

15-097-21509



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

520 S.Holland Ste.207
Wichita Ks.67209

RECEIVED
OCT 23 2003
KCC WICHITA

ATTN: Kent Roberts

8-29s-18w Kiowa Ks.

Schmidt #1

Start Date: 2003.07.18 @ 04:05:43

End Date: 2003.07.18 @ 11:07:43

Job Ticket #: 17897 DST #: 1

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 Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17897

DST#: 1

Test Start: 2003.07.18 @ 04:05:43

GENERAL INFORMATION:

Formation: **Lans. A**

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

Time Tool Opened: 06:56:13

Time Test Ended: 11:07:43

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4349.00 ft (KB) To 4375.00 ft (KB) (TVD)**

Total Depth: **4375.00 ft (KB) (TVD)**

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

Reference Elevations: **2292.00 ft (KB)**

2281.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **78.59 psig @ 4350.00 ft (KB)**

Start Date: **2003.07.18**

End Date:

2003.07.18

Capacity: **7000.00 psig**

Last Calib.:

2003.07.18

Start Time: **04:05:44**

End Time:

11:07:43

Time On Btm:

2003.07.18 @ 06:55:58

Time Off Btm:

2003.07.18 @ 08:59:13

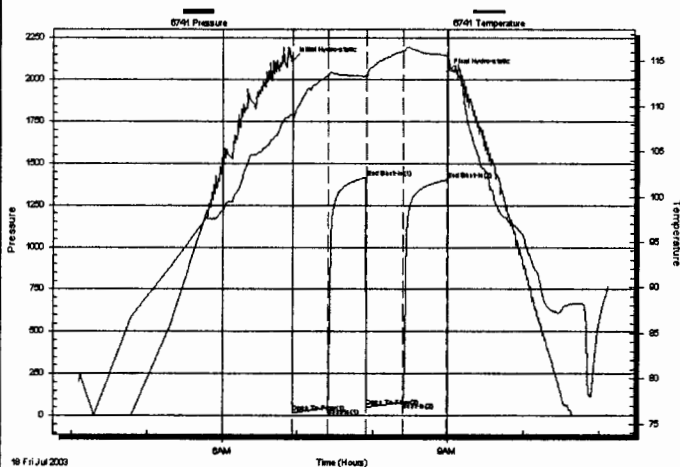
TEST COMMENT: **IF:Weak blow . Slow increase to 3".**

IS:No blow .

FF:Weak blow . 1/4 - 1".

FS:No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.60	109.06	Initial Hydro-static
1	17.86	108.56	Open To Flow (1)
29	47.91	113.42	Shut-In (1)
59	1415.45	113.31	End Shut-In (1)
60	50.67	113.02	Open To Flow (2)
88	78.59	116.13	Shut-In (2)
123	1402.00	115.61	End Shut-In (2)
124	2048.28	115.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	MW Rv .09 ohms @ 88 deg 10% m 90% v1.96	

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 Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17897

DST#: 1

Test Start: 2003.07.18 @ 04:05:43

Tool Information

Drill Pipe:	Length: 4337.00 ft	Diameter: 3.80 inches	Volume: 60.84 bbl	Tool Weight:	2100.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb	
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	73000.00 lb	
			Total Volume:	60.84 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	66000.00 lb	
Depth to Top Packer:	4349.00 ft			Final	66000.00 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
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C.O. Sub	1.00			4330.00	
S.I. Tool	5.00			4335.00	
HMV	5.00			4340.00	
Packer	4.00			4344.00	20.00 Bottom Of Top Packer
Packer	5.00			4349.00	
Stubb	1.00			4350.00	
Recorder	0.00	6741	Inside	4350.00	
Perforations	20.00			4370.00	
Recorder	0.00	13222	Outside	4370.00	
Bullnose	5.00			4375.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.

Schmidt #1

520 S.Holland Ste.207
Wichita Ks.67209

8-29s-18w Kiowa Ks.

Job Ticket: 17897

DST#: 1

ATTN: Kent Roberts

Test Start: 2003.07.18 @ 04:05:43

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:

66000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	MW Rw .09 ohms @ 88 deg 10% m 90% w	1.964

Total Length: 140.00 ft

Total Volume: 1.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

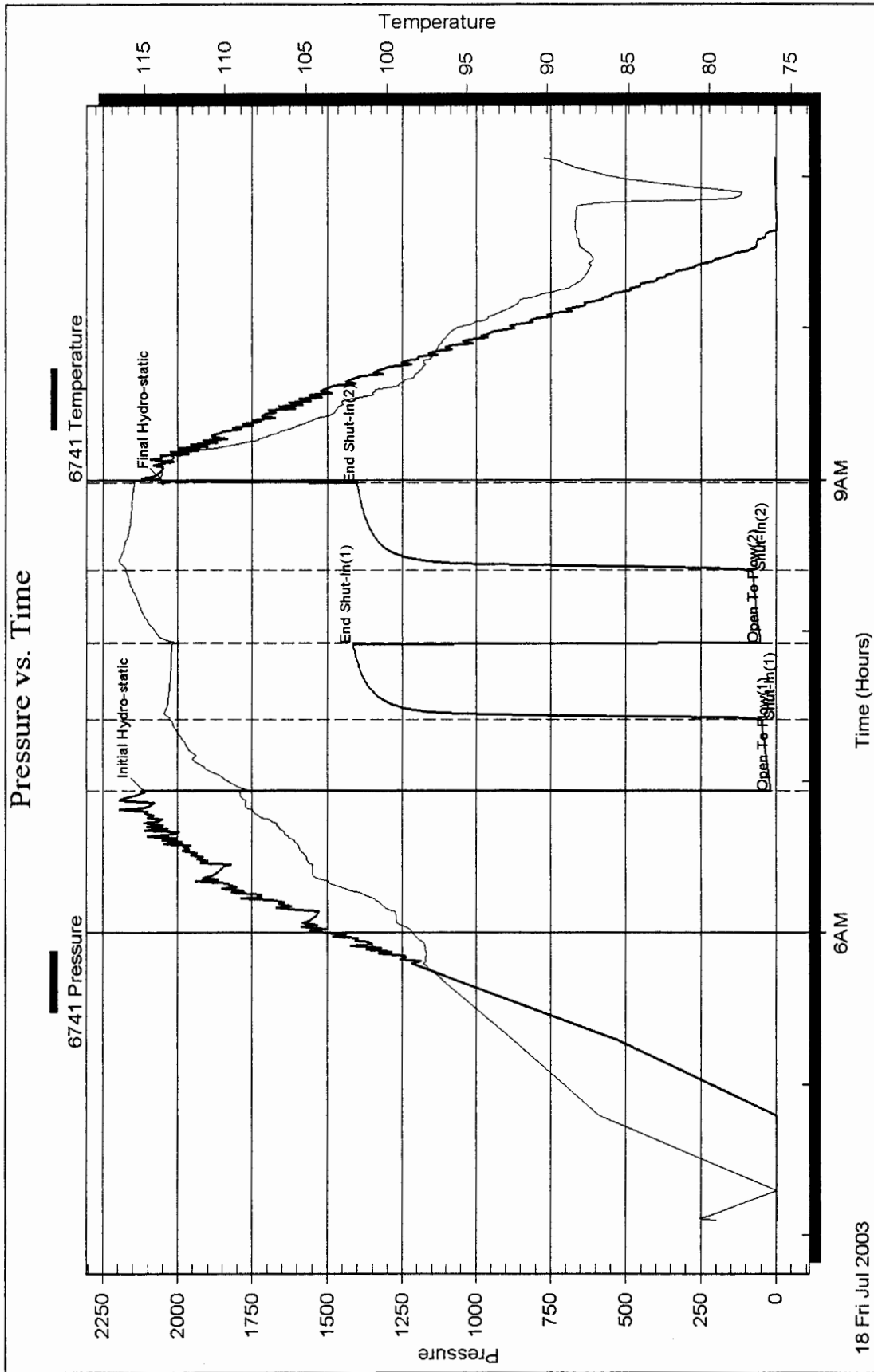
Serial #: 6741

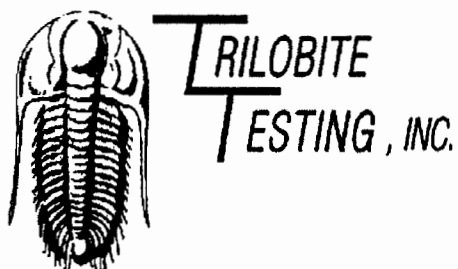
Inside

Roberts Resources Inc.

8-29s-18w Kiowa Ks.

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

520 S.Holland Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

8-29s-18w Kiowa Ks.

Schmidt #1

Start Date: 2003.07.18 @ 21:56:45

End Date: 2003.07.19 @ 06:55:15

Job Ticket #: 17898

DST #: 2

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OCT 23 2003
KCC WICHITA

Roberts Resources Inc.

Schmidt #1

8-29s-18w Kiowa Ks.

DST # 2

Lams. D

2003.07.18

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 Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17898

DST#: 2

Test Start: 2003.07.18 @ 21:56:45

GENERAL INFORMATION:

Formation: **Lams. D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:45

Time Test Ended: 06:55:15

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4441.00 ft (KB) To 4473.00 ft (KB) (TVD)**

Total Depth: 4473.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2292.00 ft (KB)

2281.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6741**

Inside

Press@RunDepth: 812.01 psig @ 4442.00 ft (KB)

Start Date: 2003.07.18

End Date:

2003.07.19

Capacity: 7000.00 psig

Last Calib.: 2003.07.19

Start Time: 21:56:46

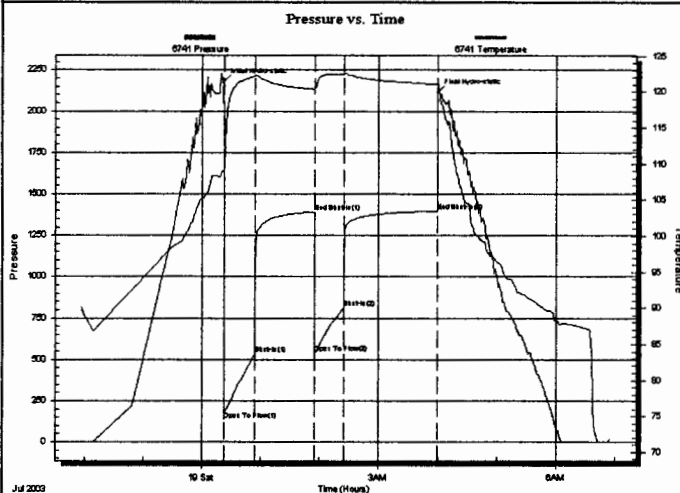
End Time:

06:55:15

Time On Btm: 2003.07.19 @ 00:22:15

Time Off Btm: 2003.07.19 @ 03:59:45

TEST COMMENT: IF: Strong blow . B.O.B. in 4 mins.
IS: Weak blow . 1/2 - 1 1/2".
FF: Strong blow . B.O.B. in 5.25 mins.
FS: Weak blow . 1/2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.69	109.01	Initial Hydro-static
1	136.99	108.72	Open To Flow (1)
32	532.13	122.19	Shut-In (1)
93	1392.48	120.39	End Shut-In (1)
93	541.76	120.06	Open To Flow (2)
122	812.01	122.47	Shut-In (2)
218	1398.05	121.10	End Shut-In (2)
218	2115.56	121.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1140.00	GCW 10%g 90%w Rw .09 ohms @ 74	15.99
180.00	MW 18%m 82%w	2.52

Gas Rates

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

TOOL DIAGRAM

Roberts Resources Inc.

520 S.Holland Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17898

DST#: 2

Test Start: 2003.07.18 @ 21:56:45

Tool Information

Drill Pipe:	Length: 4429.00 ft	Diameter: 3.80 inches	Volume: 62.13 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 86000.00 lb
		Total Volume: 62.13 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4441.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4422.00	
S.I. Tool	5.00			4427.00	
HMV	5.00			4432.00	
Packer	4.00			4436.00	20.00 Bottom Of Top Packer
Packer	5.00			4441.00	
Stubb	1.00			4442.00	
Recorder	0.00	6741	Inside	4442.00	
Perforations	26.00			4468.00	
Recorder	0.00	13222	Outside	4468.00	
Bullnose	5.00			4473.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.

Schmidt #1

520 S.Holland Ste.207
Wichita Ks.67209

8-29s-18w Kiowa Ks.

Job Ticket: 17898

DST#: 2

ATTN: Kent Roberts

Test Start: 2003.07.18 @ 21:56:45

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:

94000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.35 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1140.00	GCW 10%g 90%w Rw .09 ohms @ 74 deg.	15.991
180.00	MW 18%m 82%w	2.525

Total Length: 1320.00 ft

Total Volume: 18.516 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

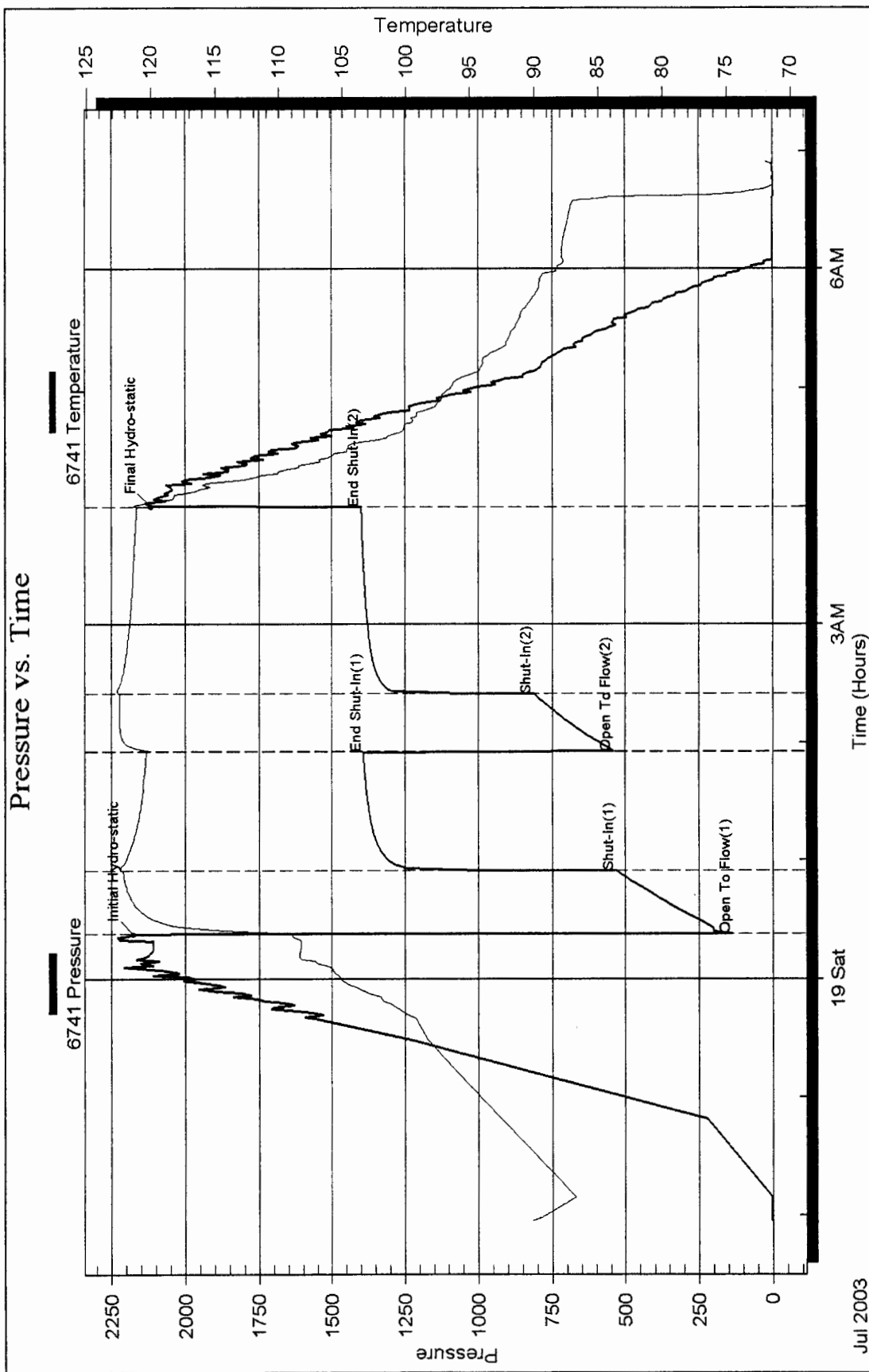
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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Prepared For: **Roberts Resources Inc.**

520 S.Holland Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

8-29s-18w Kiowa Ks.

Schmidt #1

Start Date: 2003.07.20 @ 11:34:44

End Date: 2003.07.20 @ 20:29:29

Job Ticket #: 17899 DST #: 3

RECEIVED
OCT 23 2003
KCC WICHITA

Roberts Resources Inc.

Schmidt #1

8-29s-18w Kiowa Ks.

DST # 3

Altamont

2003.07.20

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 Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17899

DST#: 3

Test Start: 2003.07.20 @ 11:34:44

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:10:14

Time Test Ended: 20:29:29

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4796.00 ft (KB) To 4828.00 ft (KB) (TVD)**

Total Depth: 4828.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2292.00 ft (KB)

2281.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6741

Inside

Press@RunDepth: 116.01 psig @ 4797.00 ft (KB)

Start Date: 2003.07.20

End Date:

2003.07.20

Start Time: 11:34:45

End Time:

20:29:29

Capacity: 7000.00 psig

Last Calib.: 2003.07.20

Time On Btm: 2003.07.20 @ 14:08:44

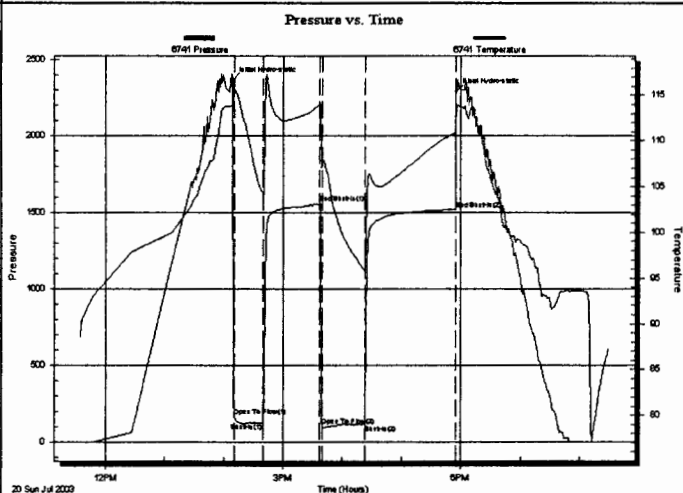
Time Off Btm: 2003.07.20 @ 17:55:29

TEST COMMENT: IF:String blow . GTS in 5 mins. (see gas volume report)

IS:Venting throughout.

FF:Strong blow . (see gas volume report)

FS:Venting throughout.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2366.18	113.91	Initial Hydro-static
2	168.15	115.55	Open To Flow (1)
32	124.42	104.07	Shut-In(1)
89	1564.97	113.94	End Shut-In(1)
91	104.92	107.17	Open To Flow (2)
135	116.01	95.84	Shut-In(2)
227	1520.44	110.91	End Shut-In(2)
227	2290.40	111.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	SOCM 5%O 95%M	1.82

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	28.00	286.02
Last Gas Rate	0.50	40.00	366.97
Max. Gas Rate	0.50	42.00	380.46



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.

520 S.Holland Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17899

DST#: 3

Test Start: 2003.07.20 @ 11:34:44

Tool Information

Drill Pipe:	Length: 4808.00 ft	Diameter: 3.80 inches	Volume: 67.44 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 67.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4796.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4777.00	
S.I. Tool	5.00			4782.00	
HMV	5.00			4787.00	
Packer	4.00			4791.00	20.00 Bottom Of Top Packer
Packer	5.00			4796.00	
Stubb	1.00			4797.00	
Recorder	0.00	6741	Inside	4797.00	
Perforations	26.00			4823.00	
Recorder	0.00	13222	Outside	4823.00	
Bullnose	5.00			4828.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.

Schmidt #1

520 S.Holland Ste.207
Wichita Ks.67209

8-29s-18w Kiowa Ks.

Job Ticket: 17899

DST#: 3

ATTN: Kent Roberts

Test Start: 2003.07.20 @ 11:34:44

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:

7000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	SOCM 5%O 95%M	1.824

Total Length: 130.00 ft

Total Volume: 1.824 bbl

Num Fluid Samples: 0

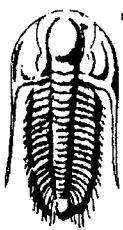
Num Gas Bombs: 1

Serial #: gp-3

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources Inc.

Schmidt #1

520 S.Holland Ste.207
Wichita Ks.67209

8-29s-18w Kiowa Ks.

Job Ticket: 17899

DST#: 3

ATTN: Kent Roberts

Test Start: 2003.07.20 @ 11:34:44

Gas Rates Information

Temperature: 59 deg C

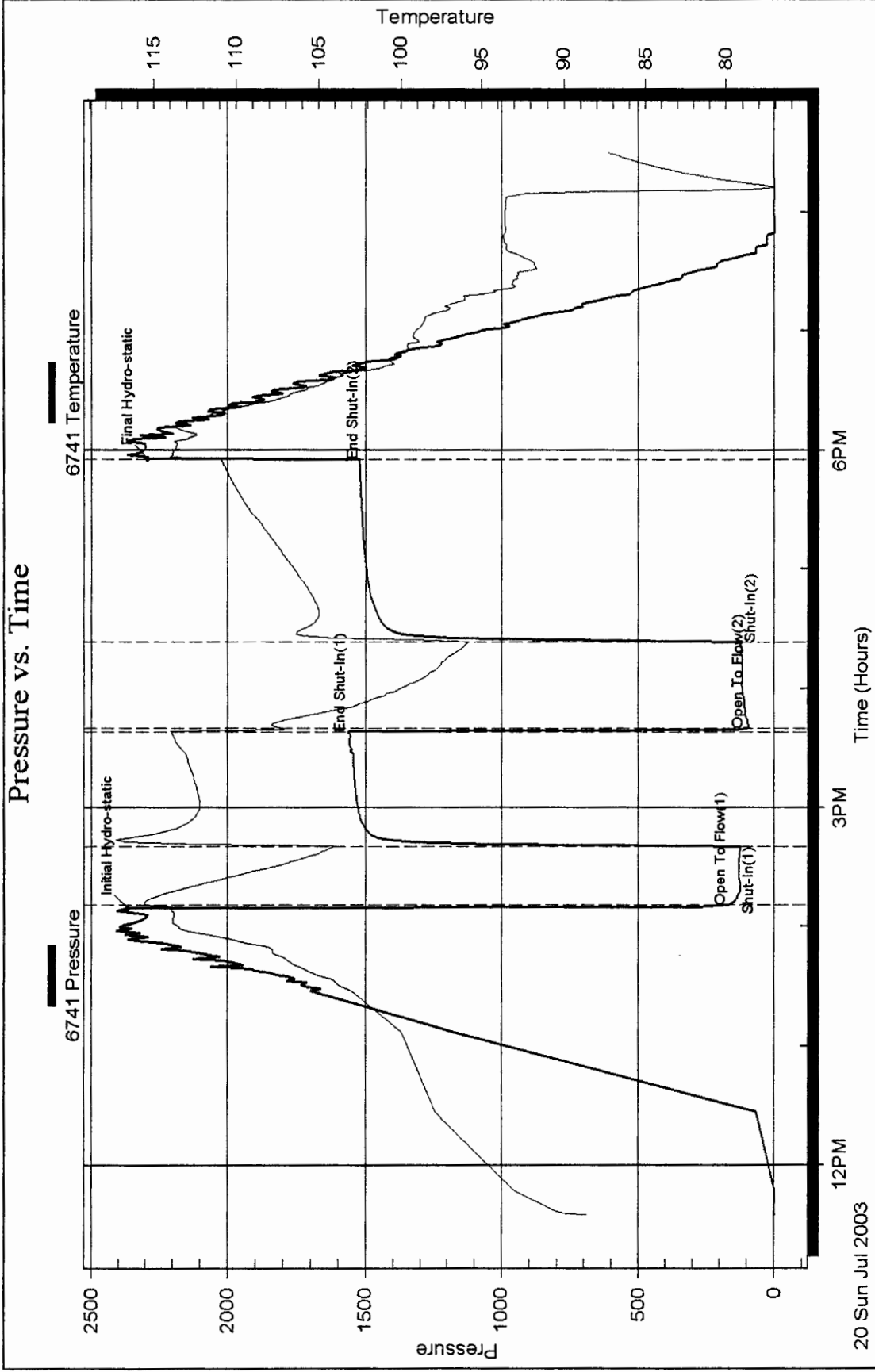
Relative Density: 0.65

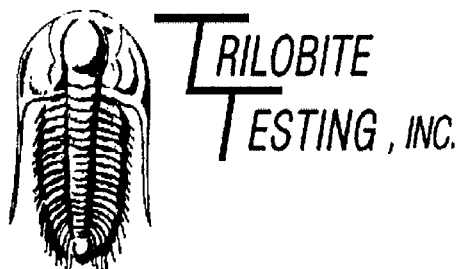
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.50	28.00	286.02
1	20	0.50	40.00	366.97
1	30	0.50	42.00	380.46
2	10	0.50	40.00	366.97
2	20	0.50	42.00	380.46
2	30	0.50	42.00	380.46
2	40	0.50	41.00	373.71
2	45	0.50	40.00	366.97

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

520 S.Holland Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

8-29s-18w Kiowa Ks.

Schmidt #1

Start Date: 2003.07.21 @ 14:39:29

End Date: 2003.07.21 @ 23:11:44

Job Ticket #: 17900 DST #: 4

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

RECEIVED
OCT 23 2003
KCC WICHITA

Roberts Resources Inc.

Schmidt #1

8-29s-18w Kiowa Ks.

DST # 4

Miss.

2003.07.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources Inc.

520 S.Holland Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17900

DST#: 4

Test Start: 2003.07.21 @ 14:39:29

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 16:55:44

Time Test Ended: 23:11:44

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pavoteaux**

Unit No: **23**

Interval: **4941.00 ft (KB) To 4963.00 ft (KB) (TVD)**

Reference Elevations: **2292.00 ft (KB)**

Total Depth: **4963.00 ft (KB) (TVD)**

2281.00 ft (CF)

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

KB to GR/CF: **11.00 ft**

Serial #: 6741

Inside

Press@RunDepth: **261.76 psig @ 4942.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2003.07.21**

End Date: **2003.07.21**

Last Calib.: **2003.07.21**

Start Time: **14:39:30**

End Time: **23:11:44**

Time On Btm: **2003.07.21 @ 16:51:59**

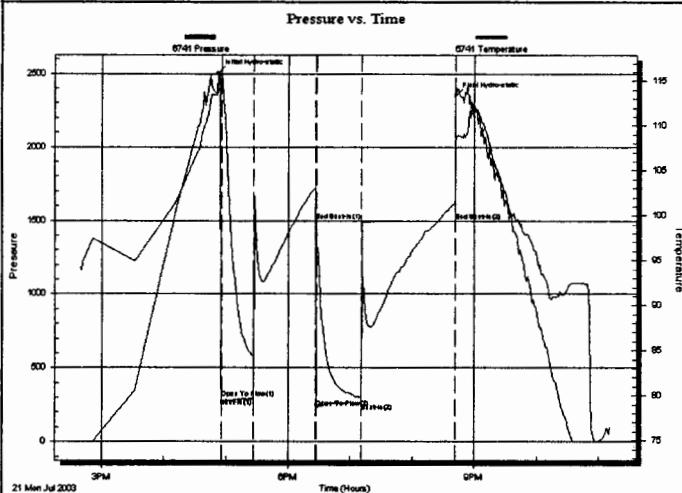
Time Off Btm: **2003.07.21 @ 20:41:44**

TEST COMMENT: IF:Strong blow . GTS in 2.5 mins. (see gas volume report)

ISI:Venting throughout.

FF:Strong blow . (see gas volume report)

FSI:Venting throughout.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2505.39	113.78	Initial Hydro-static
4	296.54	115.91	Open To Flow (1)
34	292.23	84.38	Shut-In(1)
94	1497.94	103.16	End Shut-In(1)
95	230.71	94.56	Open To Flow (2)
139	261.76	79.87	Shut-In(2)
230	1495.49	101.50	End Shut-In(2)
230	2348.28	105.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Drig mud	0.63

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	40.00	1563.93
Last Gas Rate	0.75	84.00	1536.99
Max. Gas Rate	0.75	84.00	1536.99



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.

520 S.Holland Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17900

DST#: 4

Test Start: 2003.07.21 @ 14:39:29

Tool Information

Drill Pipe:	Length: 4931.00 ft	Diameter: 3.80 inches	Volume: 69.17 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 83000.00 lb
		Total Volume:	69.17 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4941.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4922.00	
S.I. Tool	5.00			4927.00	
HMV	5.00			4932.00	
Packer	4.00			4936.00	20.00 Bottom Of Top Packer
Packer	5.00			4941.00	
Stubb	1.00			4942.00	
Recorder	0.00	6741	Inside	4942.00	
Perforations	16.00			4958.00	
Recorder	0.00	13222	Outside	4958.00	
Bullnose	5.00			4963.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.

Schmidt #1

520 S.Holland Ste.207
Wichita Ks.67209

8-29s-18w Kiowa Ks.

Job Ticket: 17900

DST#: 4

ATTN: Kent Roberts

Test Start: 2003.07.21 @ 14:39:29

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:

6000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Drig mud	0.631

Total Length: 45.00 ft

Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: gp-4

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources Inc.

Schmidt #1

520 S.Holland Ste.207
Wichita Ks.67209

8-29s-18w Kiowa Ks.

Job Ticket: 17900

DST#: 4

ATTN: Kent Roberts

Test Start: 2003.07.21 @ 14:39:29

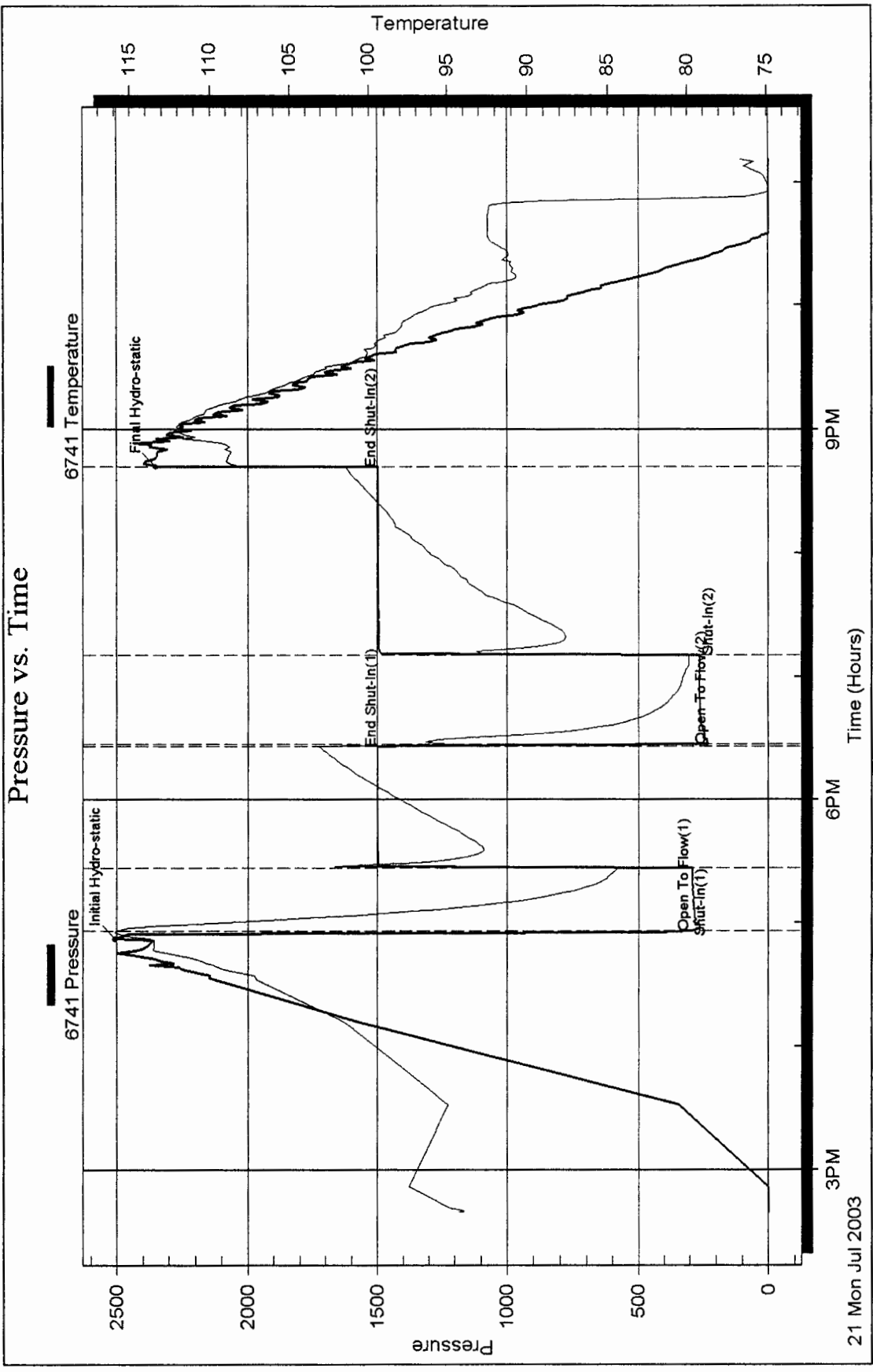
Gas Rates Information

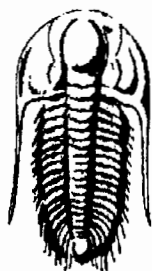
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
1	10	1.00	40.00	1563.93
1	20	0.75	78.00	1443.28
1	30	0.75	80.00	1474.51
2	10	0.75	78.00	1443.28
2	20	0.75	84.00	1536.99
2	30	0.75	84.00	1536.99
2	40	0.75	84.00	1536.99
2	45	0.75	84.00	1536.99

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

520 S.Holland Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

8-29s-18w Kiowa Ks.

Schmidt #1

Start Date: 2003.07.22 @ 07:52:25

End Date: 2003.07.22 @ 15:58:25

Job Ticket #: 17126 DST #: 5

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

RECEIVED
OCT 23 2003
KCC WICHITA

Roberts Resources Inc.

Schmidt #1

8-29s-18w Kiowa Ks.

DST # 5

Miss.

2003.07.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources Inc.

520 S.Holland Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17126

DST#: 5

Test Start: 2003.07.22 @ 07:52:25

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 10:14:55

Time Test Ended: 15:58:25

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4965.00 ft (KB) To 4973.00 ft (KB) (TVD)**

Total Depth: **4973.00 ft (KB) (TVD)**

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

Reference Elevations: **2292.00 ft (KB)**

2281.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 6741 **Inside**

Press@RunDepth: **41.07 psig @ 4966.00 ft (KB)**

Start Date: **2003.07.22**

End Date: **2003.07.22**

Start Time: **07:52:26**

End Time: **15:58:25**

Capacity: **7000.00 psig**

Last Calib.: **2003.07.22**

Time On Btm: **2003.07.22 @ 10:14:40**

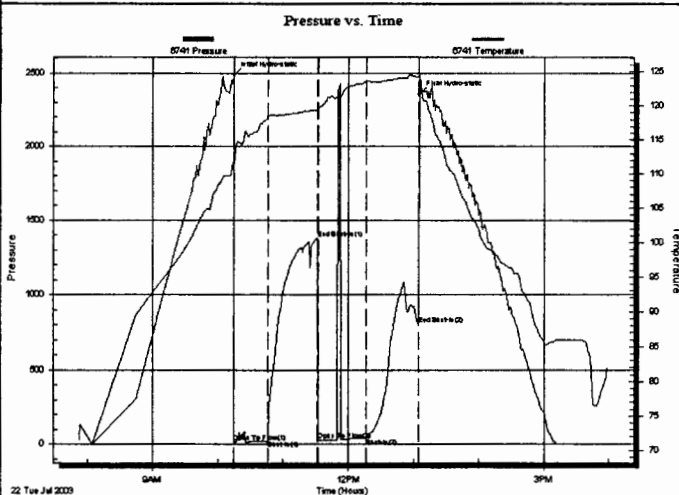
Time Off Btm: **2003.07.22 @ 13:05:10**

TEST COMMENT: IF:Weak surging blow . 1/2 - 2 1/2".

IS:No blow .

FF:Weak surging blow . 4" @ 20 mins. Flushed tool approx. 20

20 mins. in to FFP. Weak blow returned;increasing to 5".



PRESSURE SUMMARY

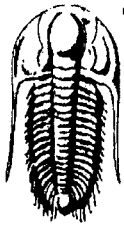
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2487.41	111.76	Initial Hydro-static
1	13.33	111.47	Open To Flow (1)
32	24.66	118.26	Shut-In (1)
78	1379.11	119.37	End Shut-In (1)
79	24.91	119.49	Open To Flow (2)
123	41.07	123.60	Shut-In (2)
171	800.92	124.14	End Shut-In (2)
171	2357.54	124.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	WM with oil specs. 45%w 55%m	0.91
0.00	Rw .09 ohms @88 deg. F	0.00

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 Ste.207
Wichita Ks.67209

ATTN: Kent Roberts

Schmidt #1

8-29s-18w Kiowa Ks.

Job Ticket: 17126

DST#: 5

Test Start: 2003.07.22 @ 07:52:25

Tool Information

Drill Pipe:	Length:	4963.00 ft	Diameter:	3.80 inches	Volume:	69.62 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	81000.00 lb
					Total Volume:	69.62 bbl	Tool Chased	2.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight: Initial	74000.00 lb
Depth to Top Packer:		4965.00 ft					Final	73000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		8.00 ft						
Tool Length:		28.00 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			4946.00		
S.I. Tool	5.00			4951.00		
HMV	5.00			4956.00		
Packer	4.00			4960.00	20.00	Bottom Of Top Packer
Packer	5.00			4965.00		
Stubb	1.00			4966.00		
Recorder	0.00	6741	Inside	4966.00		
Perforations	2.00			4968.00		
Recorder	0.00	13222	Outside	4968.00		
Bullnose	5.00			4973.00	8.00	Bottom Packers & Anchor
Total Tool Length:	28.00					



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.

Schmidt #1

520 S.Holland Ste.207
Wichita Ks.67209

8-29s-18w Kiowa Ks.

Job Ticket: 17126

DST#: 5

ATTN: Kent Roberts

Test Start: 2003.07.22 @ 07:52:25

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:

66000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	WM with oil specs. 45%w 55%m	0.912
0.00	Rw .09 ohms @88 deg. F	0.000

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Charts show pressure decreases on both shut-ins.
Zone has been condemned by fluid recovery.

Serial #: 6741

Inside

Roberts Resources Inc.

8-29s-18w Klow a Ks.

DST Test Number: 5

