

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

520 S.Holland Suite 207
Wichita, Ks. 67209

ORIGINAL

ATTN: Kent Roberts

34-6s-22w Graham KS

Worcester # 1

Start Date: 2002.11.08 @ 12:51:56

End Date: 2002.11.08 @ 18:47:26

Job Ticket #: 16666 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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**TRILOBITE
TESTING, INC.**
DRILL STEM TEST REPORT

Roberts Resources Inc.

 520 S.Holland Suite 207
Wichita,Ks.67209

ATTN: Kent Roberts

Worcester # 1
34-6s-22w Graham KS

Job Ticket: 16666

DST#: 1

Test Start: 2002.11.08 @ 12:51:56

GENERAL INFORMATION:

 Formation: **Toronto**

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

Time Tool Opened: 14:35:56

Time Test Ended: 18:47:26

 Test Type: **Conventional Bottom Hole**

 Tester: **John Schmidt**

 Unit No: **18**

 Interval: **3504.00 ft (KB) To 3546.00 ft (KB) (TVD)**

 Total Depth: **3546.00 ft (KB) (TVD)**

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

 Reference Elevations: **2310.00 ft (KB)**
2305.00 ft (CF)

 KB to GR/CF: **5.00 ft**
Serial #: 3017
Inside

 Press@RunDepth: **298.32 psig @ 3508.01 ft (KB)**

 Start Date: **2002.11.08**

End Date:

2002.11.08

 Start Time: **12:51:58**

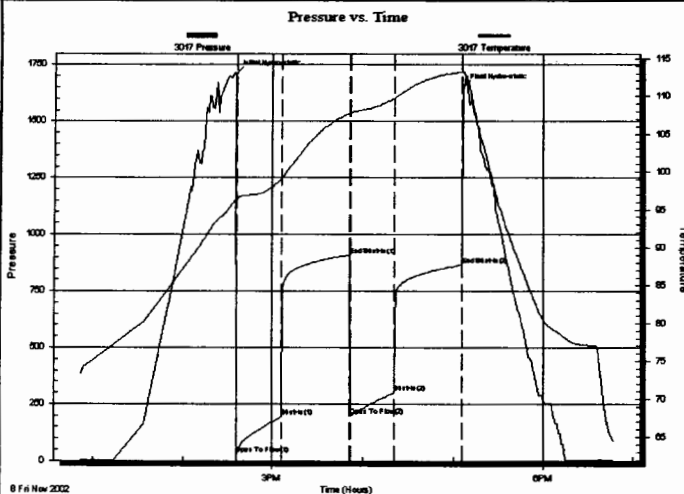
End Time:

18:47:26

 Capacity: **7000.00 psig**

 Last Calib.: **2002.11.08**

 Time On Btm: **2002.11.08 @ 14:35:26**

 Time Off Btm: **2002.11.08 @ 17:06:26**
TEST COMMENT: F-Weak to Strong B.O.B. in 9 min. IS- no blow back
FF-Weak to Strong B.O.B. in 16 min. FS- no blow back

PRESSURE SUMMARY

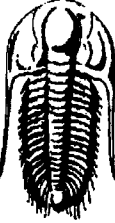
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1709.16	96.29	Initial Hydro-static
1	27.07	96.26	Open To Flow (1)
31	193.33	99.11	Shut-In(1)
76	907.91	107.76	End Shut-In(1)
77	198.10	107.86	Open To Flow (2)
105	298.32	109.71	Shut-In(2)
151	865.37	113.22	End Shut-In(2)
151	1649.47	113.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
573.00	Muddy Salt Water--10% mud--90% water	6.91

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		TOOL DIAGRAM
	Roberts Resources Inc. 520 S.Holland Suite 207 Wichita,Ks.67209 ATTN: Kent Roberts	Worcester # 1 34-6s-22w Graham KS Job Ticket: 16666 DST#: 1 Test Start: 2002.11.08 @ 12:51:56	

Tool Information			
Drill Pipe:	Length: 3367.00 ft	Diameter: 3.80 inches	Volume: 47.23 bbl
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl
		Total Volume: 47.84 bbl	
Drill Pipe Above KB:	7.00 ft		
Depth to Top Packer:	3504.00 ft		
Depth to Bottom Packer:	ft		
Interval between Packers:	42.02 ft		
Tool Length:	62.02 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			3485.00		
S.I. Tool	5.00			3490.00		
HMV	5.00			3495.00		
Packer	4.00			3499.00	20.00	Bottom Of Top Packer
Packer	5.00			3504.00		
Stubb	1.00			3505.00		
Perforations	2.00			3507.00		
C.O. Sub	1.00			3508.00		
Recorder	0.01	3017	Inside	3508.01		
Blank Spacing	30.00			3538.01		
C.O. Sub	1.00			3539.01		
Perforations	4.00			3543.01		
Recorder	0.01	13308	Outside	3543.02		
Bullnose	3.00			3546.02	42.02	Bottom Packers & Anchor
Total Tool Length:		62.02				

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.

Worcester # 1

520 S.Holland Suite 207
Wichita,Ks.67209

34-6s-22w Graham KS

Job Ticket: 16666

DST#: 1

ATTN: Kent Roberts

Test Start: 2002.11.08 @ 12:51:56

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 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
573.00	Muddy Salt Water--10% mud--90% water	6.908

Total Length: 573.00 ft

Total Volume: 6.908 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

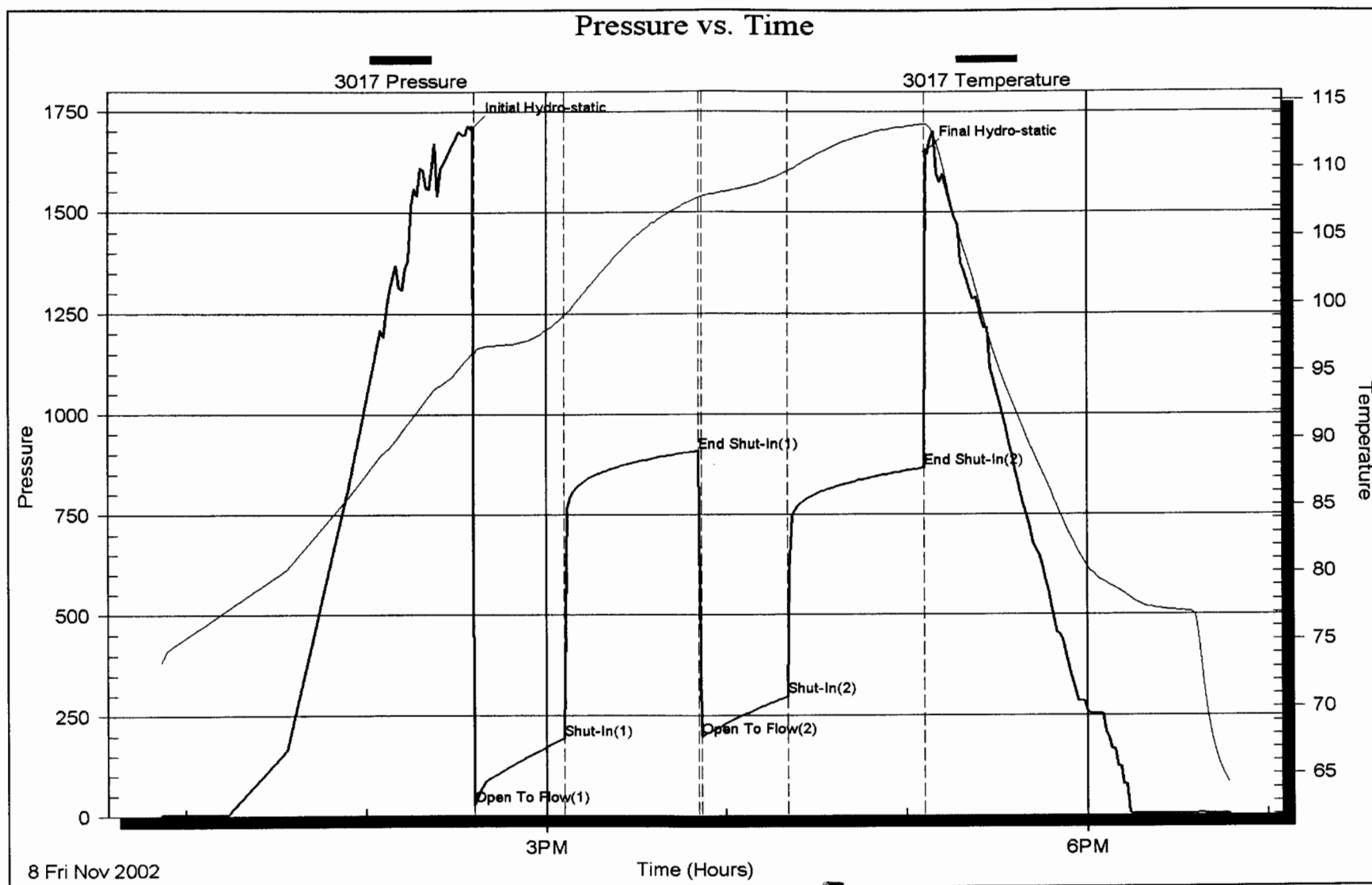
Serial #: 3017

Inside

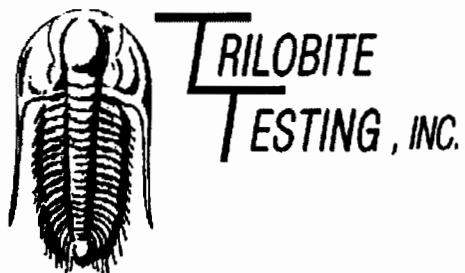
Roberts Resources Inc.

34-6s-22w Graham KS

DST Test Number: 1



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DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

520 S.Holland Suite 207
Wichita,Ks.67209

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ATTN: Kent Roberts

34-6s-22w Graham KS

Worcester # 1

Start Date: 2002.11.09 @ 08:20:02

End Date: 2002.11.09 @ 14:01:32

Job Ticket #: 16667 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

Roberts Resources Inc.

520 S.Holland Suite 207
Wichita,Ks.67209

ATTN: Kent Roberts

Worcester # 1

34-6s-22w Graham KS

Job Ticket: 16667

DST#: 2

Test Start: 2002.11.09 @ 08:20:02

GENERAL INFORMATION:

Formation: **L.Kc.-E**

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

Time Tool Opened: 09:59:32

Time Test Ended: 14:01:32

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3609.00 ft (KB) To 3620.00 ft (KB) (TVD)**

Total Depth: **3620.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2310.00 ft (KB)**

2305.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3017

Inside

Press@RunDepth: **85.29 psig @ 3610.01 ft (KB)**

Start Date: **2002.11.09**

End Date:

2002.11.09

Start Time: **08:20:04**

End Time:

14:01:32

Capacity: **7000.00 psig**

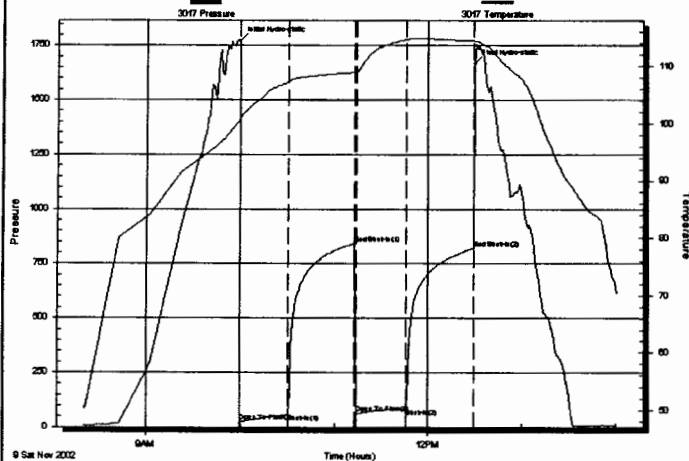
Last Calib.: **2002.11.09**

Time On Btm: **2002.11.09 @ 09:59:02**

Time Off Btm: **2002.11.09 @ 12:30:02**

TEST COMMENT: **F-Weak Built 2" in** **ISI- no blow back**
FF-Weak Built 1" in **FST-no blow back**

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1772.37	100.78	Initial Hydro-static
1	24.27	101.02	Open To Flow (1)
31	59.30	107.41	Shut-In(1)
74	840.86	109.01	End Shut-In(1)
75	63.32	109.04	Open To Flow (2)
107	85.29	114.74	Shut-In(2)
150	818.03	114.50	End Shut-In(2)
151	1666.46	114.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	Salt Water	0.90

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.

520 S.Holland Suite 207
Wichita,Ks.67209

ATTN: Kent Roberts

Worcester # 1

34-6s-22w Graham KS

Job Ticket: 16667

DST#:2

Test Start: 2002.11.09 @ 08:20:02

Tool Information

Drill Pipe:	Length: 3492.00 ft	Diameter: 3.80 inches	Volume: 48.98 bbl	Tool Weight:	2000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	55000.00 lb	
			Total Volume:	49.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	44000.00 lb	
Depth to Top Packer:	3609.00 ft			Final	44000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	11.02 ft					
Tool Length:	31.02 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
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C.O. Sub	1.00			3590.00	
S.I. Tool	5.00			3595.00	
HMV	5.00			3600.00	
Packer	4.00			3604.00	20.00 Bottom Of Top Packer
Packer	5.00			3609.00	
Stubb	1.00			3610.00	
Recorder	0.01	3017	Inside	3610.01	
Perforations	7.00			3617.01	
Recorder	0.01	13308	Outside	3617.02	
Bullnose	3.00			3620.02	11.02 Bottom Packers & Anchor
Total Tool Length:		31.02			



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DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.

Worcester # 1

520 S.Holland Suite 207
Wichita,Ks.67209

34-6s-22w Graham KS

Job Ticket: 16667

DST#: 2

ATTN: Kent Roberts

Test Start: 2002.11.09 @ 08:20:02

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:

45000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 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
145.00	Salt Water	0.904

Total Length: 145.00 ft

Total Volume: 0.904 bbl

Num Fluid Samples: 0

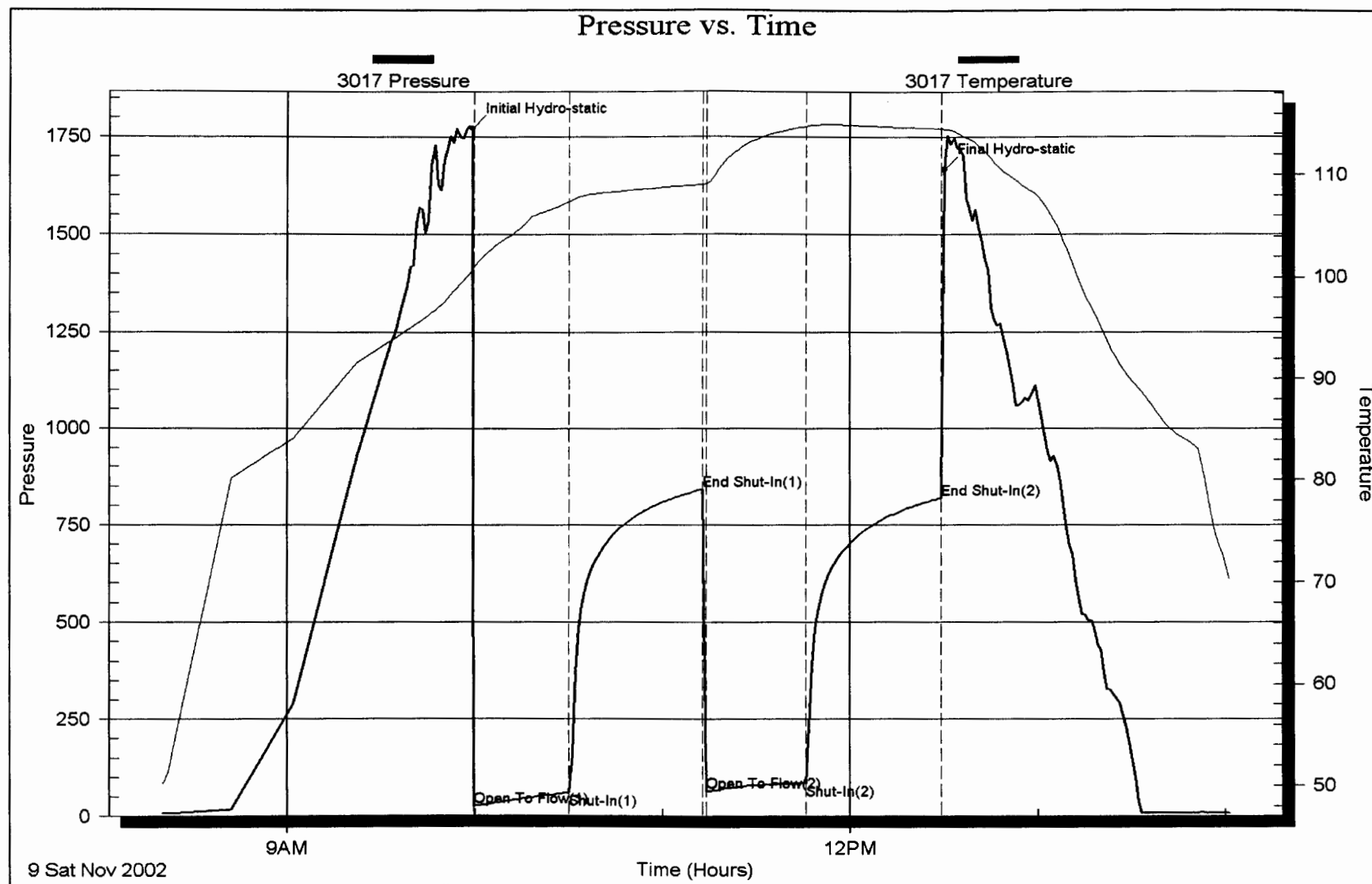
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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Wichita, Ks. 67209

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ATTN: Kent Roberts

34-6s-22w Graham KS

Worcester # 1

Start Date: 2002.11.09 @ 19:42:42

End Date: 2002.11.10 @ 02:02:12

Job Ticket #: 16668 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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Roberts Resources Inc.

520 S.Holland Suite 207
Wichita, Ks. 67209

ATTN: Kent Roberts

Worcester # 1

34-6s-22w Graham KS

Job Ticket: 16668

DST#: 3

Test Start: 2002.11.09 @ 19:42:42

GENERAL INFORMATION:

Formation: **L.Kc.-F**

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

Time Tool Opened: 21:27:12

Time Test Ended: 02:02:12

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3620.00 ft (KB) To 3637.00 ft (KB) (TVD)**

Total Depth: **3637.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2310.00 ft (KB)**

2305.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3017

Inside

Press@RunDepth: **286.92 psig @ 3623.01 ft (KB)**

Start Date: **2002.11.09**

End Date:

2002.11.10

Start Time: **19:42:44**

End Time:

02:02:12

Capacity: **7000.00 psig**

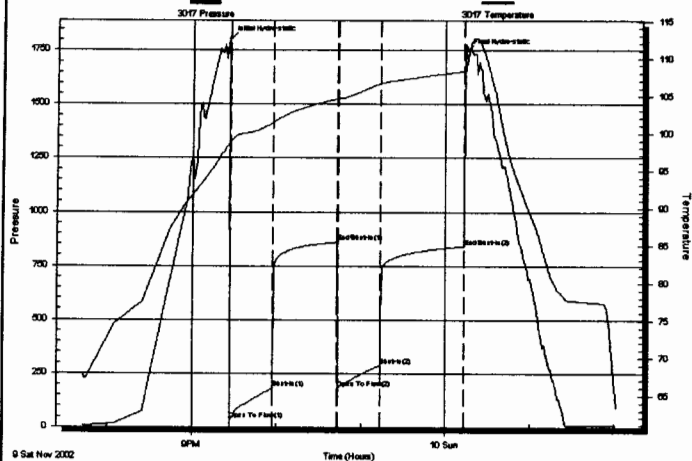
Last Calib.: **2002.11.10**

Time On Btm: **2002.11.09 @ 21:26:42**

Time Off Btm: **2002.11.10 @ 00:14:12**

TEST COMMENT: **IF-Strong B.O.B. in 12 min. IS-Weak Blow back**
FF-Weak to Strong B.O.B. in 17 min. FS- no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1801.92	98.76	Initial Hydro-static
1	35.26	98.99	Open To Flow (1)
31	182.04	101.43	Shut-In(1)
76	858.42	104.60	End Shut-In(1)
77	182.90	104.60	Open To Flow (2)
107	286.92	106.62	Shut-In(2)
167	839.03	108.30	End Shut-In(2)
168	1743.99	108.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
568.00	Salt Water	6.84

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.

Worcester # 1

520 S.Holland Suite 207
Wichita,Ks.67209

34-6s-22w Graham KS

Job Ticket: 16668

DST#: 3

ATTN: Kent Roberts

Test Start: 2002.11.09 @ 19:42:42

Tool Information

Drill Pipe:	Length: 3492.00 ft	Diameter: 3.80 inches	Volume: 48.98 bbl	Tool Weight:	2100.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	50000.00 lb		
			Total Volume:	49.59 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	44000.00 lb	Final	46000.00 lb
Depth to Top Packer:	3620.00 ft						
Depth to Bottom Packer:	ft						
Interval between Packers:	17.02 ft						
Tool Length:	37.02 ft						
Number of Packers:	2	Diameter:	6.75 inches				
Tool Comments:							

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3601.00		
S.I. Tool	5.00			3606.00		
HMV	5.00			3611.00		
Packer	4.00			3615.00	20.00	Bottom Of Top Packer
Packer	5.00			3620.00		
Stubb	1.00			3621.00		
Perforations	2.00			3623.00		
Recorder	0.01	3017	Inside	3623.01		
Perforations	11.00			3634.01		
Recorder	0.01	13308	Outside	3634.02		
Bullnose	3.00			3637.02	17.02	Bottom Packers & Anchor

Total Tool Length: 37.02

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DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.

Worcester # 1

520 S.Holland Suite 207
Wichita,Ks.67209

34-6s-22w Graham KS

Job Ticket: 16668

DST#: 3

ATTN: Kent Roberts

Test Start: 2002.11.09 @ 19:42:42

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:

95000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 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
568.00	Salt Water	6.838

Total Length: 568.00 ft

Total Volume: 6.838 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

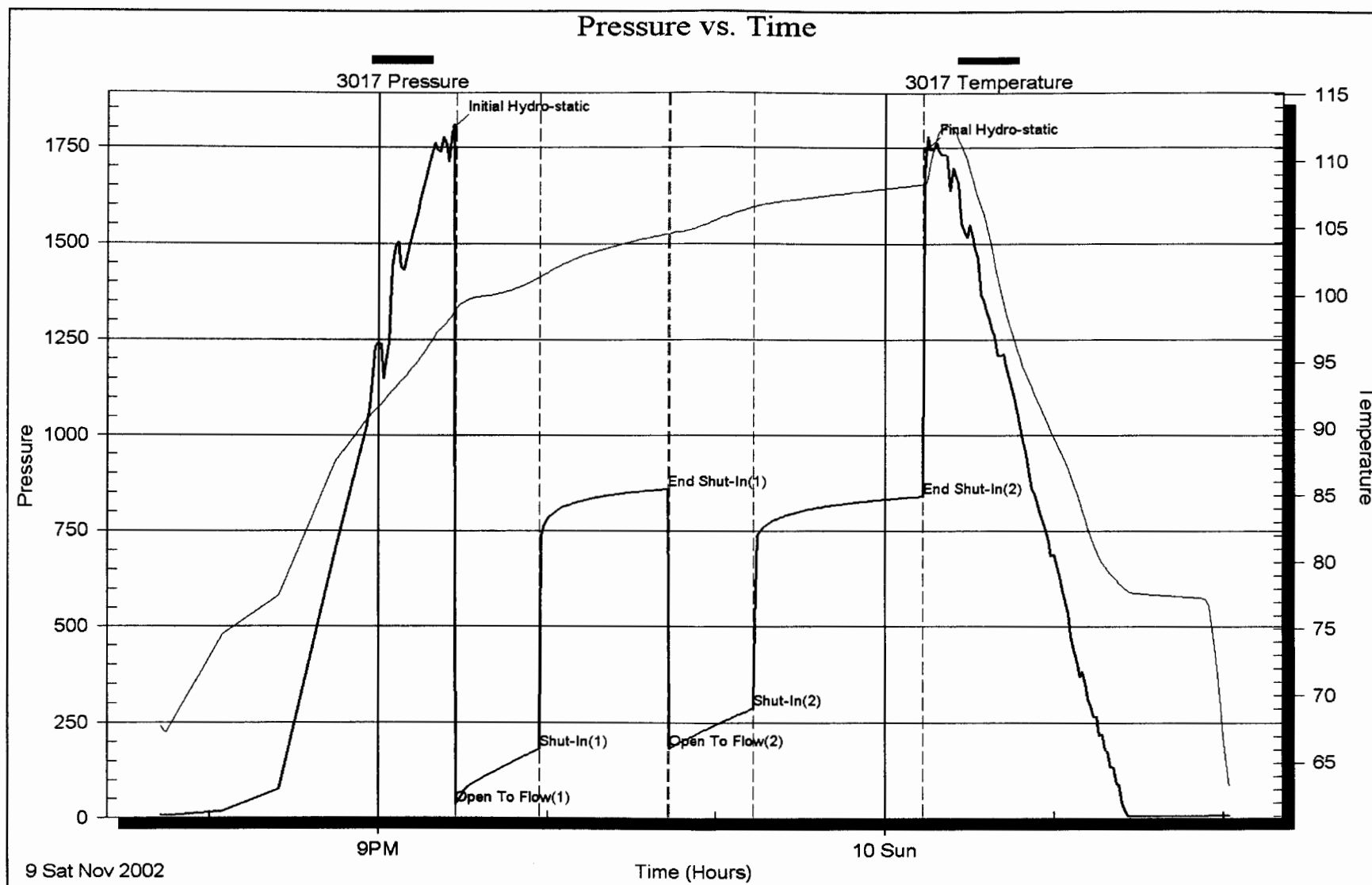
Recovery Comments:

Serial #: 3017

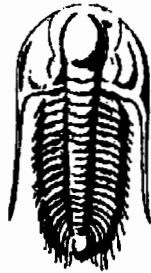
Inside Roberts Resources Inc.

34-6s-22w Graham KS

DST Test Number: 3



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**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

520 S.Holland Suite 207
Wichita,Ks.67209

ATTN: Kent Roberts

34-6s-22w Graham KS

Worcester # 1

Start Date: 2002.11.10 @ 11:02:17

End Date: 2002.11.10 @ 16:11:17

Job Ticket #: 16669 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Roberts Resources Inc.

Worcester # 1

34-6s-22w Graham KS

DST # 4

L.Kc.-H-18J

2002.11.10



**TRILOBITE
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DRILL STEM TEST REPORT

Roberts Resources Inc.

520 S.Holland Suite 207
Wichita,Ks.67209

ATTN: Kent Roberts

Worcester # 1

34-6s-22w Graham KS

Job Ticket: 16669

DST#: 4

Test Start: 2002.11.10 @ 11:02:17

GENERAL INFORMATION:

Formation: **L.Kc.-H-I&J**

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

Time Tool Opened: 12:42:47

Time Test Ended: 16:11:17

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3658.00 ft (KB) To 3718.00 ft (KB) (TVD)**

Total Depth: **3718.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2310.00 ft (KB)**

2305.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 3017

Inside

Press@RunDepth: **50.00 psig @ 3662.01 ft (KB)**

Start Date: **2002.11.10**

End Date:

2002.11.10

Start Time: **11:02:19**

End Time:

16:11:17

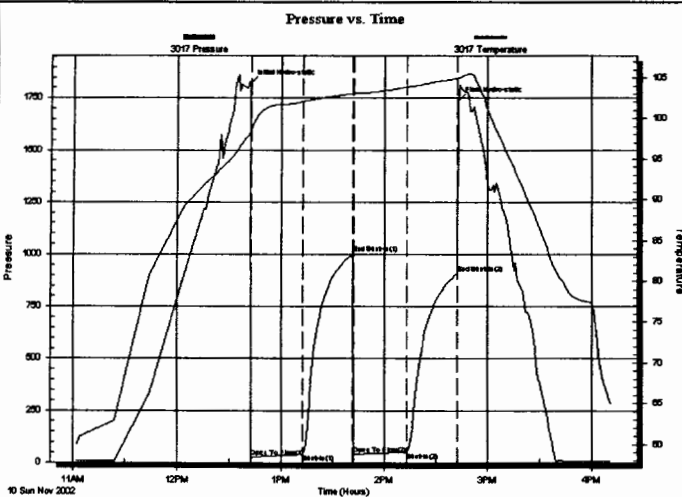
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2002.11.10 @ 12:42:17**

Time Off Btm: **2002.11.10 @ 14:43:17**

TEST COMMENT: **F-Weak built 1" in** **ISI-no blow**
FF-Very Weak Surf. blow **FSI no blow**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.49	98.35	Initial Hydro-static
1	24.53	98.47	Open To Flow (1)
31	39.23	102.05	Shut-In(1)
60	1002.64	103.07	End Shut-In(1)
60	39.97	103.04	Open To Flow (2)
91	50.00	103.83	Shut-In(2)
121	907.49	104.91	End Shut-In(2)
121	1736.01	104.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud	0.15

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.

Worcester # 1

520 S.Holland Suite 207
Wichita,Ks.67209

34-6s-22w Graham KS

Job Ticket: 16669

DST#:4

ATTN: Kent Roberts

Test Start: 2002.11.10 @ 11:02:17

Tool Information

Drill Pipe:	Length: 3524.00 ft	Diameter: 3.80 inches	Volume: 49.43 bbl	Tool Weight:	3000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	50.04 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3658.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.02 ft				
Tool Length:	80.02 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
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C.O. Sub	1.00			3639.00	
S.I. Tool	5.00			3644.00	
HMV	5.00			3649.00	
Packer	4.00			3653.00	20.00 Bottom Of Top Packer
Packer	5.00			3658.00	
Stubb	1.00			3659.00	
Perforations	2.00			3661.00	
C.O. Sub	1.00			3662.00	
Recorder	0.01	3017	Inside	3662.01	
Blank Spacing	30.00			3692.01	
C.O. Sub	1.00			3693.01	
Perforations	22.00			3715.01	
Recorder	0.01	13308	Outside	3715.02	
Bullnose	3.00			3718.02	60.02 Bottom Packers & Anchor

Total Tool Length: 80.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.

Worcester # 1

520 S.Holland Suite 207
Wichita,Ks.67209

34-6s-22w Graham KS

Job Ticket: 16669

DST#: 4

ATTN: Kent Roberts

Test Start: 2002.11.10 @ 11:02:17

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 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
30.00	Drilling Mud	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

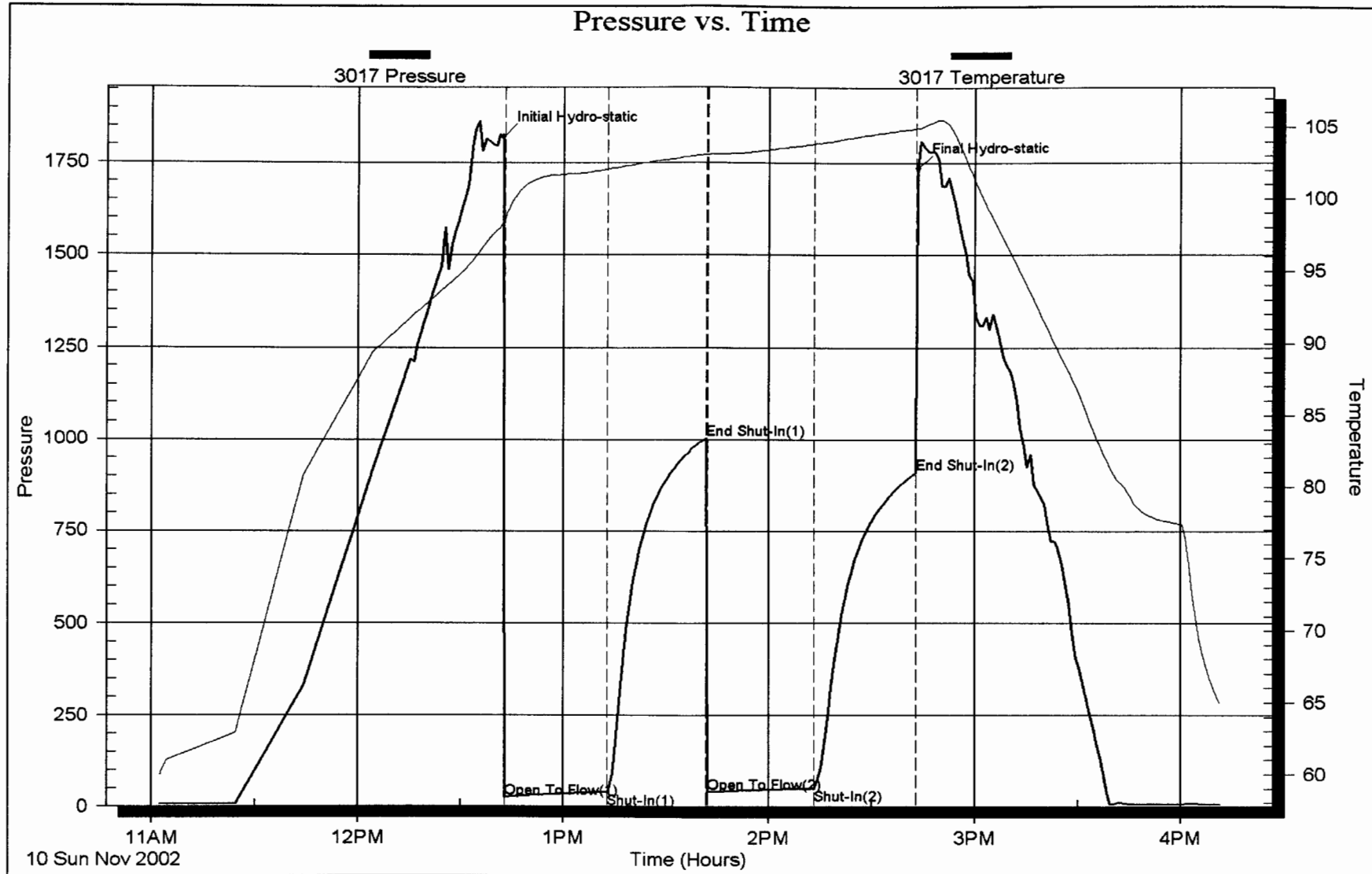
Recovery Comments:

Serial #: 3017

Inside Roberts Resources Inc.

34-6s-22w Graham KS

DST Test Number: 4



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