

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil,Inc.**

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

20--8s--22w

Quint B # 1

Start Date: 2003.01.18 @ 08:51:42
End Date: 2003.01.18 @ 15:12:12
Job Ticket #: 16829 DST #: 1

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

DRILL STEM TEST REPORT

Russell Oil,Inc.

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

Quint B # 1

20--8s--22w

Job Ticket: 16829 **DST#: 1**

Test Start: 2003.01.18 @ 08:51:42

GENERAL INFORMATION:

Formation: **L.Kc.-35'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:46:42
Time Test Ended: 15:12:12

Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 18

Interval: 3454.00 ft (KB) To 3480.00 ft (KB) (TVD)
Total Depth: 3480.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

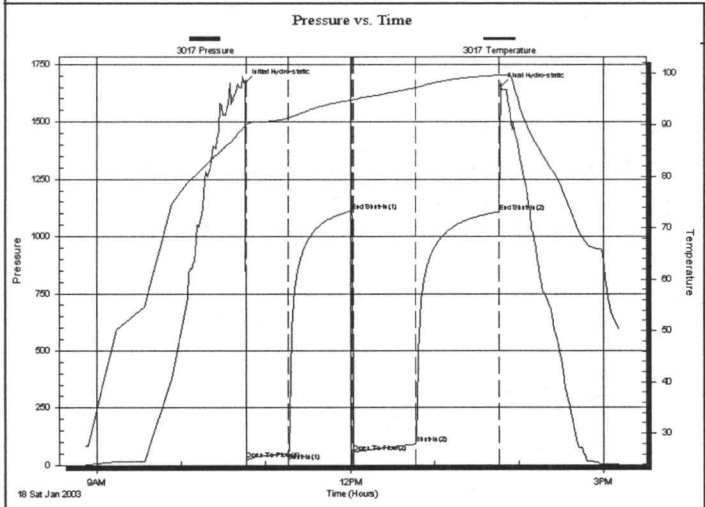
Reference Elevations: 2178.00 ft (KB)
2173.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3017 **Inside**

Press@RunDepth: 90.74 psig @ 3457.01 ft (KB)
Start Date: 2003.01.18 End Date: 2003.01.18
Start Time: 08:51:44 End Time: 15:12:12

Capacity: 7000.00 psig
Last Calib.: 2003.01.18
Time On Btm: 2003.01.18 @ 10:45:42
Time Off Btm: 2003.01.18 @ 13:47:12

TEST COMMENT: IF-Weak blow built to 4" in ISI- Dead
FF-Weak blow built to 2"in FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.49	89.76	Initial Hydro-static
1	22.57	90.02	Open To Flow (1)
31	52.77	91.40	Shut-In(1)
76	1111.33	94.82	End Shut-In(1)
77	55.48	94.87	Open To Flow (2)
121	90.74	97.18	Shut-In(2)
180	1107.81	99.62	End Shut-In(2)
182	1653.97	99.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	M-C-W--few oil spots 40%M-60%W	0.79

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil,Inc.

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

Quint B # 1

20--8s--22w

Job Ticket: 16829 **DST#: 1**

Test Start: 2003.01.18 @ 08:51:42

Tool Information

Drill Pipe:	Length:	3046.00 ft	Diameter:	3.80 inches	Volume:	42.73 bbl	Tool Weight:		3000.00 lb
Heavy Wt. Pipe:	Length:	410.00 ft	Diameter:	2.25 inches	Volume:	2.02 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	44.75 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		22.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		3454.00 ft						Final	50000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		26.02 ft							
Tool Length:		46.02 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3435.00		
S.I. Tool	5.00			3440.00		
HMV	5.00			3445.00		
Packer	4.00			3449.00	20.00	Bottom Of Top Packer
Packer	5.00			3454.00		
Stubb	1.00			3455.00		
Perforations	2.00			3457.00		
Recorder	0.01	3017	Inside	3457.01		
Perforations	20.00			3477.01		
Recorder	0.01	13308	Outside	3477.02		
Bullnose	3.00			3480.02	26.02	Bottom Packers & Anchor
Total Tool Length:	**46.02**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil,Inc.

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

Quint B # 1

20--8s--22w

Job Ticket: 16829 **DST#: 1**

Test Start: 2003.01.18 @ 08:51:42

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:	34000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

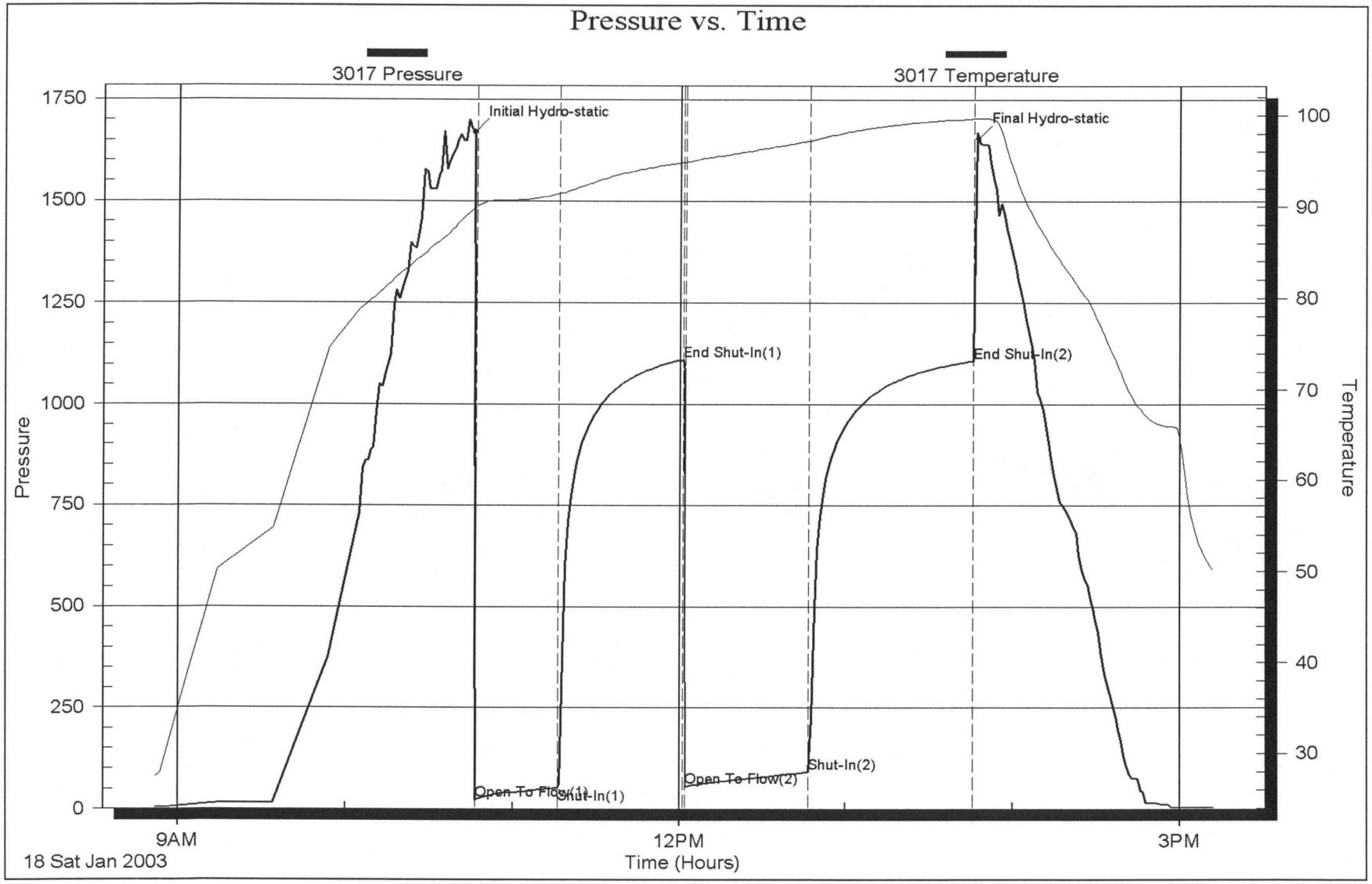
Length ft	Description	Volume bbl
160.00	M-C-W--few oil spots 40%M-60%W	0.787

Total Length: 160.00 ft Total Volume: 0.787 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
3017 Pressure
3017 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
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
30
9AM
12PM
3PM
18 Sat Jan 2003
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil,Inc.**

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

20--8s--22w

Quint B # 1

Start Date: 2003.01.18 @ 23:21:46
End Date: 2003.01.19 @ 05:54:46
Job Ticket #: 16830 DST #: 2

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

DRILL STEM TEST REPORT

Russell Oil,Inc.

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

Quint B # 1

20--8s--22w

Job Ticket: 16830 **DST#: 2**

Test Start: 2003.01.18 @ 23:21:46

GENERAL INFORMATION:

Formation: **L.Kc.-70'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:53:46
Time Test Ended: 05:54:46

Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 18

Interval: 3490.00 ft (KB) To 3519.00 ft (KB) (TVD)
Total Depth: 3519.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

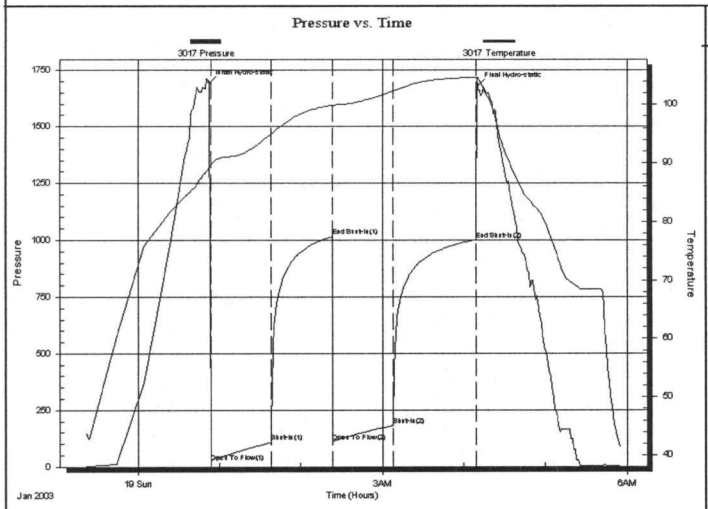
Reference Elevations: 2178.00 ft (KB)
2173.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3017 **Inside**

Press@RunDepth: 181.95 psig @ 3493.01 ft (KB)
Start Date: 2003.01.18 End Date: 2003.01.19
Start Time: 23:21:48 End Time: 05:54:46

Capacity: 7000.00 psig
Last Calib.: 2003.01.19
Time On Btm: 2003.01.19 @ 00:52:46
Time Off Btm: 2003.01.19 @ 04:10:16

TEST COMMENT: IF-Weak built to 3" in ISI-Dead
FF-Weak built to 2" in FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1692.76	89.16	Initial Hydro-static
1	18.79	89.47	Open To Flow (1)
46	107.65	94.88	Shut-In(1)
91	1015.50	99.90	End Shut-In(1)
91	111.13	99.93	Open To Flow (2)
135	181.95	102.27	Shut-In(2)
196	1001.02	104.67	End Shut-In(2)
198	1677.36	104.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	Muddy Water 20%M--80%W	1.55

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil,Inc.

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

Quint B # 1

20--8s--22w

Job Ticket: 16830 **DST#: 2**

Test Start: 2003.01.18 @ 23:21:46

Tool Information

Drill Pipe:	Length:	3074.00 ft	Diameter:	3.80 inches	Volume:	43.12 bbl	Tool Weight:		3000.00 lb
Heavy Wt. Pipe:	Length:	410.00 ft	Diameter:	2.25 inches	Volume:	2.02 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	45.14 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		14.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		3490.00 ft						Final	50000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		29.02 ft							
Tool Length:		49.02 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3471.00		
S.I. Tool	5.00			3476.00		
HMV	5.00			3481.00		
Packer	4.00			3485.00	20.00	Bottom Of Top Packer
Packer	5.00			3490.00		
Stubb	1.00			3491.00		
Perforations	2.00			3493.00		
Recorder	0.01	3017	Inside	3493.01		
Perforations	23.00			3516.01		
Recorder	0.01	13308	Outside	3516.02		
Bullnose	3.00			3519.02	29.02	Bottom Packers & Anchor
Total Tool Length:	**49.02**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil,Inc.

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

Quint B # 1

20--8s--22w

Job Ticket: 16830 **DST#: 2**

Test Start: 2003.01.18 @ 23:21:46

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:	50000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

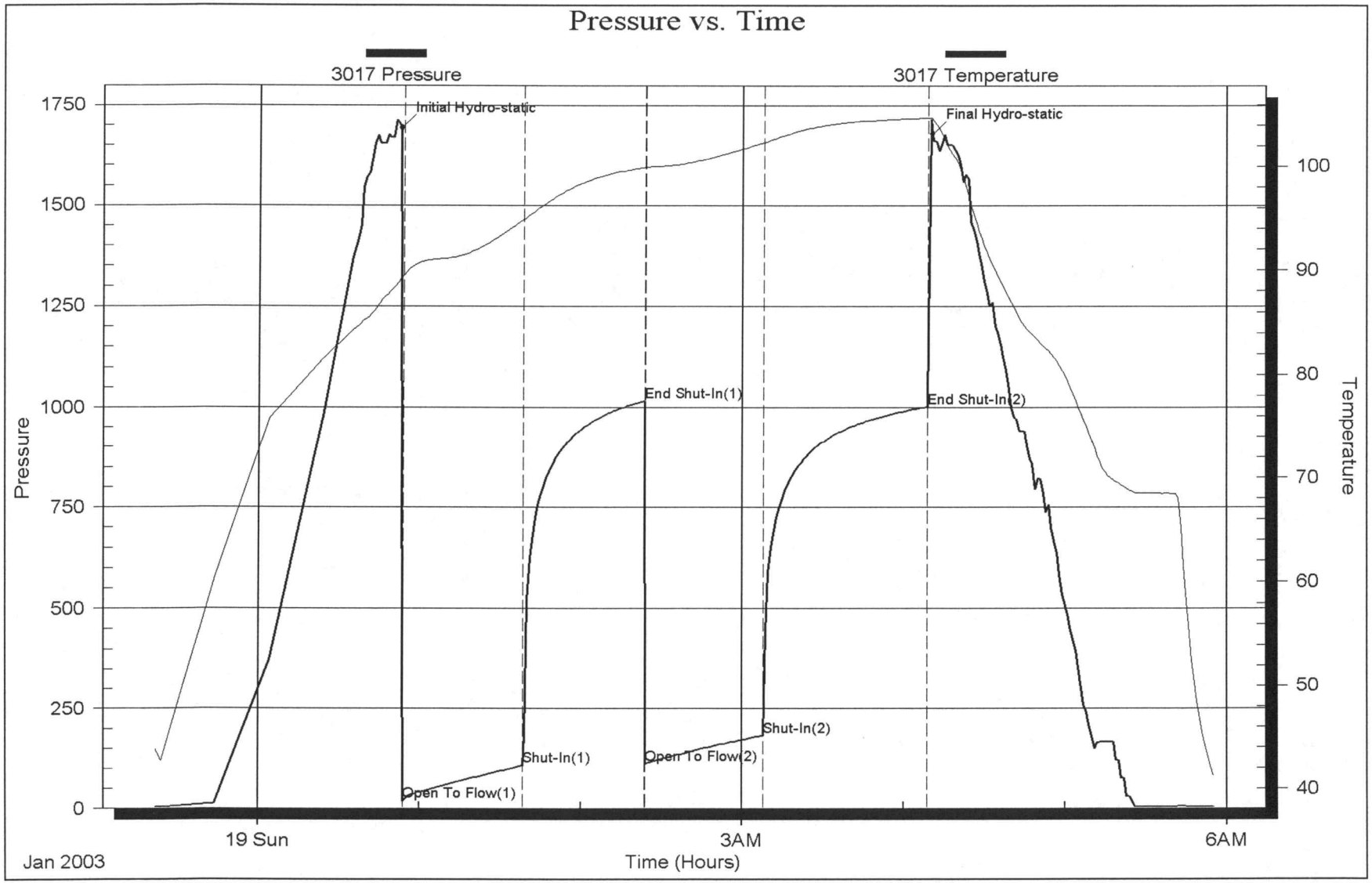
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	Muddy Water 20%M--80%W	1.549

Total Length: 315.00 ft Total Volume: 1.549 bbl

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


Pressure vs. Time
3017 Pressure
3017 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
19 Sun
3AM
6AM
Jan 2003
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil,Inc.**

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

20--8s--22w

Quint B # 1

Start Date: 2003.01.19 @ 18:02:47
End Date: 2003.01.20 @ 02:51:47
Job Ticket #: 16831 DST #: 3

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

DRILL STEM TEST REPORT

Russell Oil,Inc.

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

Quint B # 1

20--8s--22w

Job Ticket: 16831 **DST#: 3**

Test Start: 2003.01.19 @ 18:02:47

GENERAL INFORMATION:

Formation: **L.Kc.-H-I&J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:58:47
Time Test Ended: 02:51:47

Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 18

Interval: 3545.00 ft (KB) To 3613.00 ft (KB) (TVD)
Total Depth: 3613.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

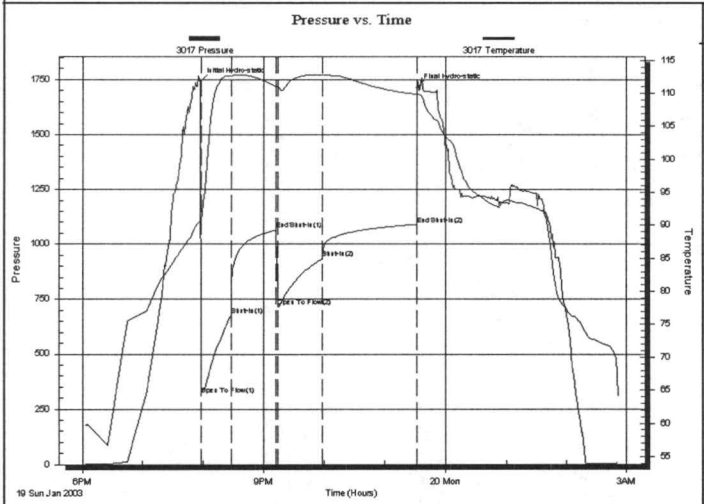
Reference Elevations: 2178.00 ft (KB)
2173.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3017 **Inside**

Press@RunDepth: 935.51 psig @ 3550.01 ft (KB)
Start Date: 2003.01.19 End Date: 2003.01.20
Start Time: 18:02:49 End Time: 02:51:47

Capacity: 7000.00 psig
Last Calib.: 2003.01.20
Time On Btm: 2003.01.19 @ 19:57:47
Time Off Btm: 2003.01.19 @ 23:31:47

TEST COMMENT: IF-Strong B.O.B. in 30 Sec. ISI-Strong blow back B.O.B.2min.
FF-Strong Gas in 20 min. T.S.T.G . FSI-Good blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.51	90.68	Initial Hydro-static
1	312.91	90.86	Open To Flow (1)
31	676.64	112.69	Shut-In(1)
75	1065.05	111.02	End Shut-In(1)
77	716.17	110.91	Open To Flow (2)
121	935.51	112.74	Shut-In(2)
214	1089.38	109.82	End Shut-In(2)
214	1713.83	109.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2600.00	Gassy oil 10%G-90%O	32.74

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil,Inc.

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

Quint B # 1

20--8s--22w

Job Ticket: 16831 **DST#: 3**

Test Start: 2003.01.19 @ 18:02:47

Tool Information

Drill Pipe:	Length:	3137.00 ft	Diameter:	3.80 inches	Volume:	44.00 bbl	Tool Weight:		3400.00 lb
Heavy Wt. Pipe:	Length:	410.00 ft	Diameter:	2.25 inches	Volume:	2.02 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		65000.00 lb
					Total Volume:	46.02 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		22.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		3545.00 ft						Final	61000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		68.02 ft							
Tool Length:		88.02 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3526.00		
S.I. Tool	5.00			3531.00		
HMV	5.00			3536.00		
Packer	4.00			3540.00	20.00	Bottom Of Top Packer
Packer	5.00			3545.00		
Stubb	1.00			3546.00		
Perforations	3.00			3549.00		
C.O. Sub	1.00			3550.00		
Recorder	0.01	3017	Inside	3550.01		
Blank Spacing	31.00			3581.01		
C.O. Sub	1.00			3582.01		
Perforations	28.00			3610.01		
Recorder	0.01	13308	Outside	3610.02		
Bullnose	3.00			3613.02	68.02	Bottom Packers & Anchor
Total Tool Length:	**88.02**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil,Inc.

P.O.Box 1469
Plainfield,IL.60544

ATTN: LeRoy Holt

Quint B # 1

20--8s--22w

Job Ticket: 16831 **DST#: 3**

Test Start: 2003.01.19 @ 18:02:47

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	38 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

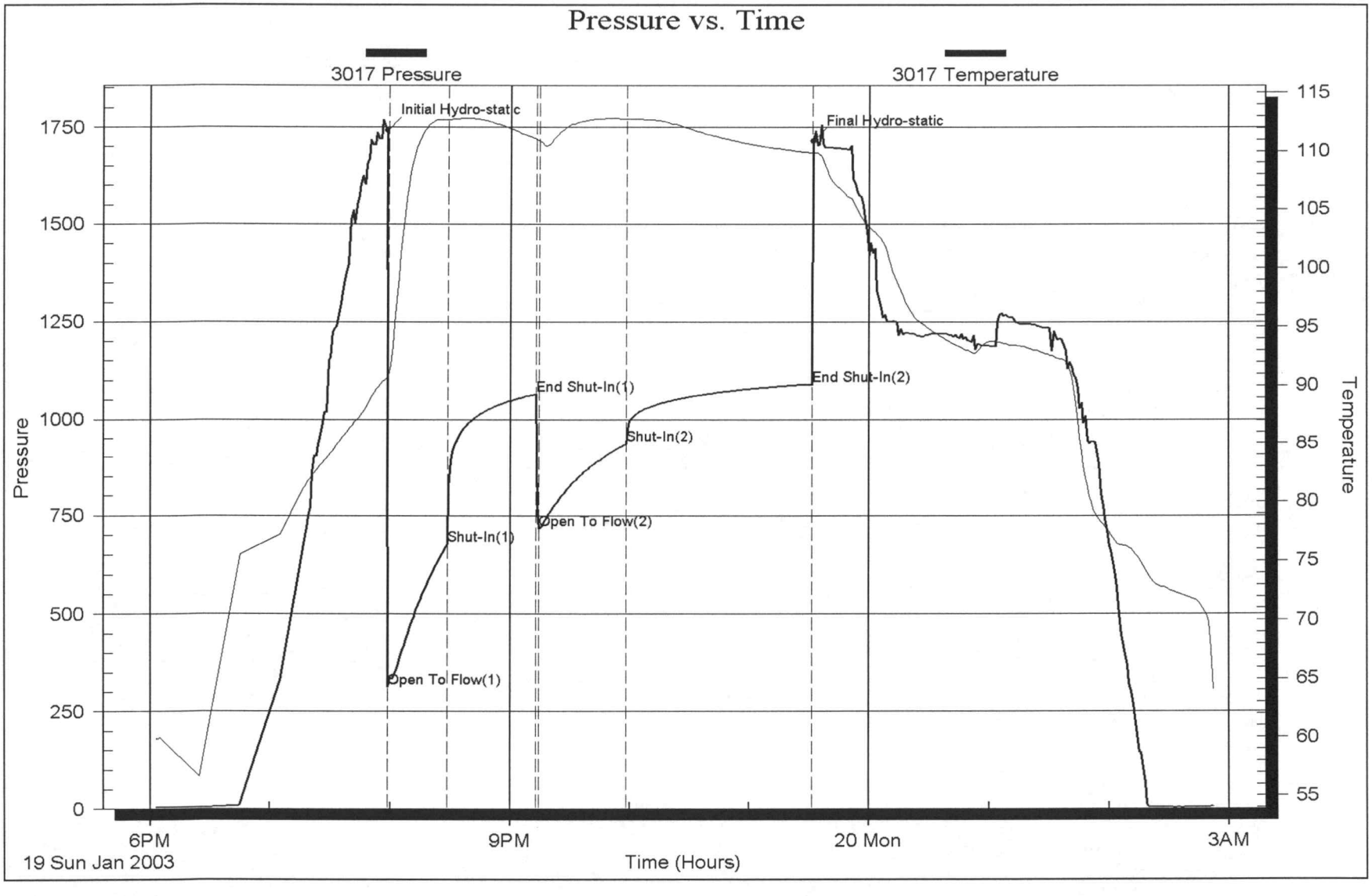
Length ft	Description	Volume bbl
2600.00	Gassy oil 10%G-90%O	32.736

Total Length: 2600.00 ft Total Volume: 32.736 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
3017 Pressure
3017 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
75
70
65
60
55
6PM
19 Sun Jan 2003
9PM
20 Mon
3AM
Time (Hours)