ 04:16:47

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:	65000 ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drig Mud	0.228
515.00	Wtr	4.788

Total Length: 545.00 ft Total Volume: 5.016 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW .14 @ 60 deg =

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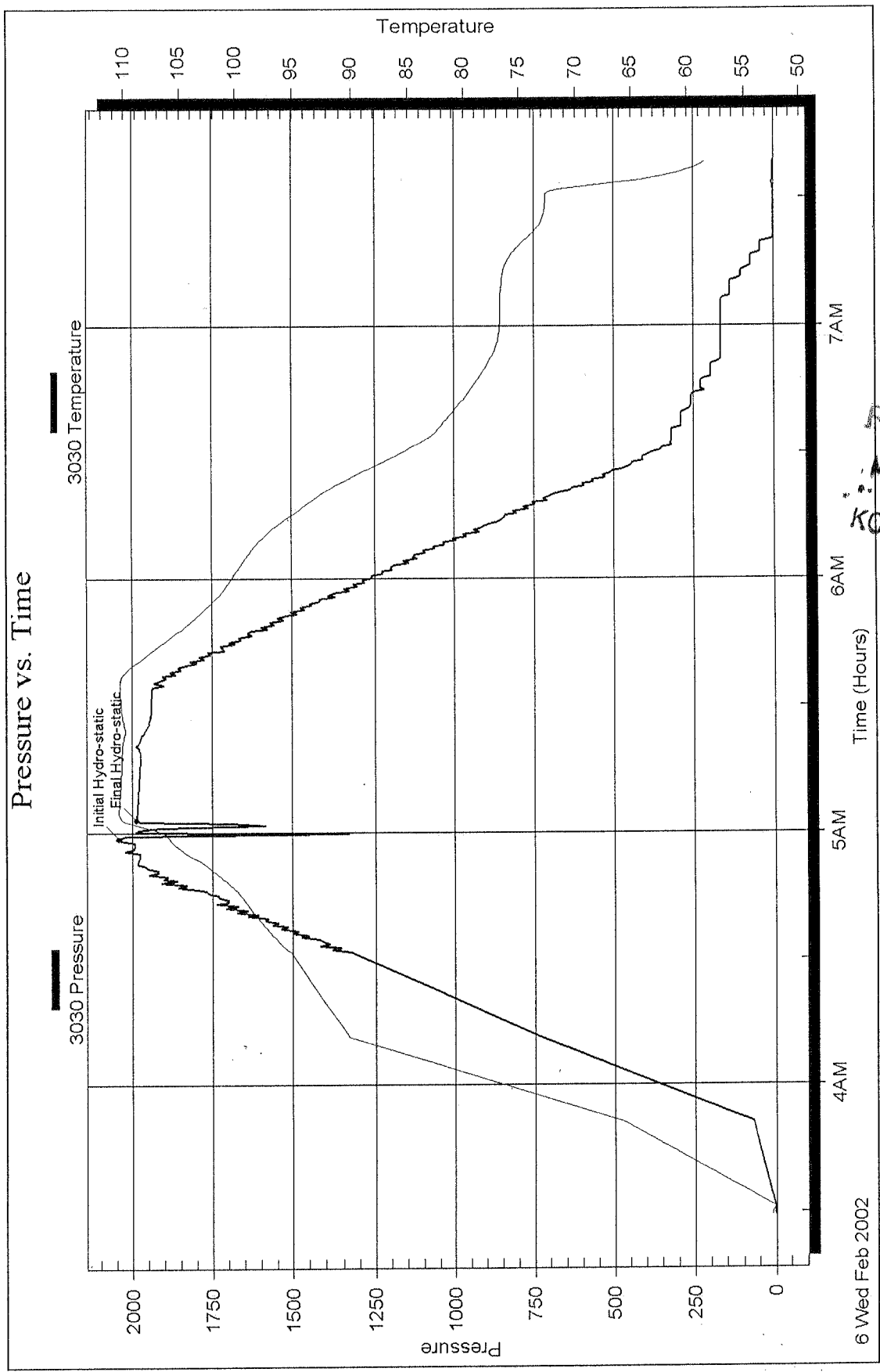
DST Test Number: 2

7-15S-28W Cove KS.

Russell Oil Company

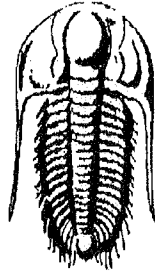
Inside

Serial #: 3030



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DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company**

3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112

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ATTN: Todd Morgenstern

7-15S-28W Gove KS.

Coberly #2

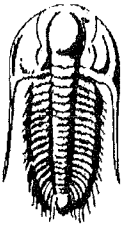
Start Date: 2002.02.06 @ 03:29:14

End Date: 2002.02.06 @ 07:38:29

Job Ticket #: 15037 DST #: 3

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

Russell Oil Company
Coberly #2
7-15S-28W Gove KS.
DST # 3
Altamont
2002.02.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Company
3535 N W 58th St. Ste. 1060
Oklahoma City, OK 73112
ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
Job Ticket: 15037 **DST#:3**
Test Start: 2002.02.06 @ 03:29:14

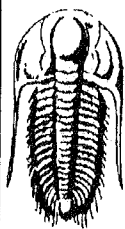
Tool Information

Drill Pipe:	Length: 3577.00 ft	Diameter: 3.80 inches	Volume: 50.18 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.80 inches	Volume: 3.12 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 53.30 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3992.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.01 ft			
Tool Length:	50.01 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

S.I. Tool	5.00			3977.00	
HMV	5.00			3982.00	
Packer	5.00			3987.00	20.00 Bottom Of Top Packer
Packer	5.00			3992.00	
Stubb	1.00			3993.00	
Recorder	0.01	3030	Inside	3993.01	
Perforations	24.00			4017.01	
Recorder	0.00	13371	Outside	4017.01	
Bullnose	5.00			4022.01	30.01 Bottom Packers & Anchor
Total Tool Length:	50.01				



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company
3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112
ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
Job Ticket: 15037 **DST#: 3**
Test Start: 2002.02.06 @ 03:29:14

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:	9.59 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

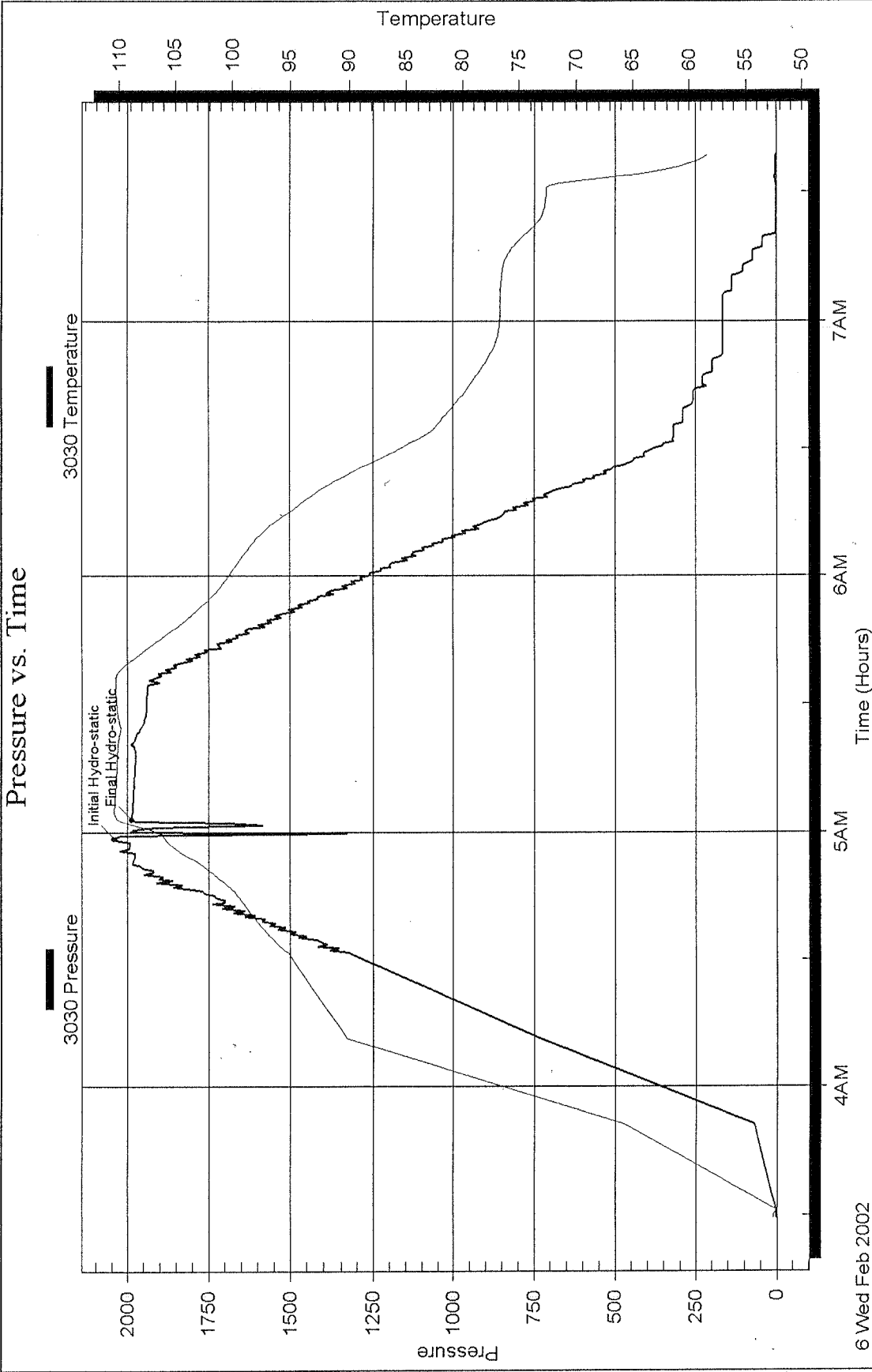
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
740.00	Drlg. Mud	7.752

Total Length: 740.00 ft Total Volume: 7.752 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

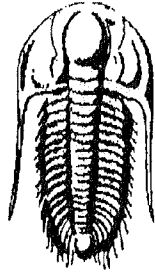
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**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company**

3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112

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ATTN: Todd Morgenstern

7-15S-28W Gove KS.

Coberly #2

Start Date: 2002.02.06 @ 08:00:08

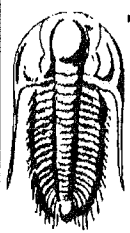
End Date: 2002.02.06 @ 13:55:38

Job Ticket #: 15038 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Company
3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112
ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
Job Ticket: 15038 **DST#: 4**
Test Start: 2002.02.06 @ 08:00:08

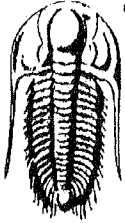
Tool Information

Drill Pipe:	Length: 3577.00 ft	Diameter: 3.80 inches	Volume: 50.18 bbl	Tool Weight:	1800.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.80 inches	Volume: 3.12 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			Total Volume: 53.30 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4002.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.01 ft				
Tool Length:	40.01 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

S.I. Tool	5.00			3987.00		
HMV	5.00			3992.00		
Packer	5.00			3997.00	20.00	Bottom Of Top Packer
Packer	5.00			4002.00		
Stubb	1.00			4003.00		
Recorder	0.01	3030	Inside	4003.01		
Perforations	14.00			4017.01		
Recorder	0.00	13371	Outside	4017.01		
Bullnose	5.00			4022.01	20.01	Bottom Packers & Anchor
Total Tool Length:	40.01					



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company
3535 N W 58th St. Ste. 1060
Oklahoma City, OK 73112
ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
Job Ticket: 15038 **DST#: 4**
Test Start: 2002.02.06 @ 08:00:08

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: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Drig. Mud	0.008

Total Length: 1.00 ft Total Volume: 0.008 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

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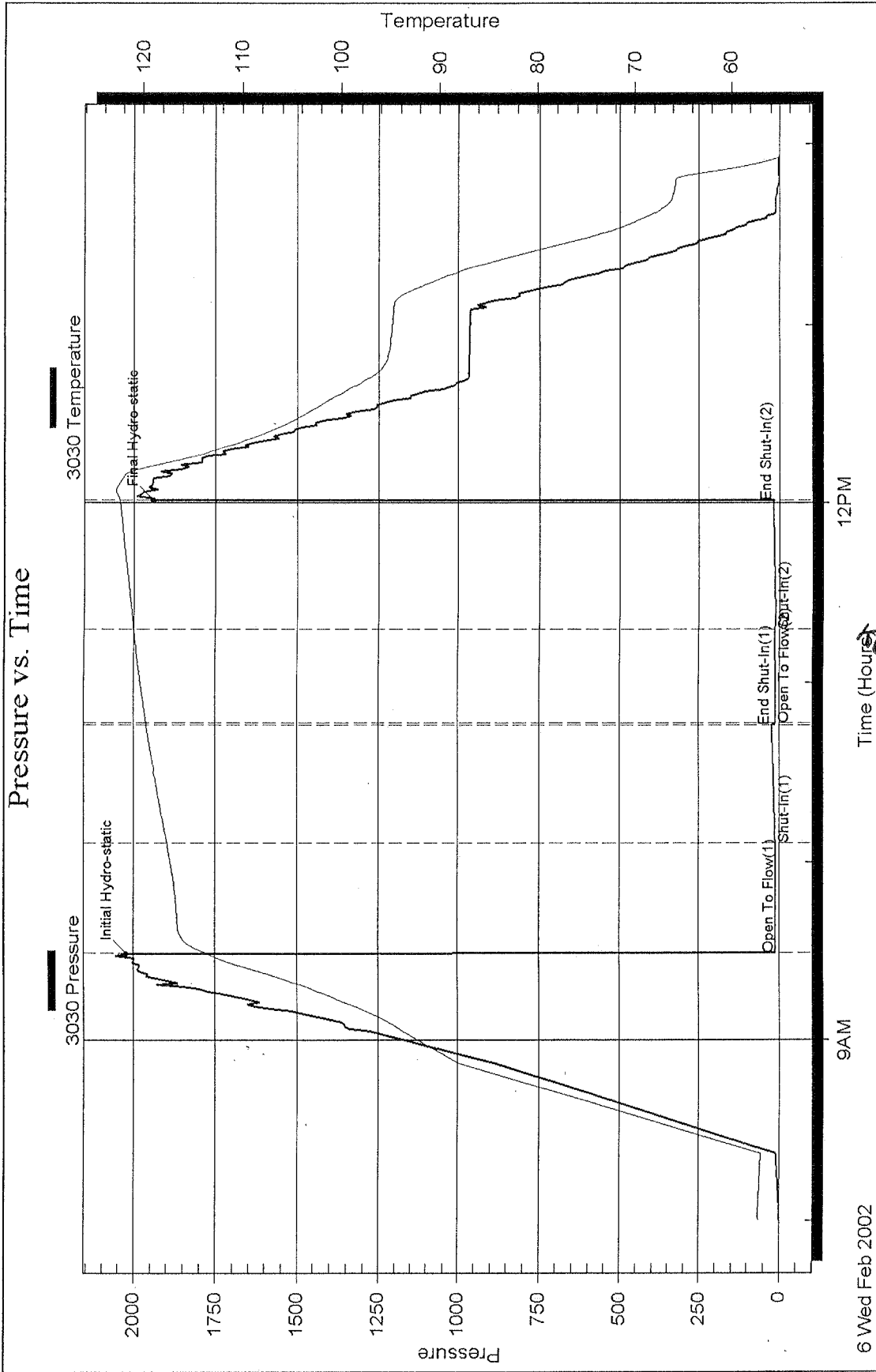
Serial #: 3030

Inside

Russell Oil Company

7-15S-28W Gove KS.

DST Test Number: 4



12PM

9AM

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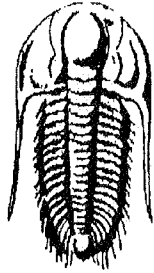
Trilobite Testing, Inc

Ref. No: 15038

Printed: 2002.02.08 @ 12:30:02 Page 5

15625d

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Company**

3535 N W 58th St. Ste.1060
Oklahoma City, OK 73112

ATTN: Todd Morgenstern

7-15S-28W Gove KS.

Coberly #2

Start Date: 2002.02.07 @ 01:30:00

End Date: 2002.02.07 @ 07:14:30

Job Ticket #: 15039 DST #: 5

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

Russell Oil Company

Coberly #2

7-15S-28W Gove KS.

DST # 5

TRILOBITE

2002.02.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Russell Oil Company
 3535 N W 58th St. Ste. 1060
 Oklahoma City, OK 73112
 ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
 Job Ticket: 15039 **DST#: 5**
 Test Start: 2002.02.07 @ 01:30:00

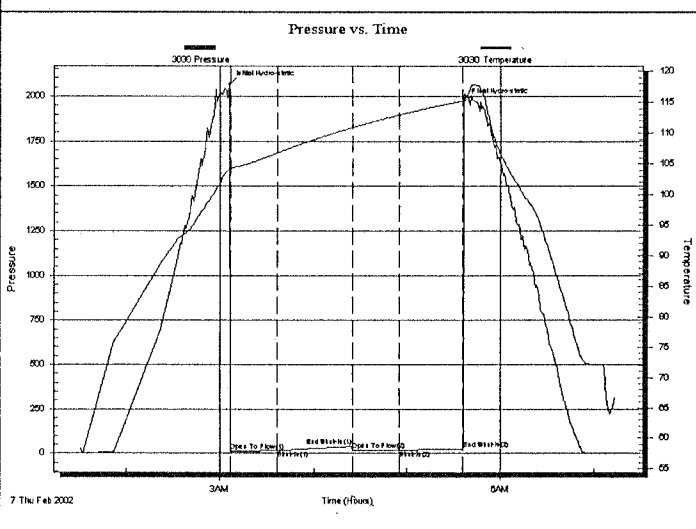
GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 03:06:15 Tester: Rod Steinbrink
 Time Test Ended: 07:14:30 Unit No: 22
 Interval: **4046.00 ft (KB) To 4067.00 ft (KB) (TVD)** Reference Elevations: 2467.00 ft (KB)
 Total Depth: 4067.00 ft (KB) (TVD) 2462.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 3030 Inside
 Press@RunDepth: 19.07 psig @ 4047.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2002.02.07 End Date: 2002.02.07 Last Calib.: 1899.12.30
 Start Time: 01:30:05 End Time: 07:14:29 Time On Btm: 2002.02.07 @ 03:06:00
 Time Off Btm: 2002.02.07 @ 05:36:45

TEST COMMENT: IF; Weak surface blow died in 20 min.
 FF No return

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 KCC WICHITA



PRESSURE SUMMARY

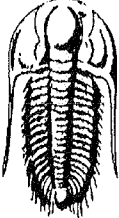
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.63	104.13	Initial Hydro-static
1	10.17	104.17	Open To Flow (1)
31	16.06	106.78	Shut-In(1)
79	37.99	110.93	End Shut-In(1)
80	17.97	110.96	Open To Flow (2)
110	19.07	112.99	Shut-In(2)
151	24.63	115.30	End Shut-In(2)
151	1969.60	115.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig. Mud w/ few Oil spots	0.02

Gas Rates

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

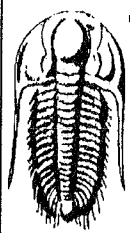
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		TOOL DIAGRAM
	Russell Oil Company 3535 N W 58th St. Ste.1060 Oklahoma City, OK 73112 ATTN: Todd Morgenstern	Coberly #2 7-15S-28W Gove KS. Job Ticket: 15039 DST#: 5 Test Start: 2002.02.07 @ 01:30:00	

Tool Information

Drill Pipe:	Length: 3641.00 ft	Diameter: 3.80 inches	Volume: 51.07 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 410.00 ft	Diameter: 2.80 inches	Volume: 3.12 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 54.19 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4046.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.01 ft			
Tool Length:	41.01 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	
S.I. Tool	5.00			4031.00		
HMV	5.00			4036.00		
Packer	5.00			4041.00	20.00	Bottom Of Top Packer
Packer	5.00			4046.00		
Stubb	1.00			4047.00		
Recorder	0.01	3030	Inside	4047.01		
Perforations	15.00			4062.01		
Recorder	0.00	13371	Outside	4062.01		
Bullnose	5.00			4067.01	21.01	Bottom Packers & Anchor
Total Tool Length:		41.01				



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Company
3535 N W 58th St. Ste. 1060
Oklahoma City, OK 73112
ATTN: Todd Morgenstern

Coberly #2
7-15S-28W Gove KS.
Job Ticket: 15039 **DST#: 5**
Test Start: 2002.02.07 @ 01:30:00

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:	ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: inches			

Recovery Information

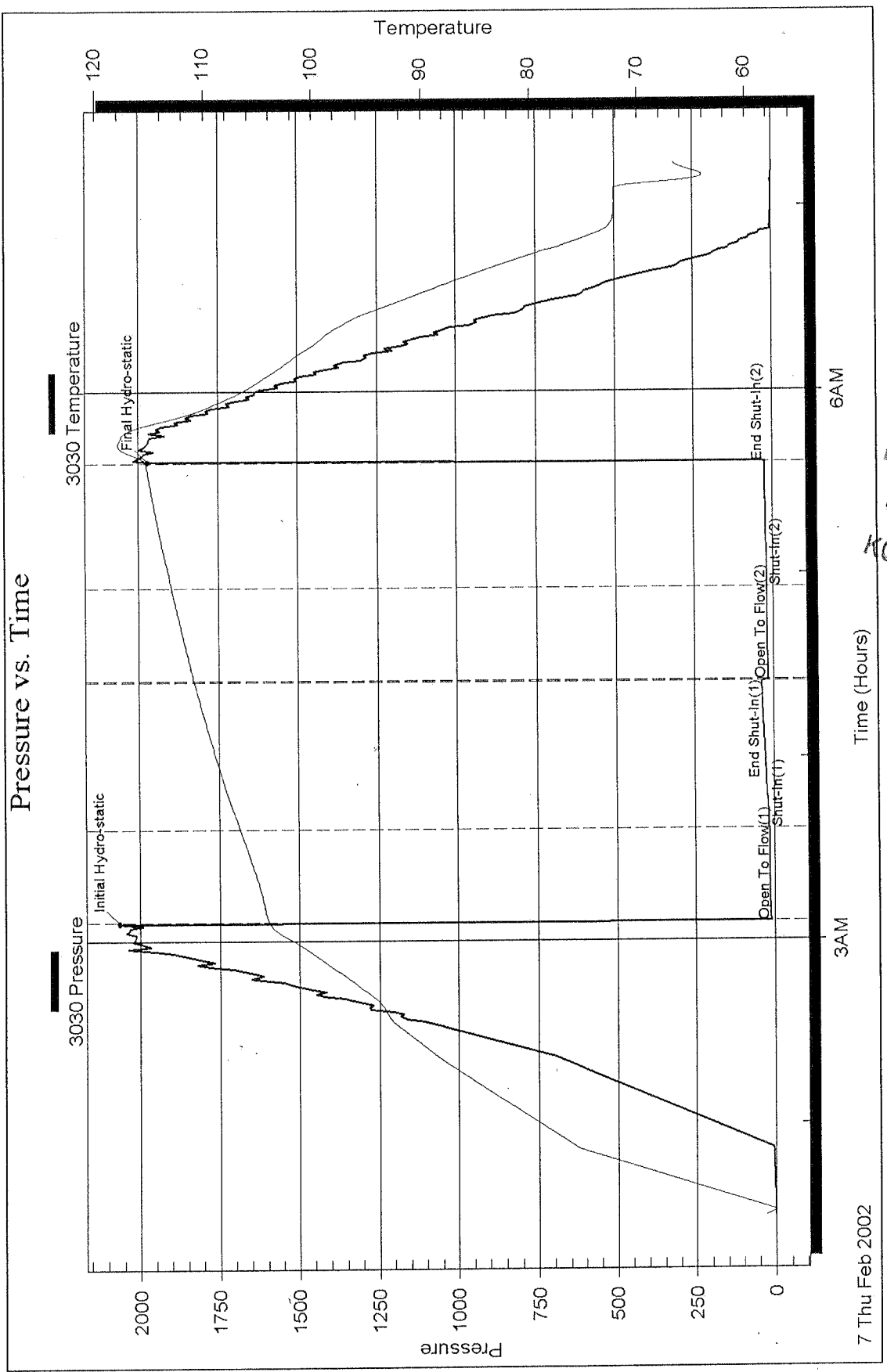
Recovery Table

Length ft	Description	Volume bbl
2.00	Drig. Mud w/ few Oil spots	0.015

Total Length: 2.00 ft Total Volume: 0.015 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

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Serial #: 3030 Inside Russell Oil Company 7-15S-28W Gove KS. DST Test Number: 5



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