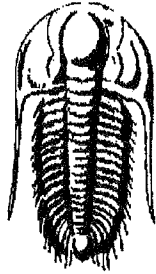


KGS LIBRARY



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212

ATTN: Kent Roberts

28 30S 18W Kiowa KS

PAXTON #1-28

Start Date: 2009.07.22 @ 02:30:00

End Date: 2009.07.22 @ 10:40:09

Job Ticket #: 35093 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Roberts Resources

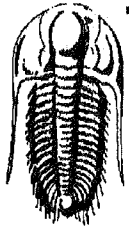
PAXTON #1-28

28 30S 18W Kiowa KS

DST # 1

Lansing/Kansas City:

2009.07.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212
ATTN: Kent Roberts

28 30S 18W Kiowa KS

Job Ticket: 35093 **DST#: 1**
Test Start: 2009.07.22 @ 02:30:00

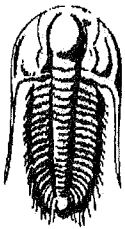
Tool Information

Drill Pipe:	Length: 4557.00 ft	Diameter: 3.80 inches	Volume: 63.92 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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: 75000.00 lb
			<u>Total Volume: 63.92 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4562.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4547.00	
Hydraulic tool	5.00			4552.00	
Packer	5.00			4557.00	20.00 Bottom Of Top Packer
Packer	5.00			4562.00	
Stubb	1.00			4563.00	
Recorder	0.00	8352	Inside	4563.00	
Recorder	0.00	6799	Inside	4563.00	
Perforations	22.00			4585.00	
Bullnose	5.00			4590.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212
ATTN: Kent Roberts

28 30S 18W Kiowa KS
Job Ticket: 35093 **DST#: 1**
Test Start: 2009.07.22 @ 02:30:00

Mud and Cushion Information

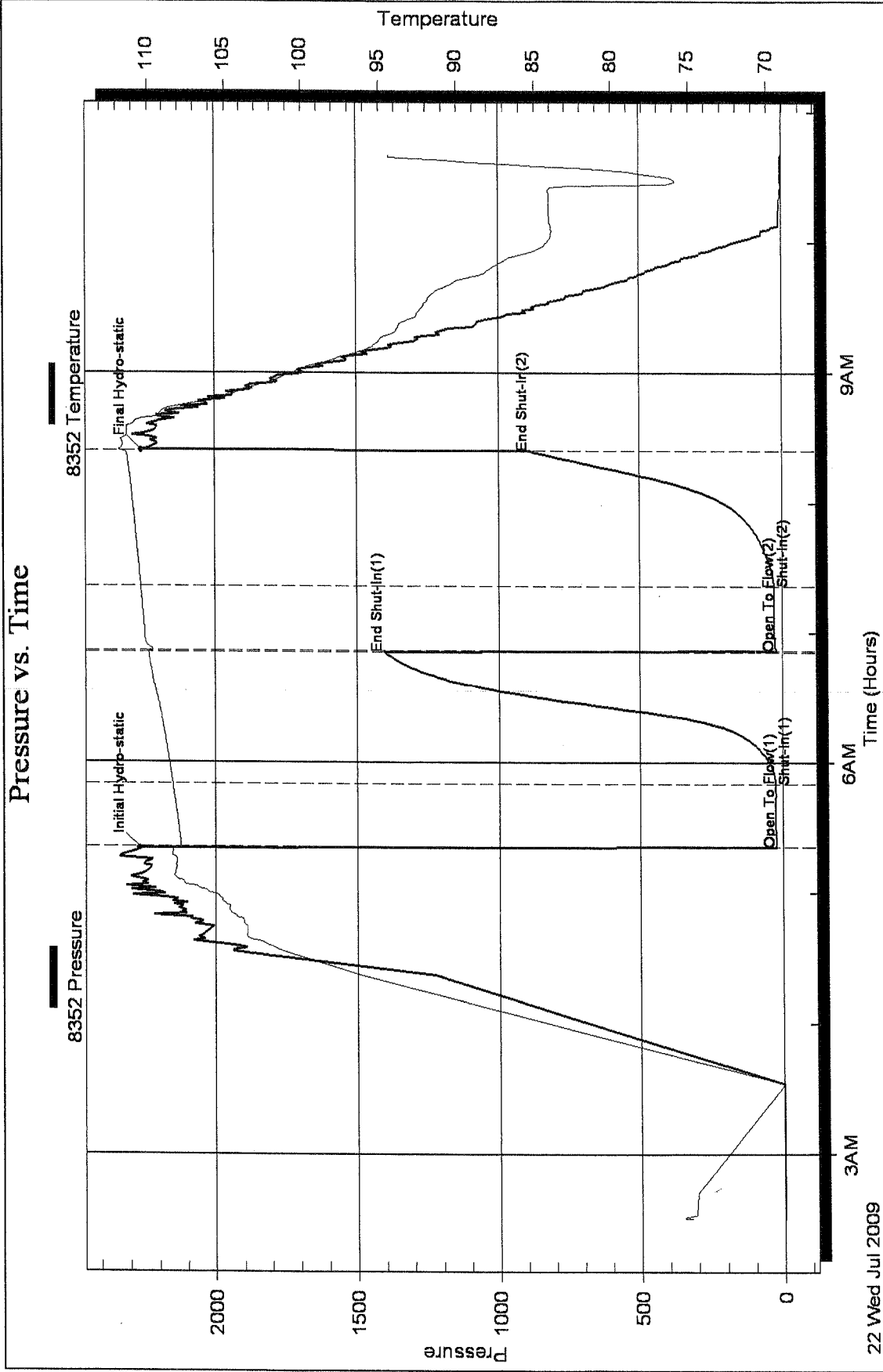
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

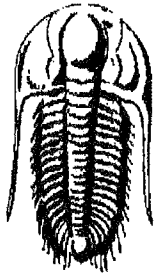
Recovery Table

Length ft	Description	Volume bbl
25.00	SO&WCM 2%o 3%w 95%o	0.351
0.00	40' GIP	0.000

Total Length: 25.00 ft Total Volume: 0.351 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



Vertical text or markings on the left side of the page.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212

ATTN: Kent Roberts

28 30S 18W Kiowa KS

PAXTON #1-28

Start Date: 2009.07.24 @ 00:30:00

End Date: 2009.07.24 @ 10:13:49

Job Ticket #: 35094 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Roberts Resources

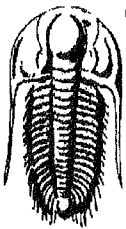
PAXTON #1-28

28 30S 18W Kiowa KS

DST # 2

Mississippian

2009.07.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Roberts Resources
2020 N Tyler Rd.
Suite 100
Wichita, KS 67212
ATTN: Kent Roberts

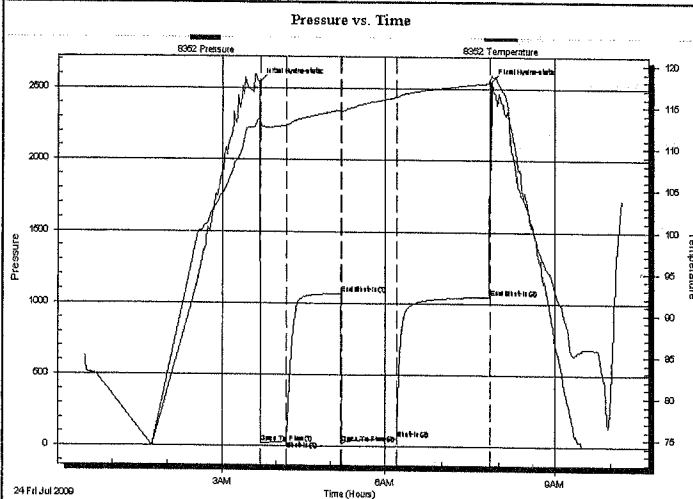
PAXTON #1-28
28 30S 18W Kiowa KS
Job Ticket: 35094 **DST#: 2**
Test Start: 2009.07.24 @ 00:30:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:42:40
Time Test Ended: 10:13:49
Interval: **5052.00 ft (KB) To 5066.00 ft (KB) (TVD)**
Total Depth: 5066.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 43
Reference Elevations: 2183.00 ft (KB)
2172.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8352 Inside
Press@RunDepth: 59.59 psig @ 5053.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2009.07.24 End Date: 2009.07.24 Last Calib.: 2009.07.24
Start Time: 00:30:02 End Time: 10:13:49 Time On Btm: 2009.07.24 @ 03:41:30
Time Off Btm: 2009.07.24 @ 07:51:19

TEST COMMENT: IF: Strong blow, BOB 3.5 minutes.
IS: Bled off, no blow back.
FF: Strong blow, BOB immediately, GTS 20 minutes.
FSI: Bled off, no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2538.36	113.65	Initial Hydro-static
2	24.31	113.06	Open To Flow (1)
30	34.76	112.78	Shut-In(1)
90	1066.73	114.64	End Shut-In(1)
91	22.82	114.50	Open To Flow (2)
151	59.59	116.18	Shut-In(2)
249	1047.50	117.92	End Shut-In(2)
250	2544.89	118.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GCW&OCM 5%g 15%w 30%o 50%r	0.91
0.00	RW=.31ohm@87degF=17000ppmChl	0.00
0.00	rw is questionable due to inability to	0.00
0.00	obtain a clean water sample.	0.00
0.00	Gas In All Fluid Free Pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	15.00	11.00
Last Gas Rate	0.13	22.00	13.62
Max. Gas Rate	0.13	22.00	13.62



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212
ATTN: Kent Roberts

28 30S 18W Kiowa KS

Job Ticket: 35094 **DST#: 2**
Test Start: 2009.07.24 @ 00:30:00

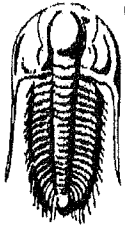
Tool Information

Drill Pipe:	Length: 5035.00 ft	Diameter: 3.80 inches	Volume: 70.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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: 100000.0 lb
			<u>Total Volume: 70.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	5052.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			5037.00	
Hydraulic tool	5.00			5042.00	
Packer	5.00			5047.00	20.00 Bottom Of Top Packer
Packer	5.00			5052.00	
Stubb	1.00			5053.00	
Recorder	0.00	8352	Inside	5053.00	
Recorder	0.00	6799	Inside	5053.00	
Perforations	8.00			5061.00	
Bullnose	5.00			5066.00	14.00 Bottom Packers & Anchor
Total Tool Length:	34.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212
ATTN: Kent Roberts

28 30S 18W Kiowa KS
Job Ticket: 35094 **DST#: 2**
Test Start: 2009.07.24 @ 00:30:00

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: 17000 ppm	
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

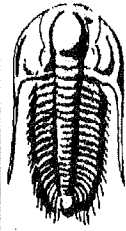
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	GCW&OCM 5%g 15%w 30%o 50%m	0.912
0.00	RW=.31ohm@87degF=17000ppmChl	0.000
0.00	rw is questionable due to inability to	0.000
0.00	obtain a clean water sample.	0.000
0.00	Gas In All Fluid Free Pipe	0.000

Total Length: 65.00 ft Total Volume: 0.912 bbl

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.

28 30S 18W Kiowa KS

Suite 100

Wichita, KS 67212

Job Ticket: 35094

DST#: 2

ATTN: Kent Roberts

Test Start: 2009.07.24 @ 00:30:00

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)
2	20	0.13	15.00	11.00
2	20	0.13	15.00	11.00
2	25	0.13	16.00	11.38
2	30	0.13	18.00	12.13
2	35	0.13	19.00	12.50
2	40	0.13	21.00	13.25
2	45	0.13	21.00	13.25
2	50	0.13	22.00	13.62
2	55	0.13	22.00	13.62

Serial #: 8352

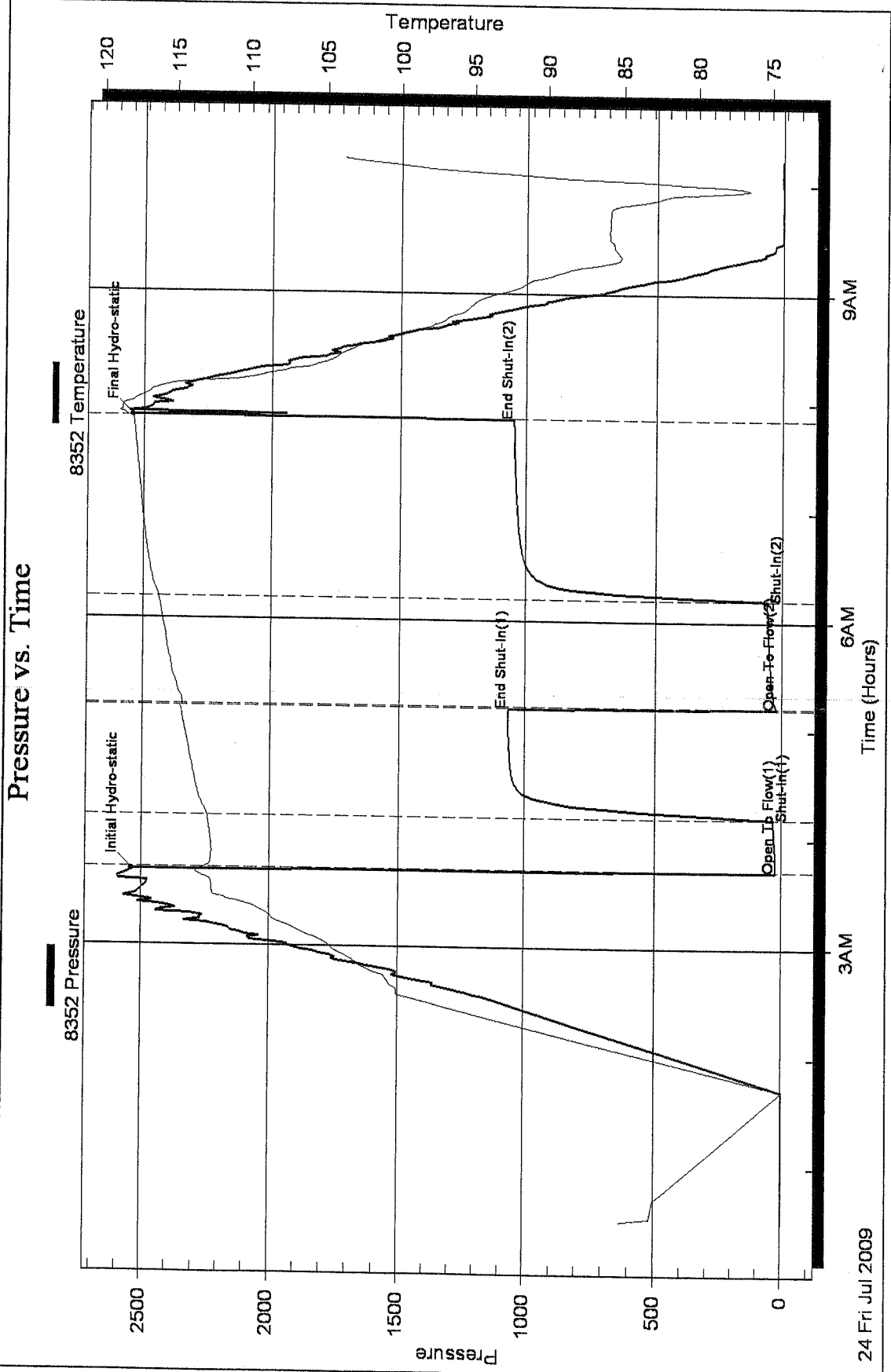
Inside

Roberts Resources

28 30S 18W Klow a KS

DST Test Number: 2

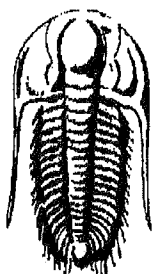
Pressure vs. Time



24 Fri Jul 2009

Trilobite Testing, Inc

Ref. No: 35094



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212

ATTN: Kent Roberts

28 30S 18W Kiowa KS

PAXTON #1-28

Start Date: 2009.07.24 @ 17:25:00

End Date: 2009.07.25 @ 02:34:19

Job Ticket #: 35095 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Roberts Resources

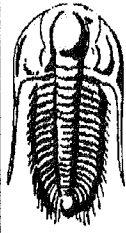
PAXTON #1-28

28 30S 18W Kiowa KS

DST # 3

Mississippian

2009.07.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212
ATTN: Kent Roberts

28 30S 18W Kiowa KS

Job Ticket: 35095

DST#: 3

Test Start: 2009.07.24 @ 17:25:00

Tool Information

Drill Pipe:	Length: 5035.00 ft	Diameter: 3.80 inches	Volume: 70.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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: 75000.00 lb
			<u>Total Volume: 70.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	5050.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			5035.00	
Hydraulic tool	5.00			5040.00	
Packer	5.00			5045.00	20.00 Bottom Of Top Packer
Packer	5.00			5050.00	
Stubb	1.00			5051.00	
Recorder	0.00	8352	Inside	5051.00	
Recorder	0.00	6799	Inside	5051.00	
Perforations	22.00			5073.00	
Bullnose	5.00			5078.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212
ATTN: Kent Roberts

28 30S 18W Kiowa KS

Job Ticket: 35095

DST#: 3

Test Start: 2009.07.24 @ 17:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 9.57 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	GC SW&OCM 10%g 5%w 7%o 78%m	1.333
0.00	Gas in all fluid free pipe.	0.000

Total Length: 95.00 ft Total Volume: 1.333 bbl

Num Fluid Samples: 0

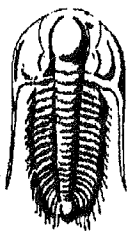
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.

28 30S 18W Kiowa KS

Suite 100

Job Ticket: 35095

DST#: 3

Wichita, KS 67212

ATTN: Kent Roberts

Test Start: 2009.07.24 @ 17:25:00

Gas Rates Information

Temperature: 59 deg C

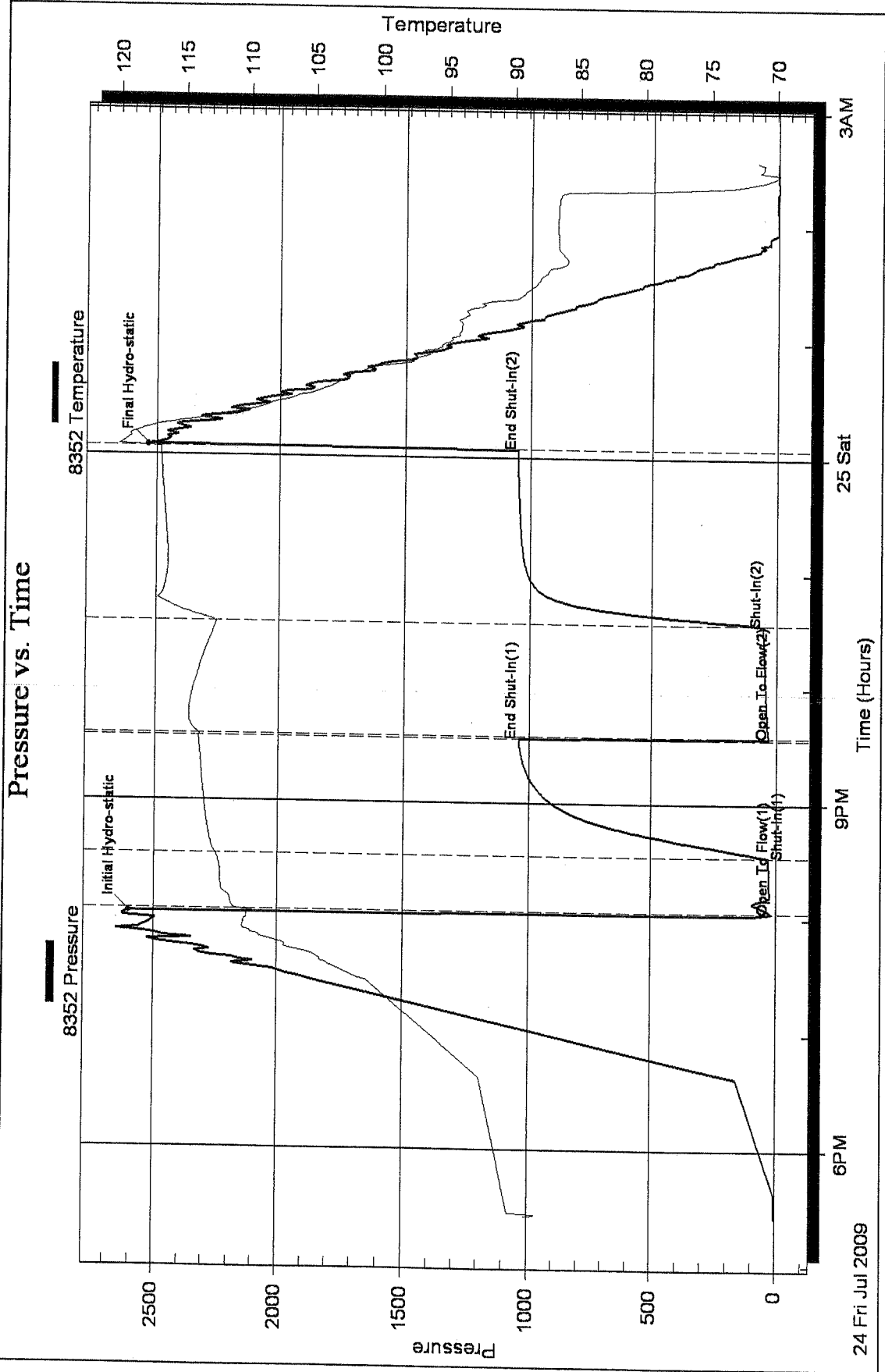
Relative Density: 0.65

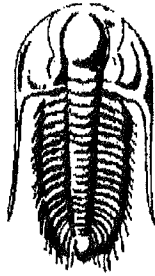
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	50	0.13	9.00	8.76
2	50	0.13	9.00	8.76
2	55	0.13	10.00	9.13

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212

ATTN: Kent Roberts

28 30S 18W Kiowa KS

PAXTON #1-28

Start Date: 2009.07.25 @ 13:20:00

End Date: 2009.07.25 @ 22:09:40

Job Ticket #: 35096 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Roberts Resources

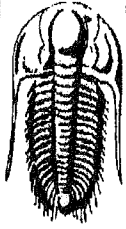
PAXTON #1-28

28 30S 18W Kiowa KS

DST # 4

Mississippian

2009.07.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources
 2020 N Tyler Rd.
 Suite 100
 Wichita, KS 67212
 ATTN: Kent Roberts

PAXTON #1-28

28 30S 18W Kiowa KS

Job Ticket: 35096

DST#: 4

Test Start: 2009.07.25 @ 13:20:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:45:10

Time Test Ended: 22:09:40

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **5080.00 ft (KB) To 5110.00 ft (KB) (TVD)**

Total Depth: 5110.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2183.00 ft (KB)

2172.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8352

Inside

Press@RunDepth: 28.47 psig @ 5081.00 ft (KB)

Start Date: 2009.07.25

End Date:

2009.07.25

Start Time: 13:20:02

End Time:

22:09:40

Capacity: 7000.00 psig

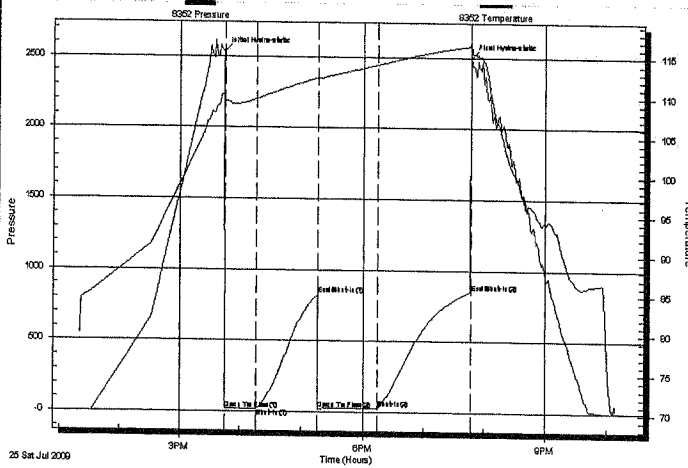
Last Calib.: 2009.07.25

Time On Btm: 2009.07.25 @ 15:44:00

Time Off Btm: 2009.07.25 @ 19:47:09

TEST COMMENT: IF: Weak blow, built to 8" in bucket.
 IS: Bled off, no blow back.
 FF: Weak blow, built to BOB in 58 minutes.
 FS: Bled off, no blow back.

Pressure vs. Time



PRESSURE SUMMARY

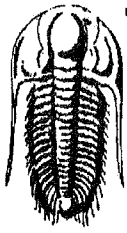
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2534.24	110.24	Initial Hydro-static
2	18.00	109.63	Open To Flow (1)
32	20.81	109.75	Shut-In(1)
92	826.18	112.41	End Shut-In(1)
92	19.58	112.31	Open To Flow(2)
151	28.47	114.10	Shut-In(2)
243	849.18	116.50	End Shut-In(2)
244	2495.66	117.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGC OspeckedM 5%g 2%o 97% m	0.42
0.00	375" Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212
ATTN: Kent Roberts

28 30S 18W Kiowa KS

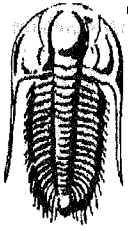
Job Ticket: 35096 **DST#: 4**
Test Start: 2009.07.25 @ 13:20:00

Tool Information

Drill Pipe:	Length: 5069.00 ft	Diameter: 3.80 inches	Volume: 71.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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: 105000.0 lb
			<u>Total Volume: 71.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	5080.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			5065.00	
Hydraulic tool	5.00			5070.00	
Packer	5.00			5075.00	20.00 Bottom Of Top Packer
Packer	5.00			5080.00	
Stubb	1.00			5081.00	
Recorder	0.00	8352	Inside	5081.00	
Recorder	0.00	6799	Inside	5081.00	
Perforations	24.00			5105.00	
Bullnose	5.00			5110.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

PAXTON #1-28

2020 N Tyler Rd.
Suite 100
Wichita, KS 67212
ATTN: Kent Roberts

28 30S 18W Kiowa KS
Job Ticket: 35096 **DST#: 4**
Test Start: 2009.07.25 @ 13:20:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: inches			

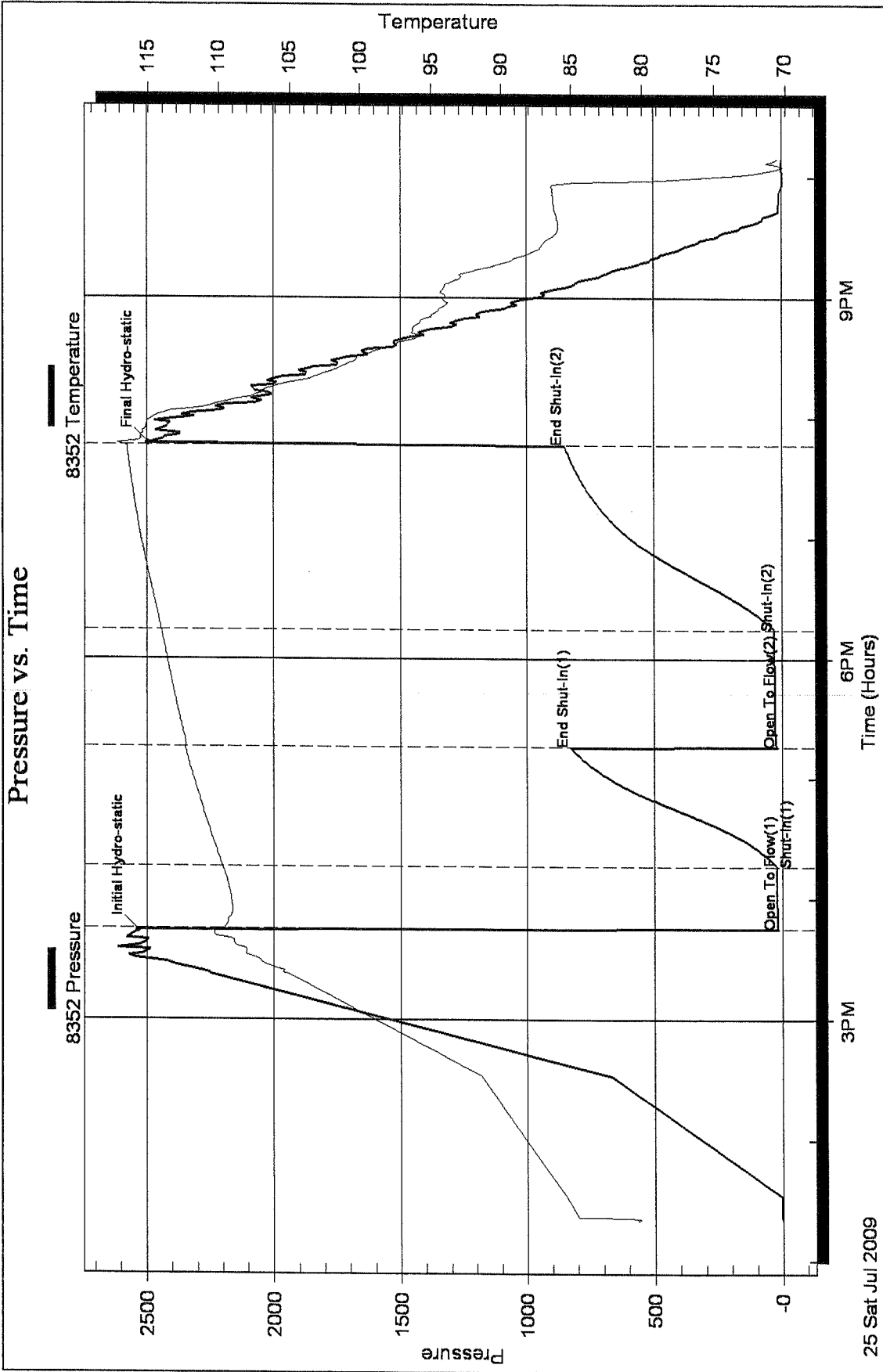
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SGC OspeckedM5%g 2%o 97%m	0.421
0.00	375" Gas In Pipe	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



206090

0