20-8s-22w
ORIGINAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

20-8-22 Grahan

Quint C #2

Start Date: 2005.03.20 @ 14:50:11
End Date: 2005.03.20 @ 20:42:16
Job Ticket #: 20521 DST #: 1

15-065-23037

N2 NW SW
2310 FSL 750 FWL

RECEIVED
JUL 08 2005
KCC WICHITA

Russell Oil Inc Quint C #2 20-8-22 Grahan DST # 1 LKC 70 90 2005.03.20

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Russell Oil Inc

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

Quint C #2

20-8-22 Grahan

Job Ticket: 20521 **DST#: 1**

Test Start: 2005.03.20 @ 14:50:11

GENERAL INFORMATION:

Formation: **LKC 70 90**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:20:46
Time Test Ended: 20:42:16

Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 18

Interval: 3450.00 ft (KB) To 3478.00 ft (KB) (TVD)
Total Depth: 3478.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

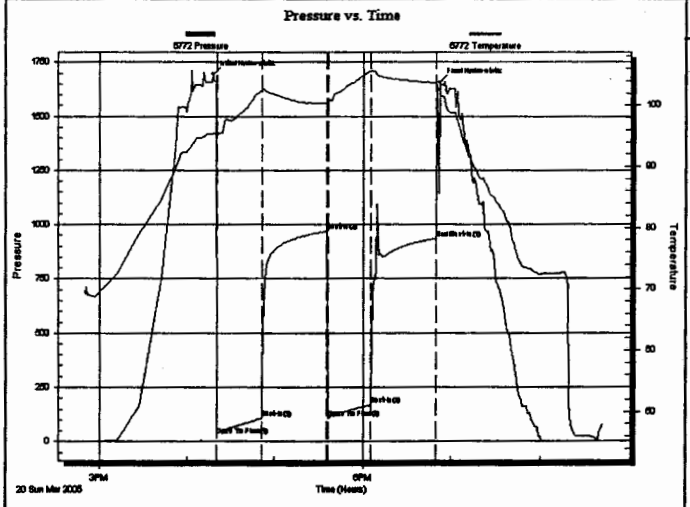
Reference Elevations: 2144.00 ft (KB)
2139.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6772 **Inside**

Press@RunDepth: 107.58 psig @ 3479.00 ft (KB)
Start Date: 2005.03.20 End Date: 2005.03.20
Start Time: 14:50:11 End Time: 20:42:16

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2005.03.20 @ 16:18:16
Time Off Btm: 2005.03.20 @ 18:52:01

TEST COMMENT: IF: 1/4 blow built to 4 in 15 min tool w as pluging 1 blow at 30 min.
IS: No return.
FF: Surface blow built to 4 1/2 in 30 min.
FS: Weak surface blow that never built.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.26	95.44	Initial Hydro-static
3	30.34	95.28	Open To Flow (1)
33	107.58	102.50	Shut-In(1)
78	968.93	100.38	Shut-In(2)
79	109.60	100.42	Open To Flow (2)
107	168.75	105.66	Shut-In(3)
152	935.25	103.65	End Shut-In(1)
154	1657.89	102.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	mcw 70%w 30%m	0.64
124.00	w cm 50%w 50%m	0.61
124.00	mud 100%m	0.61

Gas Rates

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

ORIGINAL

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

Quint C #2

20-8-22 Grahan

Job Ticket: 20521 **DST#: 1**

Test Start: 2005.03.20 @ 14:50:11

Tool Information

Drill Pipe:	Length:	3098.00 ft	Diameter:	3.80	inches	Volume:	43.46	bbl	
Heavy Wt. Pipe:	Length:	378.00 ft	Diameter:	2.25	inches	Volume:	1.86	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	45.32	bbl	

Drill Pipe Above KB:	18.00 ft
Depth to Top Packer:	3478.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	28.00 ft
Tool Length:	48.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:	1500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	66000.00 lb
Tool Chased	5.00 ft
String Weight: Initial	46000.00 lb
Final	47000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			3459.00		
Shut In Tool	5.00			3464.00		
Hydraulic tool	5.00			3469.00		
Packer	5.00			3474.00	20.00	Bottom Of Top Packer
Packer	4.00		Fluid	3478.00		
Stubb	1.00			3479.00		
Recorder	0.00	6772	Inside	3479.00		
Perforations	22.00			3501.00		
Recorder	0.00	10248	Outside	3501.00		
Bullnose	5.00			3506.00	28.00	Bottom Packers & Anchor
Total Tool Length:	**48.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

Quint C #2

20-8-22 Grahan

Job Ticket: 20521 **DST#: 1**

Test Start: 2005.03.20 @ 14:50:11

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	13500 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.95 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

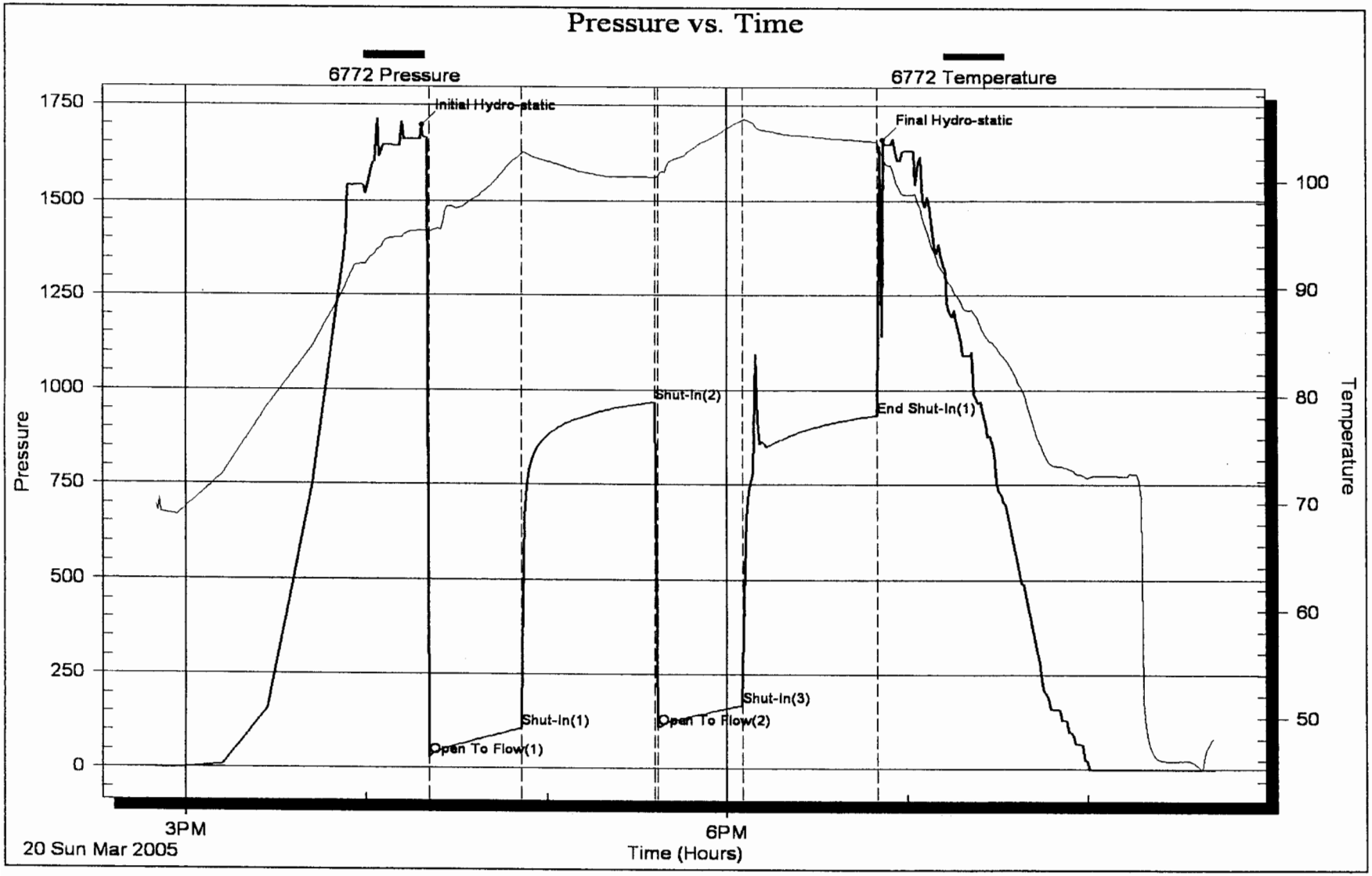
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	mcw 70%w 30%m	0.639
124.00	w cm 50%w 50%m	0.610
124.00	mud 100%m	0.610

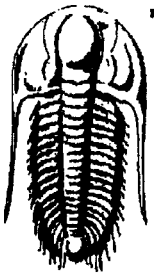
Total Length: 378.00 ft Total Volume: 1.859 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6772 Pressure
6772 Temperature
Initial Hydro-static
Final Hydro-static
Shut-In(2)
End Shut-In(1)
Shut-In(1)
Open To Flow(1)
Shut-In(3)
Open To Flow(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
3PM
6PM
20 Sun Mar 2005
Time (Hours)

ORIGINAL

ORIGINAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

20-8-22 Grahan

Quint C #2

Start Date: 2005.03.21 @ 13:21:01
End Date: 2005.03.21 @ 18:47:21
Job Ticket #: 20522 DST #: 2

Russell Oil Inc
Quint C #2
20-8-22 Grahan
DST # 2
H-I-J
2005.03.21

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Russell Oil Inc

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

Quint C #2

20-8-22 Grahan

Job Ticket: 20522 **DST#: 2**

Test Start: 2005.03.21 @ 13:21:01

GENERAL INFORMATION:

Formation: H-I-J
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:18:51
Time Test Ended: 18:47:21

Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 18

Interval: 3512.00 ft (KB) To 3580.00 ft (KB) (TVD)
Total Depth: 3478.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

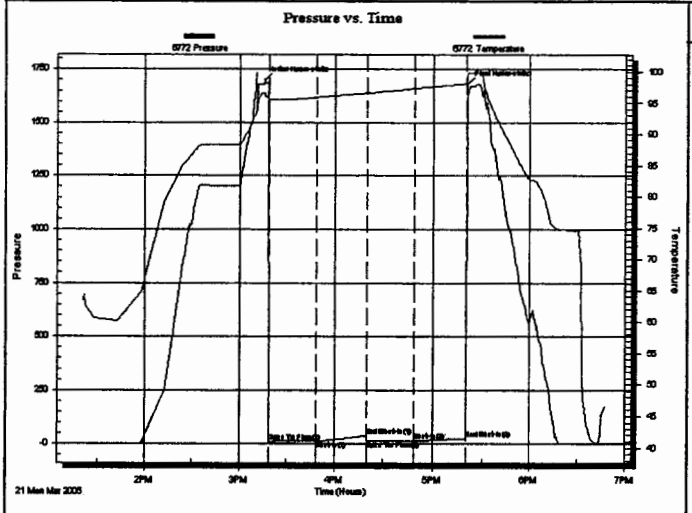
Reference Elevations: 2144.00 ft (KB)
2139.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6772 **Inside**

Press@RunDepth: 14.17 psig @ 3581.00 ft (KB)
Start Date: 2005.03.21 End Date: 2005.03.21
Start Time: 13:21:01 End Time: 18:47:21

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2005.03.21 @ 15:16:21
Time Off Btm: 2005.03.21 @ 17:20:36

TEST COMMENT: IF: 1/4 blow died in 6 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.14	96.59	Initial Hydro-static
3	11.96	95.54	Open To Flow (1)
33	13.05	95.89	Shut-In(1)
63	37.58	96.56	End Shut-In(1)
64	13.56	96.56	Open To Flow (2)
93	14.17	97.34	Shut-In(2)
124	26.06	98.10	End Shut-In(2)
125	1680.18	98.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

Gas Rates

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

ORIGINAL

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

Quint C #2

20-8-22 Grahan

Job Ticket: 20522 **DST#: 2**

Test Start: 2005.03.21 @ 13:21:01

Tool Information

Drill Pipe:	Length:	3201.00 ft	Diameter:	3.80 inches	Volume:	44.90 bbl	Tool Weight:		1500.00 lb
Heavy Wt. Pipe:	Length:	378.00 ft	Diameter:	2.25 inches	Volume:	1.86 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		68000.00 lb
					Total Volume:	46.76 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		19.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3580.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		68.00 ft							
Tool Length:		88.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			3561.00		
Shut In Tool	5.00			3566.00		
Hydraulic tool	5.00			3571.00		
Packer	5.00			3576.00	20.00	Bottom Of Top Packer
Packer	4.00		Fluid	3580.00		
Stubb	1.00			3581.00		
Recorder	0.00	6772	Inside	3581.00		
Perforations	32.00			3613.00		
Drill Pipe	30.00			3643.00		
Recorder	0.00	10248	Outside	3643.00		
Bullnose	5.00			3648.00	68.00	Bottom Packers & Anchor
Total Tool Length:	**88.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

Quint C #2

20-8-22 Grahan

Job Ticket: 20522 **DST#: 2**

Test Start: 2005.03.21 @ 13:21:01

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.96 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

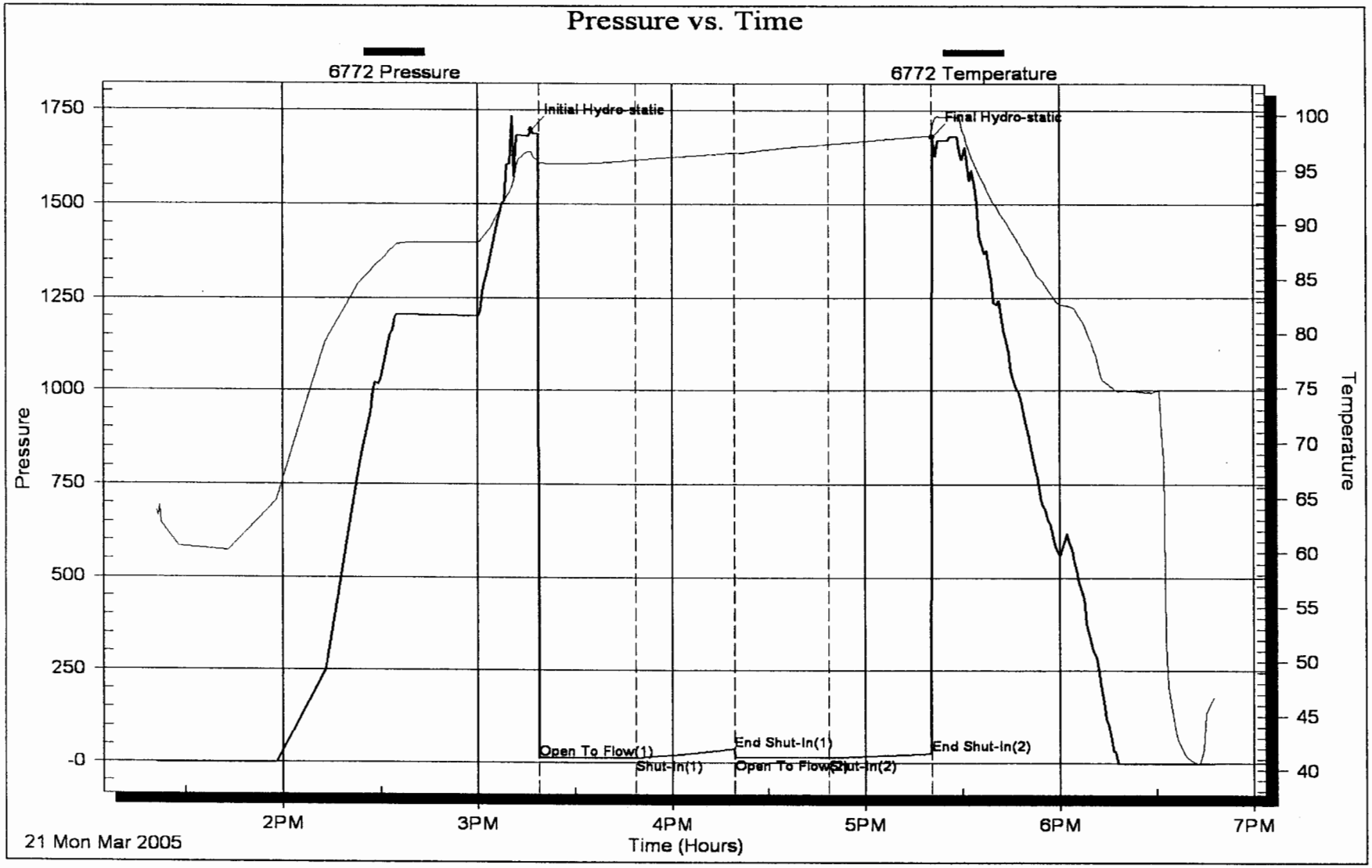
Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

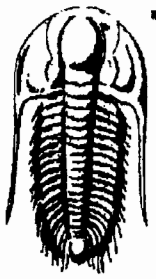
Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6772 Pressure
6772 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
Temperature
1750
1500
1250
1000
750
500
250
-0
100
95
90
85
80
75
70
65
60
55
50
45
40
2PM
3PM
4PM
5PM
6PM
7PM
21 Mon Mar 2005
Time (Hours)

ORIGINAL

ORIGINAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

20-8-22 Grahan

Quint C #2

Start Date: 2005.03.22 @ 02:09:36
End Date: 2005.03.22 @ 07:14:26
Job Ticket #: 20523 DST #: 3

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

Russell Oil Inc
Quint C #2
20-8-22 Grahan
DST # 3
KC "K"
2005.03.22

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Russell Oil Inc

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

Quint C #2

20-8-22 Grahan

Job Ticket: 20523 **DST#: 3**

Test Start: 2005.03.22 @ 02:09:36

GENERAL INFORMATION:

Formation: KC "K"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:47:11
Time Test Ended: 07:14:26

Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 18

Interval: 3574.00 ft (KB) To 3600.00 ft (KB) (TVD)
Total Depth: 3600.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

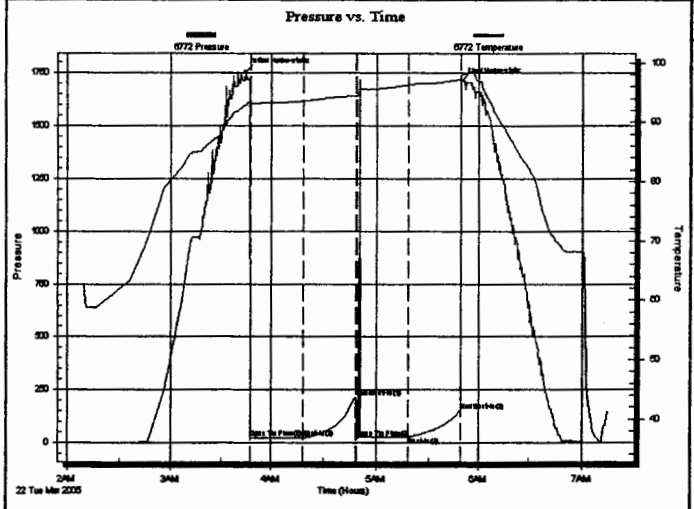
Reference Elevations: 2144.00 ft (KB)
2139.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6772 **Inside**

Press@RunDepth: 28.96 psig @ 3601.00 ft (KB)
Start Date: 2005.03.22 End Date: 2005.03.22
Start Time: 02:09:36 End Time: 07:14:26

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2005.03.22 @ 03:44:41
Time Off Btm: 2005.03.22 @ 05:49:11

TEST COMMENT: IF: 1/4 blow built to 1/2 died in 13 min.
IS: No return.
FF: No blow flushed tool surface blow died in 4 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.39	92.85	Initial Hydro-static
3	22.00	92.45	Open To Flow (1)
34	24.24	93.57	Shut-In(1)
64	216.88	94.51	End Shut-In(1)
64	25.61	94.48	Open To Flow (2)
94	28.96	96.32	Shut-In(2)
125	153.69	97.22	End Shut-In(2)
125	1710.23	97.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud oil spots 100%m	0.07

Gas Rates

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

ORIGINAL

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

Quint C #2

20-8-22 Grahan

Job Ticket: 20523 **DST#: 3**

Test Start: 2005.03.22 @ 02:09:36

Tool Information

Drill Pipe:	Length:	3222.00 ft	Diameter:	3.80 inches	Volume:	45.20 bbl	Tool Weight:		1500.00 lb
Heavy Wt. Pipe:	Length:	378.00 ft	Diameter:	2.25 inches	Volume:	1.86 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		68000.00 lb
					Total Volume:	47.06 bbl	Tool Chased		8.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3600.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		26.00 ft							
Tool Length:		46.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			3581.00		
Shut In Tool	5.00			3586.00		
Hydraulic tool	5.00			3591.00		
Packer	5.00			3596.00	20.00	Bottom Of Top Packer
Packer	4.00		Fluid	3600.00		
Stubb	1.00			3601.00		
Recorder	0.00	6772	Inside	3601.00		
Perforations	20.00			3621.00		
Recorder	0.00	10248	Outside	3621.00		
Bullnose	5.00			3626.00	26.00	Bottom Packers & Anchor
Total Tool Length:	**46.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

PO Box 1469
Plainfeild, IL 60544

ATTN: Todd Morgenstern

Quint C #2

20-8-22 Grahan

Job Ticket: 20523 **DST#: 3**

Test Start: 2005.03.22 @ 02:09:36

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

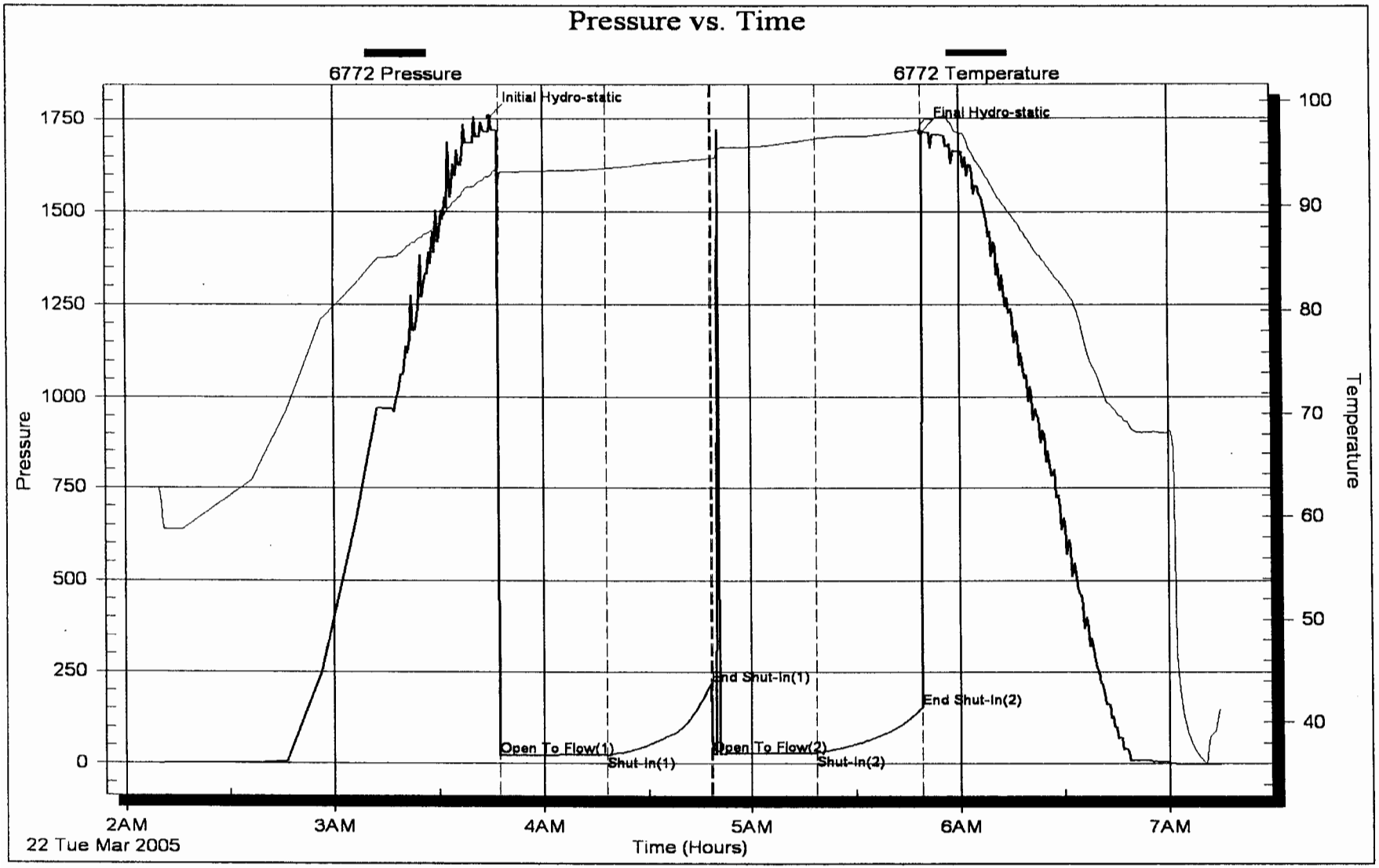
Length ft	Description	Volume bbl
15.00	mud oil spots 100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6772 Pressure
6772 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
Time (Hours)
22 Tue Mar 2005
2AM
3AM
4AM
5AM
6AM
7AM
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40

ORIGINAL