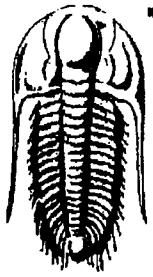
32-31s-13w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co,inc.**

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

32-31S-13W

#2 Dugan Trust "D"

Start Date: 2004.10.06 @ 12:29:46
End Date: 2004.10.06 @ 20:35:46
Job Ticket #: 19189 DST #: 1

15-007-30233-0001
SW NE NE
990 FNL 890 FEL

RECEIVED
DEC 10 2004
KCC WICHITA

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Co,inc.

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

#2 Dugan Trust "D"

32-31S-13W

Job Ticket: 19189 **DST#: 1**

Test Start: 2004.10.06 @ 12:29:46

GENERAL INFORMATION:

Formation: **Lecompton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:49:01
Time Test Ended: 20:35:46

Test Type: Conventional Straddle
Tester: Darren L.Amerine
Unit No: 30

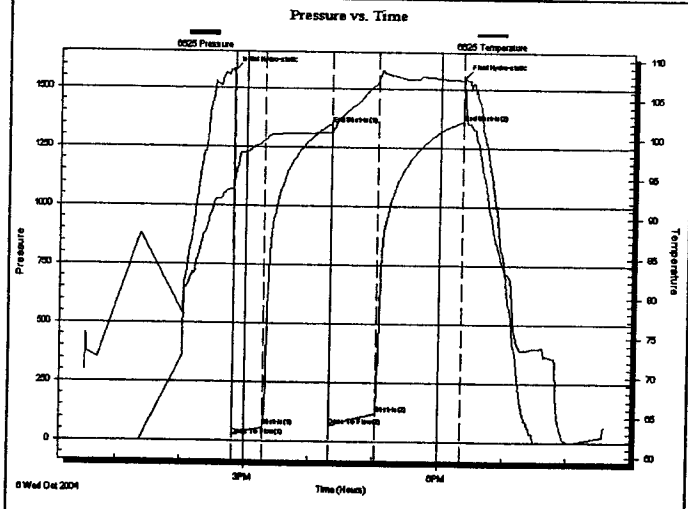
Interval: 3419.00 ft (KB) To 3452.00 ft (KB) (TVD)
Total Depth: 3720.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1618.00 ft (KB)
1607.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6625 **Outside**
Press@RunDepth: 118.19 psig @ 3421.00 ft (KB)
Start Date: 2004.10.06 End Date: 2004.10.06
Start Time: 12:29:49 End Time: 20:35:46

Capacity: 7000.00 psig
Last Calib.: 2004.10.06
Time On Btm: 2004.10.06 @ 14:47:46
Time Off Btm: 2004.10.06 @ 18:21:46

TEST COMMENT: IF:Fair blow b.o.b in 4-3/4 mins.
ISI:Bled down for 60 sec.built back to 4"in H20
FF:Weak blow built to 11"in H2O bucket.
FSI:Bled down for 10 mins.weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1574.97	93.59	Initial Hydro-static
2	20.97	94.42	Open To Flow (1)
30	60.97	99.83	Shut-In(1)
92	1349.54	100.74	End Shut-In(1)
92	64.51	100.56	Open To Flow (2)
135	118.19	107.31	Shut-In(2)
213	1362.56	107.41	End Shut-In(2)
214	1548.71	107.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	472'of gip	0.00
120.00	SGO&MCW 10%gas 2%oil 78%water 10%	1.68
98.00	G&OCWM 15%gas 10%oil 20%water 55%	1.37

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co,inc.

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

#2 Dugan Trust "D"

32-31S-13W

Job Ticket: 19189 **DST#: 1**

Test Start: 2004.10.06 @ 12:29:46

Tool Information

Drill Pipe:	Length:	3405.00 ft	Diameter:	3.80 inches	Volume:	47.76 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
					Total Volume:	47.76 bbl	

Drill Pipe Above KB:	10.00 ft
Depth to Top Packer:	3419.00 ft
Depth to Bottom Packer:	3452.00 ft
Interval between Packers:	33.00 ft
Tool Length:	325.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2100.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	70000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	52000.00 lb
Final	53000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3396.00		
Shut In Tool	5.00			3401.00		
Hydraulic tool	5.00			3406.00		
Jars	5.00			3411.00		
Safety Joint	3.00			3414.00		
Packer	5.00			3419.00	24.00	Bottom Of Top Packer
Stubb	2.00			3421.00		
Recorder	0.00	6625	Outside	3421.00		
Anchor	31.00			3452.00		
Recorder	0.00	10332	Outside	3452.00	33.00	Tool Interval
Packer	0.00			3452.00		
Stubb	1.00			3453.00		
Anchor	9.00			3462.00		
Drill Pipe	255.00			3717.00		
Recorder	0.00	10991	Below	3717.00		
Bullnose	3.00			3720.00	268.00	Bottom Packers & Anchor
Total Tool Length:	**325.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co,inc.

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

#2 Dugan Trust "D"

32-31S-13W

Job Ticket: 19189 **DST#: 1**

Test Start: 2004.10.06 @ 12:29:46

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:	78000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.36 in³	Gas Cushion Type:			
Resistivity:	1.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.32 inches				

Recovery Information

Recovery Table

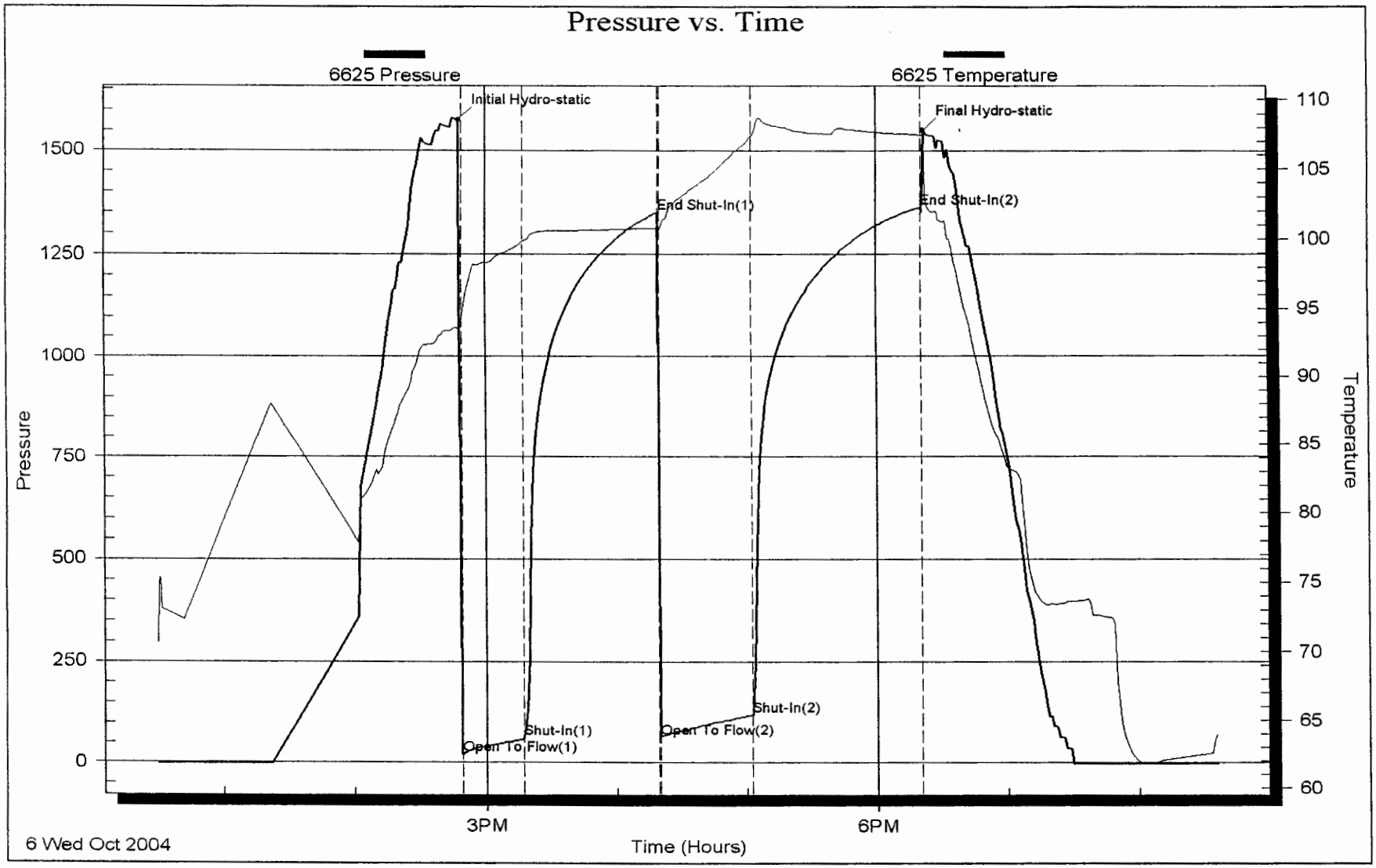
Length ft	Description	Volume bbl
0.00	472'of gip	0.000
120.00	SGO&MCW 10%gas 2%oil 78%water 10%mu	1.683
98.00	G&OCWM 15%gas 10%oil 20%water 55%mu	1.375

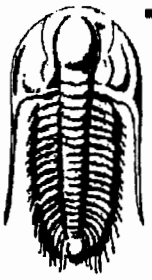
Total Length: 218.00 ft Total Volume: 3.058 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 0.1@67'degrees=78000


Pressure vs. Time
6625 Pressure
6625 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Open To Flow(1)
Shut-In(2)
Open To Flow(2)
Pressure
Temperature
1500
1250
1000
750
500
250
0
110
105
100
95
90
85
80
75
70
65
60
3PM
6PM
6 Wed Oct 2004
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co,inc.**

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

32-31S-13W

#2 Dugan Trust "D"

Start Date: 2004.10.08 @ 17:33:05
End Date: 2004.10.09 @ 01:32:50
Job Ticket #: 18349 DST #: 2

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Raymond Oil Co,inc.

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

#2 Dugan Trust "D"

32-31S-13W

Job Ticket: 18349 **DST#: 2**

Test Start: 2004.10.08 @ 17:33:05

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:22:50
Time Test Ended: 01:32:50

Test Type: Conventional Bottom Hole
Tester: Steve Clark
Unit No: 19

Interval: 4306.00 ft (KB) To 4350.00 ft (KB) (TVD)
Total Depth: 4350.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

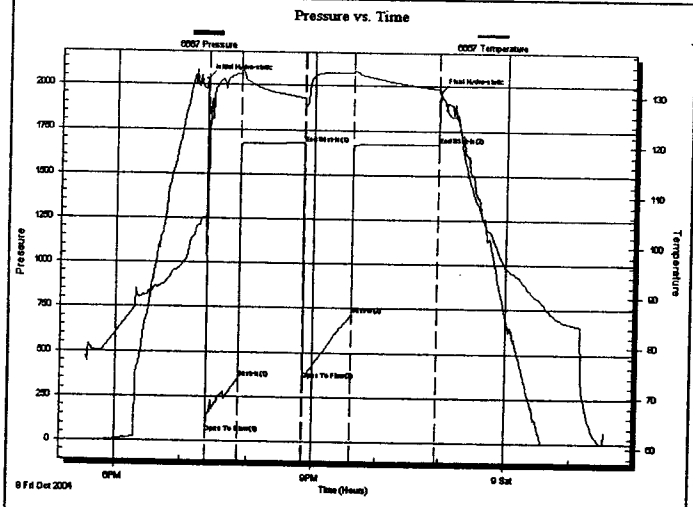
Reference Elevations: 1618.00 ft (KB)
1607.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 712.36 psig @ 4307.00 ft (KB)
Start Date: 2004.10.08 End Date: 2004.10.09
Start Time: 17:33:15 End Time: 01:32:50

Capacity: 7000.00 psig
Last Calib.: 2004.10.09
Time On Btm: 2004.10.08 @ 19:22:05
Time Off Btm: 2004.10.08 @ 22:58:05

TEST COMMENT: IF-strg blw 6min
ISI-After bleed off blw died 15min
FF-Strg blw 6min
FSI-After bleed off blw died



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2033.41	105.75	Initial Hydro-static
1	42.77	106.07	Open To Flow (1)
30	352.18	134.31	Shut-In(1)
90	1674.19	129.58	End Shut-In(1)
90	349.36	128.58	Open To Flow (2)
135	712.36	134.53	Shut-In(2)
215	1672.24	131.49	End Shut-In(2)
216	1967.63	129.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1320.00	Gassy saltw ater	18.52

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co,inc.

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

#2 Dugan Trust "D"

32-31S-13W

Job Ticket: 18349 **DST#: 2**

Test Start: 2004.10.08 @ 17:33:05

Tool Information

Drill Pipe:	Length:	4295.00 ft	Diameter:	3.80 inches	Volume:	60.25 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 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:		75000.00 lb
					Total Volume:	60.25 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		12.00 ft					String Weight:	Initial	62000.00 lb
Depth to Top Packer:		4306.00 ft						Final	68000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		44.00 ft							
Tool Length:		67.00 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			4284.00		
Shut In Tool	5.00			4289.00		
Hydraulic tool	5.00			4294.00		
Safety Joint	2.00			4296.00		
Packer	5.00			4301.00	23.00	Bottom Of Top Packer
Packer	5.00			4306.00		
Perforations	1.00			4307.00		
Recorder	0.00	6667	Inside	4307.00		
Perforations	7.00			4314.00		
Change Over Sub	1.00			4315.00		
Drill Pipe	31.00			4346.00		
Change Over Sub	1.00			4347.00		
Recorder	0.00	11019	Outside	4347.00		
Bullnose	3.00			4350.00	44.00	Bottom Packers & Anchor
Total Tool Length:	**67.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co,inc.

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

#2 Dugan Trust "D"

32-31S-13W

Job Ticket: 18349 **DST#: 2**

Test Start: 2004.10.08 @ 17:33:05

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:	44.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.56 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

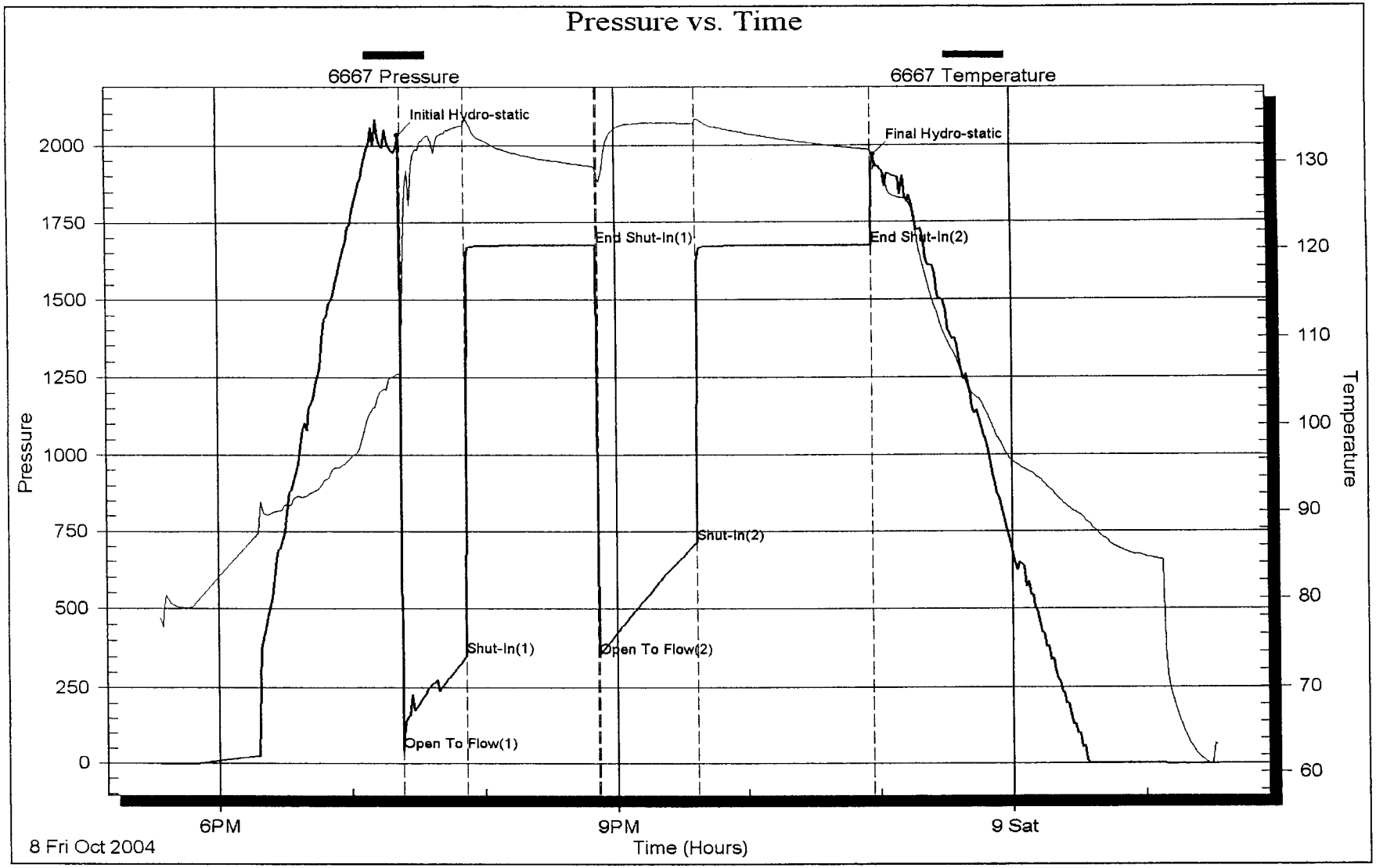
Length ft	Description	Volume bbl
1320.00	Gassy saltwater	18.516

Total Length: 1320.00 ft Total Volume: 18.516 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 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)
2000
1750
1500
1250
1000
750
500
250
0
Pressure
130
120
110
100
90
80
70
60
Temperature
6PM
9PM
9 Sat
8 Fri Oct 2004
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co,inc.**

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

32-31S-13W

#2 Dugan Trust "D"

Start Date: 2004.10.09 @ 23:25:47

End Date: 2004.10.10 @ 08:15:14

Job Ticket #: 19191 DST #: 3

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

DRILL STEM TEST REPORT

Raymond Oil Co,inc.

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

#2 Dugan Trust "D"

32-31S-13W

Job Ticket: 19191 **DST#: 3**

Test Start: 2004.10.09 @ 23:25:47

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:32:14
Time Test Ended: 08:15:14

Test Type: Conventional Straddle
Tester: Darren L.Amerine
Unit No: 30

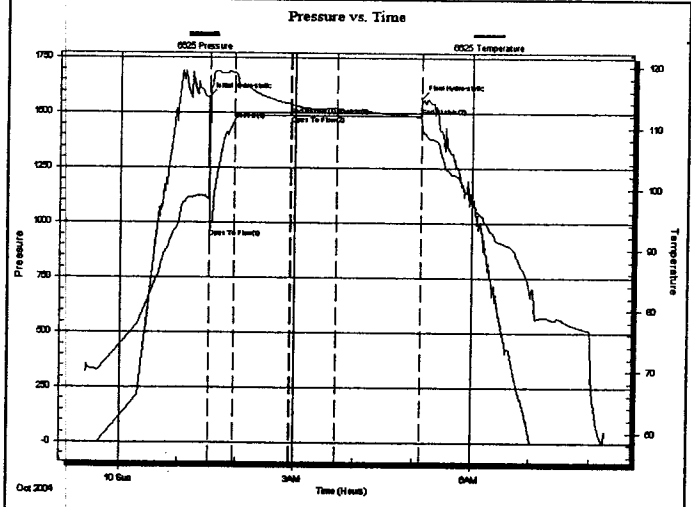
Interval: 3530.00 ft (KB) To 3556.00 ft (KB) (TVD)
Total Depth: 4454.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1618.00 ft (KB)
1607.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6625 **Inside**
Press@RunDepth: 1487.38 psig @ 3536.00 ft (KB)
Start Date: 2004.10.09 End Date: 2004.10.10
Start Time: 23:25:47 End Time: 08:15:14

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2004.10.10 @ 01:31:14
Time Off Btm: 2004.10.10 @ 05:08:14

TEST COMMENT: IF:Strong blow b.o.b in 15 sec.
ISI:Bled down for 3 mins.no blow back.
FF:Strong blow b.o.b in 3 mins.
FSI:Bled down for 5 mins.no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1570.99	98.30	Initial Hydro-static
1	932.75	104.95	Open To Flow (1)
27	1467.91	119.02	Shut-In(1)
85	1487.22	113.86	End Shut-In(1)
85	1487.23	113.81	Open To Flow (2)
131	1487.38	113.17	Shut-In(2)
217	1487.52	111.85	End Shut-In(2)
217	1567.60	111.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3100.00	Salt water	43.48

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co,inc.

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

#2 Dugan Trust "D"

32-31S-13W

Job Ticket: 19191 **DST#: 3**

Test Start: 2004.10.09 @ 23:25:47

Tool Information

Drill Pipe:	Length:	3506.00 ft	Diameter:	3.80 inches	Volume:	49.18 bbl
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl
					Total Volume:	49.18 bbl

Drill Pipe Above KB:	5.00 ft
Depth to Top Packer:	3530.00 ft
Depth to Bottom Packer:	3556.00 ft
Interval between Packers:	26.00 ft
Tool Length:	958.00 ft
Number of Packers:	3 Diameter: 6.75 inches

Tool Weight:	2100.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	85000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	62000.00 lb
Final	78000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3502.00		
Shut In Tool	5.00			3507.00		
Hydraulic tool	5.00			3512.00		
Jars	5.00			3517.00		
Safety Joint	3.00			3520.00		
Packer	5.00			3525.00	29.00	Bottom Of Top Packer
Packer	5.00			3530.00		
Stubb	1.00			3531.00		
Anchor	5.00			3536.00		
Recorder	0.00	6625	Inside	3536.00		
Anchor	16.00			3552.00		
Recorder	0.00	10332	Outside	3552.00		
Anchor	4.00			3556.00	26.00	Tool Interval
Packer	5.00			3561.00		
Stubb	1.00			3562.00		
Anchor	12.00			3574.00		
Recorder	0.00	10991	Below	3574.00		
Stubb	1.00			3575.00		
Drill Pipe	884.00			4459.00	903.00	Bottom Packers & Anchor
Total Tool Length:	**958.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co,inc.

P.O.48788
Wichita,Ks.67201

ATTN: Clarke Sandberg

#2 Dugan Trust "D"

32-31S-13W

Job Ticket: 19191 **DST#: 3**

Test Start: 2004.10.09 @ 23:25:47

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:	ppm
Viscosity:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	12.77 in³	Gas Cushion Type:			
Resistivity:	2.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6500.00 ppm				
Filter Cake:	0.32 inches				

Recovery Information

Recovery Table

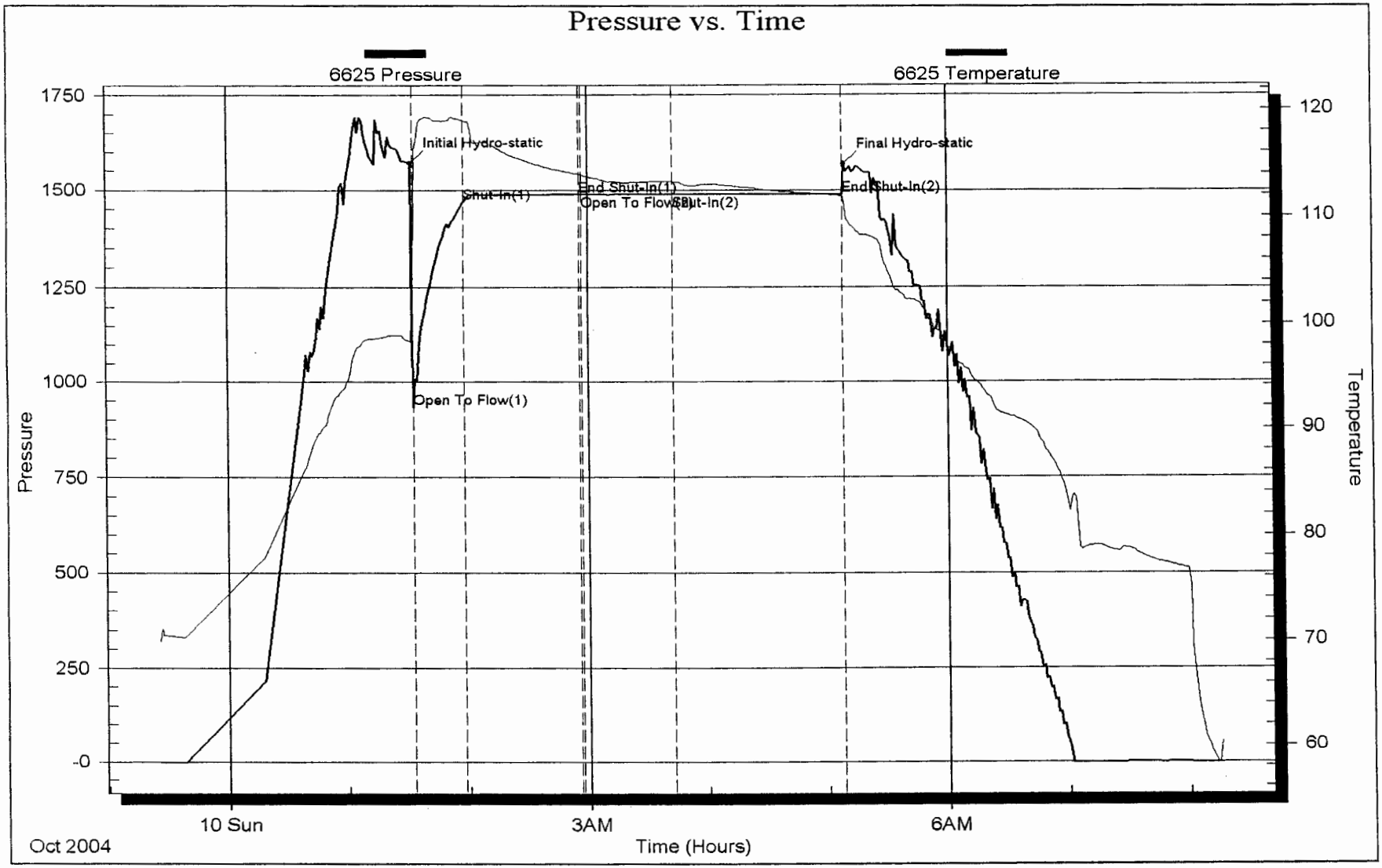
Length ft	Description	Volume bbl
3100.00	Salt w ater	43.485

Total Length: 3100.00 ft Total Volume: 43.485 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6625 Pressure
6625 Temperature
Initial Hydro-static
Final Hydro-static
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
End Shut-In(2)
Open To Flow(1)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
-0
120
110
100
90
80
70
60
10 Sun
3AM
6AM
Time (Hours)
Oct 2004