



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wicitha, KS 67202

ATTN: Chuck Schmaltz

Demuth #9

22-5s-20w Phillips,KS

Start Date: 2014.05.26 @ 20:50:00

End Date: 2014.05.27 @ 01:24:50

Job Ticket #: 58894 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.30 @ 17:05:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58894

DST#: 1

ATTN: Chuck Schmaltz

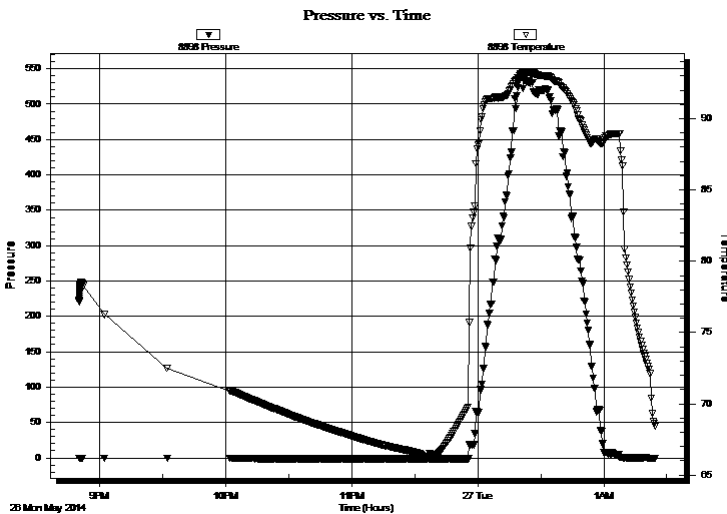
Test Start: 2014.05.26 @ 20:50:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended: 01:24:50
 Interval: **3234.00 ft (KB) To 3317.00 ft (KB) (TVD)**
 Total Depth: 3317.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Phillip Gage
 Unit No: 49
 Reference Elevations: 2196.00 ft (KB)
 2188.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8898 Outside
 Press@RunDepth: psig @ 3235.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.26 End Date: 2014.05.27 Last Calib.: 2014.05.27
 Start Time: 20:50:01 End Time: 01:24:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Hit a bridge
 IS-
 FF-
 FS-



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58894

DST#: 1

ATTN: Chuck Schmalz

Test Start: 2014.05.26 @ 20:50:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 01:24:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 49

Interval: **3234.00 ft (KB) To 3317.00 ft (KB) (TVD)**

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3317.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 3235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.26

End Date: 2014.05.27

Last Calib.: 2014.05.27

Start Time: 20:50:01

End Time: 01:24:50

Time On Btm:

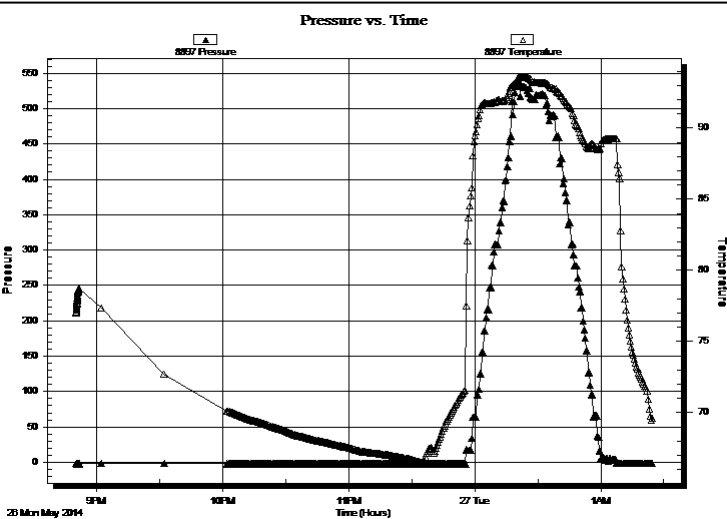
Time Off Btm:

TEST COMMENT: IF- Hit a bridge

IS-

FF-

FS-



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58894

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2014.05.26 @ 20:50:00

Tool Information

Drill Pipe:	Length: 3193.00 ft	Diameter: 3.80 inches	Volume: 44.79 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 44.94 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3234.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	106.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3212.00	
Shut In Tool	5.00			3217.00	
Hydraulic tool	5.00			3222.00	
Safety Joint	2.00			3224.00	
Packer	5.00			3229.00	23.00 Bottom Of Top Packer
Packer	5.00			3234.00	
Stubb	1.00			3235.00	
Recorder	0.00	8897	Inside	3235.00	
Recorder	0.00	8898	Outside	3235.00	
Perforations	14.00			3249.00	
Change Over Sub	1.00			3250.00	
Drill Pipe	63.00			3313.00	
Change Over Sub	1.00			3314.00	
Bullnose	3.00			3317.00	83.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58894

DST#: 1

ATTN: Chuck Schmaltz

Test Start: 2014.05.26 @ 20:50:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

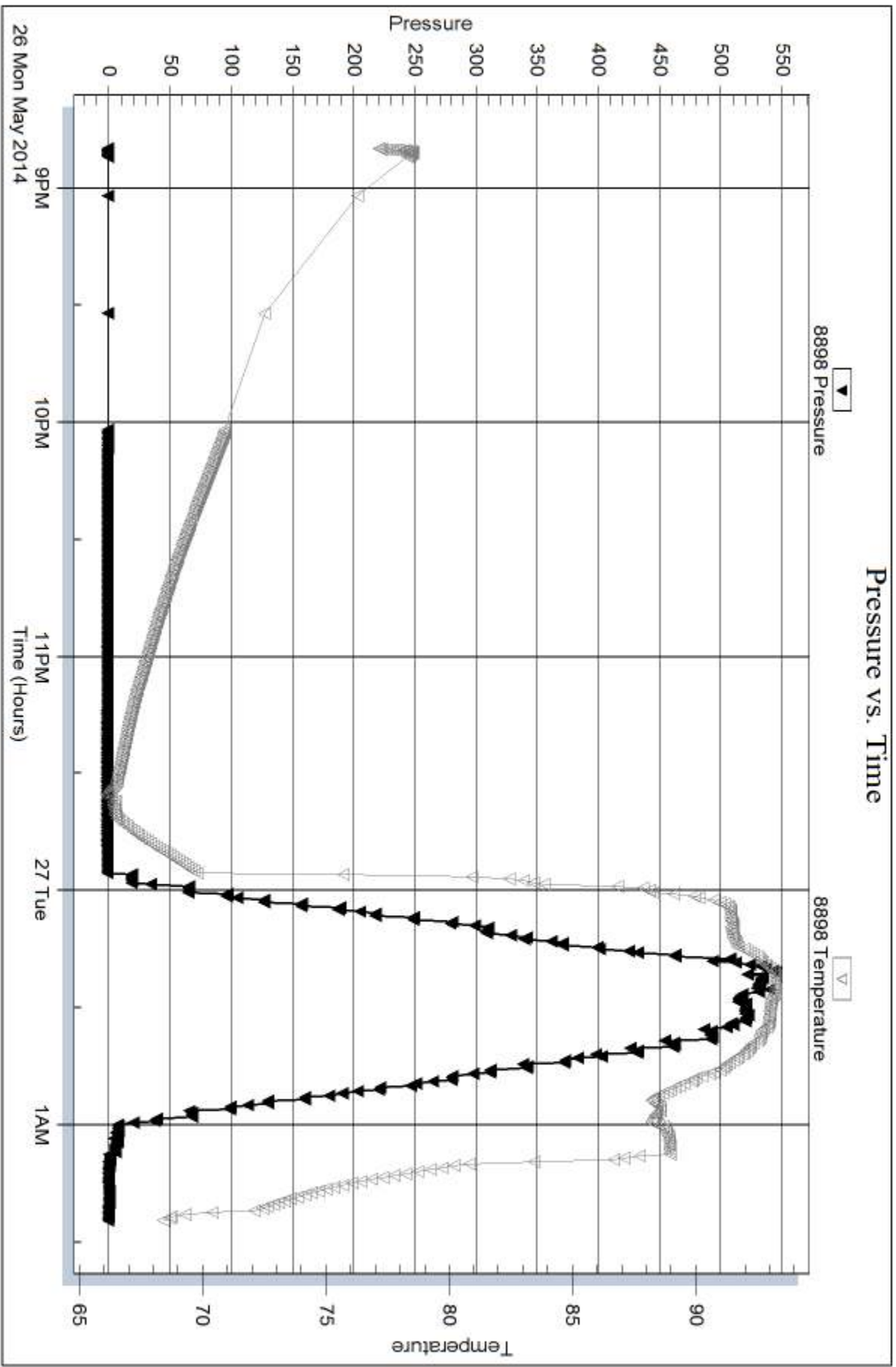
Recovery Comments:

Serial #: 8898

Outside Gore Oil Company

Denumth #9

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58894

Printed: 2014.05.30 @ 17:05:57

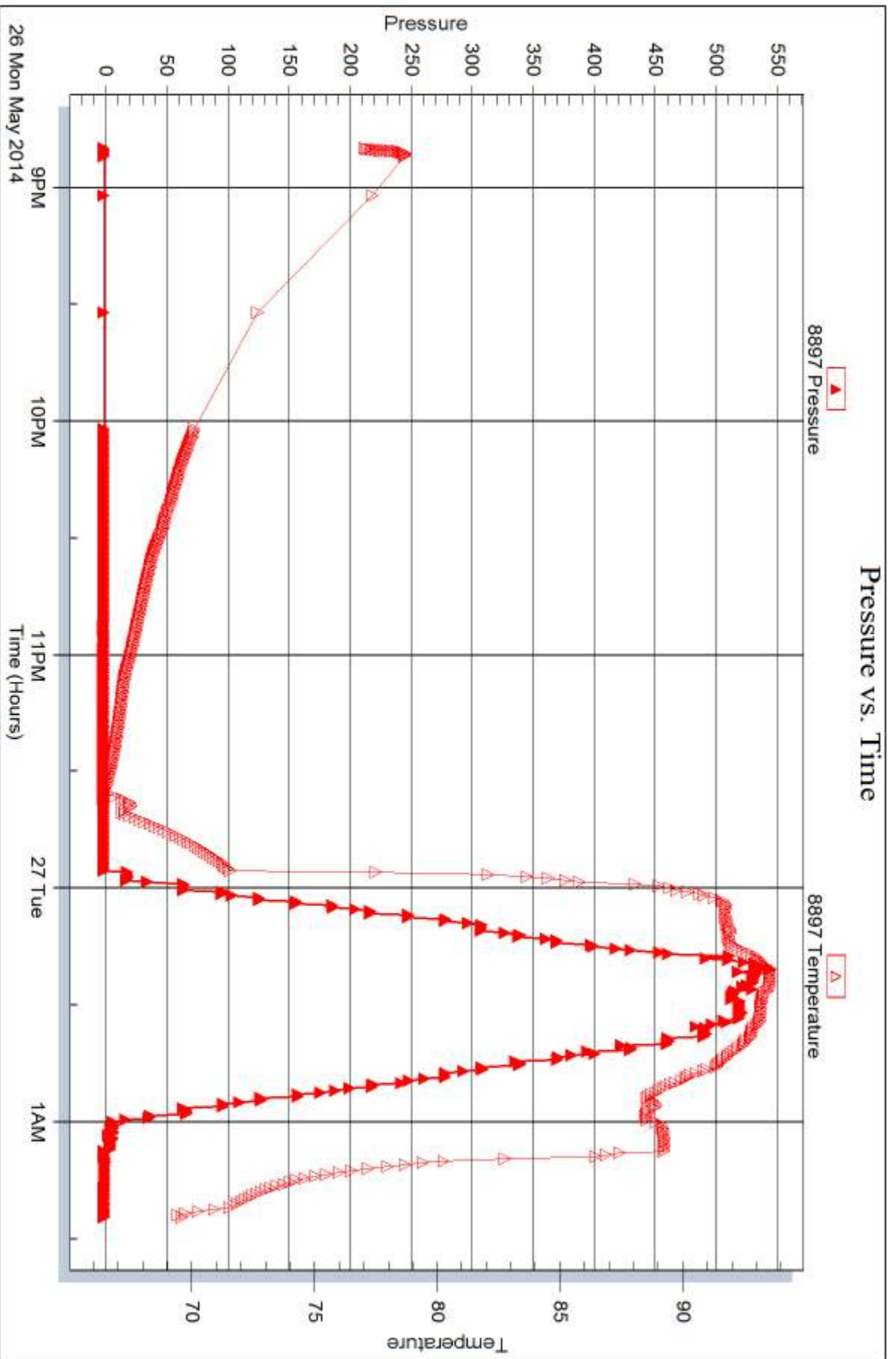
Serial #: 8897

Inside

Gore Oil Company

Demuth #9

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58894

Printed: 2014.05.30 @ 17:05:57



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wicitha, KS 67202

ATTN: Chuck Schmaltz

Demuth #9

22-5s-20w Phillips,KS

Start Date: 2014.05.27 @ 01:38:00

End Date: 2014.05.27 @ 13:19:40

Job Ticket #: 58895 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.30 @ 17:03:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58895

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2014.05.27 @ 01:38:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:49:09

Time Test Ended: 13:19:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 49

Interval: 3234.00 ft (KB) To 3317.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3317.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 25.08 psig @ 3235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.27

End Date:

2014.05.27

Last Calib.:

2014.05.27

Start Time: 01:38:01

End Time:

13:19:40

Time On Btm:

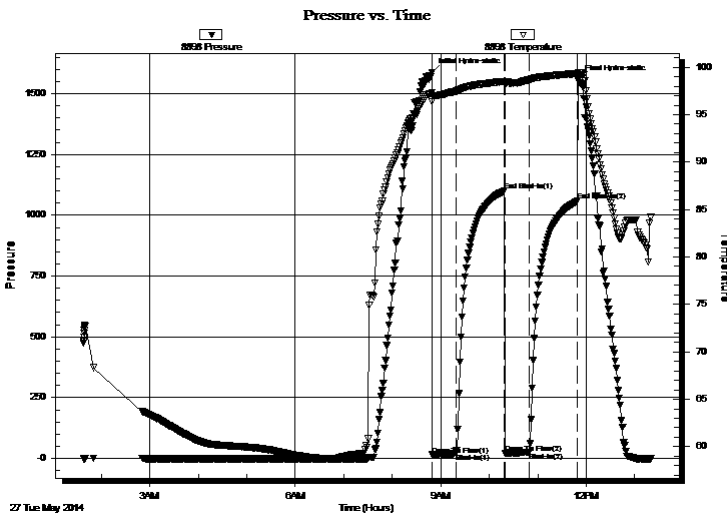
2014.05.27 @ 08:49:00

Time Off Btm:

2014.05.27 @ 11:50:00

TEST COMMENT: 30-IF-Built to 1 1/8"
60-ISI-No Return
30-FF-No Blow
60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.10	97.29	Initial Hydro-static
1	15.42	96.37	Open To Flow (1)
30	20.13	97.46	Shut-In(1)
90	1100.47	98.51	End Shut-In(1)
91	21.31	98.18	Open To Flow (2)
121	25.08	98.67	Shut-In(2)
181	1058.69	99.34	End Shut-In(2)
181	1558.84	99.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	M, w ith oil spots, 100%m	0.35

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58895

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2014.05.27 @ 01:38:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:49:09

Time Test Ended: 13:19:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 49

Interval: 3234.00 ft (KB) To 3317.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3317.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.27 End Date: 2014.05.27

Last Calib.: 2014.05.27

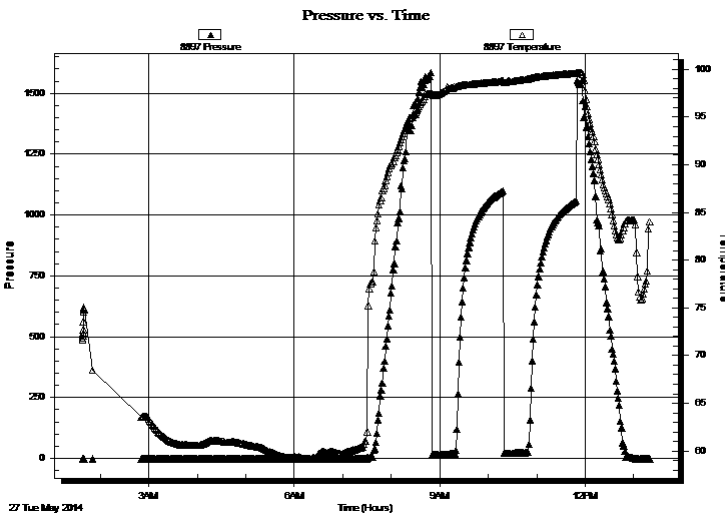
Start Time: 01:38:01 End Time: 13:19:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Built to 1 1/8"
60-ISI-No Return
30-FF-No Blow
60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
25.00	M, w ith oil spots, 100% m	0.35

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58895

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2014.05.27 @ 01:38:00

Tool Information

Drill Pipe:	Length: 3222.00 ft	Diameter: 3.80 inches	Volume: 45.20 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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:	65000.00 lb
			<u>Total Volume: 45.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3234.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	83.00 ft				
Tool Length:	106.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3212.00	
Shut In Tool	5.00			3217.00	
Hydraulic tool	5.00			3222.00	
Safety Joint	2.00			3224.00	
Packer	5.00			3229.00	23.00 Bottom Of Top Packer
Packer	5.00			3234.00	
Stubb	1.00			3235.00	
Recorder	0.00	8897	Inside	3235.00	
Recorder	0.00	8898	Outside	3235.00	
Perforations	14.00			3249.00	
Change Over Sub	1.00			3250.00	
Drill Pipe	63.00			3313.00	
Change Over Sub	1.00			3314.00	
Bullnose	3.00			3317.00	83.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58895

DST#: 2

ATTN: Chuck Schmaltz

Test Start: 2014.05.27 @ 01:38:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	M, w ith oil spots, 100%m	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

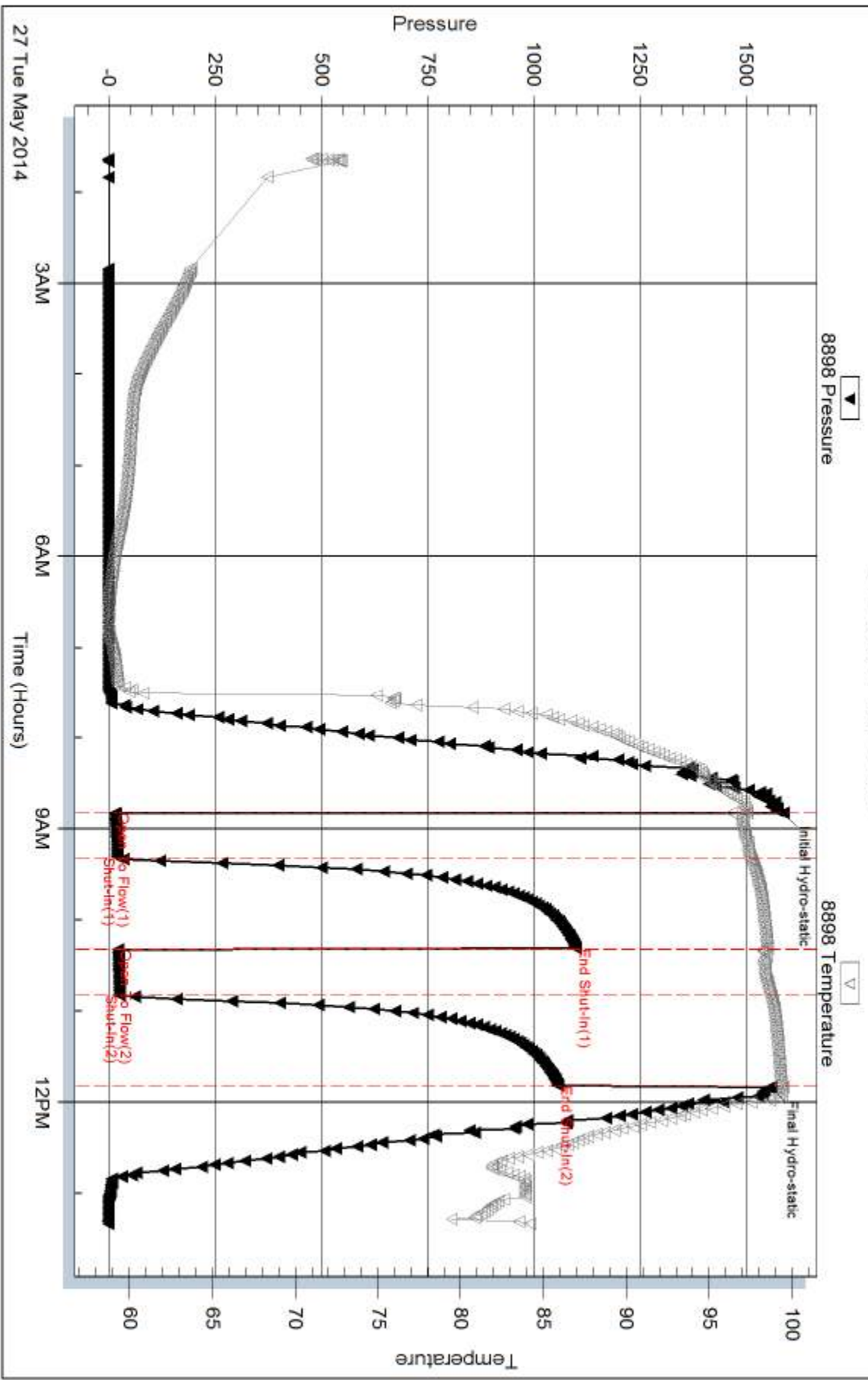
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 8897

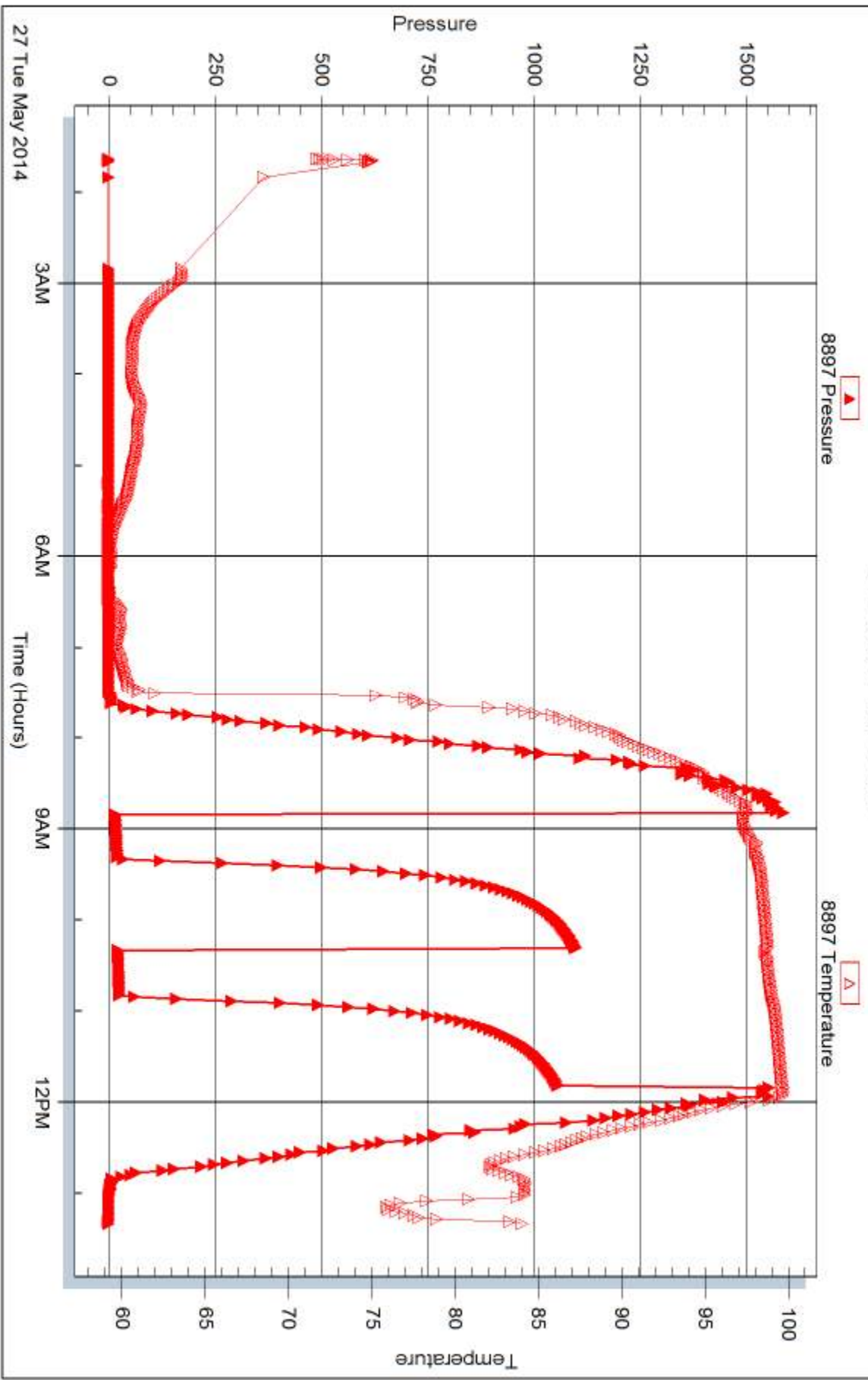
Inside

Gore Oil Company

Demuth #9

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 58895

Printed: 2014.05.30 @ 17:03:55



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wichita, KS 67202

ATTN: Chuck Schmaltz

Demuth #9

22-5s-20w Phillips,KS

Start Date: 2014.05.27 @ 20:52:00

End Date: 2014.05.27 @ 23:59:10

Job Ticket #: 58896 DST #: 3

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

Printed: 2014.05.30 @ 16:59:49



DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58896

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2014.05.27 @ 20:52:00

GENERAL INFORMATION:

Formation: **LKC "A-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 23:59:10

Interval: **3314.00 ft (KB) To 3414.00 ft (KB) (TVD)**

Total Depth: 3413.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 49

Reference Elevations: 2196.00 ft (KB)

2188.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8898**

Outside

Press@RunDepth: psig @ 3315.00 ft (KB)

Start Date: 2014.05.27

End Date:

2014.05.27

Start Time: 20:52:01

End Time:

23:59:10

Capacity: 8000.00 psig

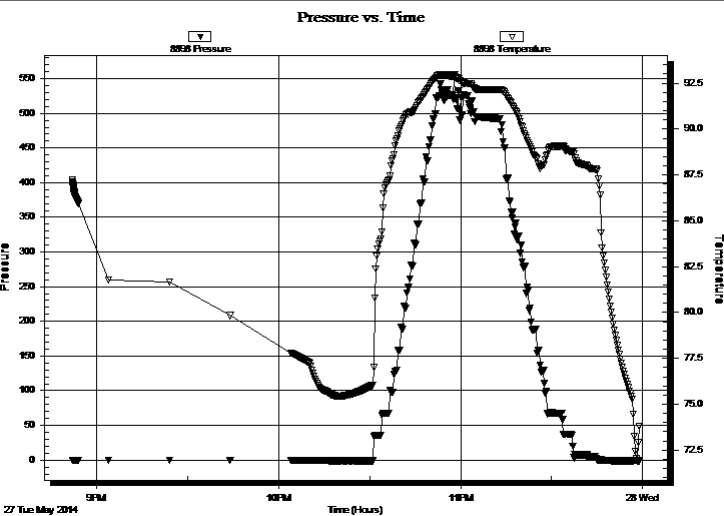
Last Calib.:

2014.05.28

Time On Btm:

Time Off Btm:

TEST COMMENT: Mis Run, hit bridge at 1200', w ent back to bottom w ith bit.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58896

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2014.05.27 @ 20:52:00

Tool Information

Drill Pipe:	Length: 3270.00 ft	Diameter: 3.80 inches	Volume: 45.87 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 46.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3314.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	123.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3292.00	
Shut In Tool	5.00			3297.00	
Hydraulic tool	5.00			3302.00	
Safety Joint	2.00			3304.00	
Packer	5.00			3309.00	23.00 Bottom Of Top Packer
Packer	5.00			3314.00	
Stubb	1.00			3315.00	
Recorder	0.00	8897	Inside	3315.00	
Recorder	0.00	8898	Outside	3315.00	
Perforations	31.00			3346.00	
Change Over Sub	1.00			3347.00	
Drill Pipe	63.00			3410.00	
Change Over Sub	1.00			3411.00	
Bullnose	3.00			3414.00	100.00 Bottom Packers & Anchor

Total Tool Length: 123.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58896

DST#: 3

ATTN: Chuck Schmaltz

Test Start: 2014.05.27 @ 20:52:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

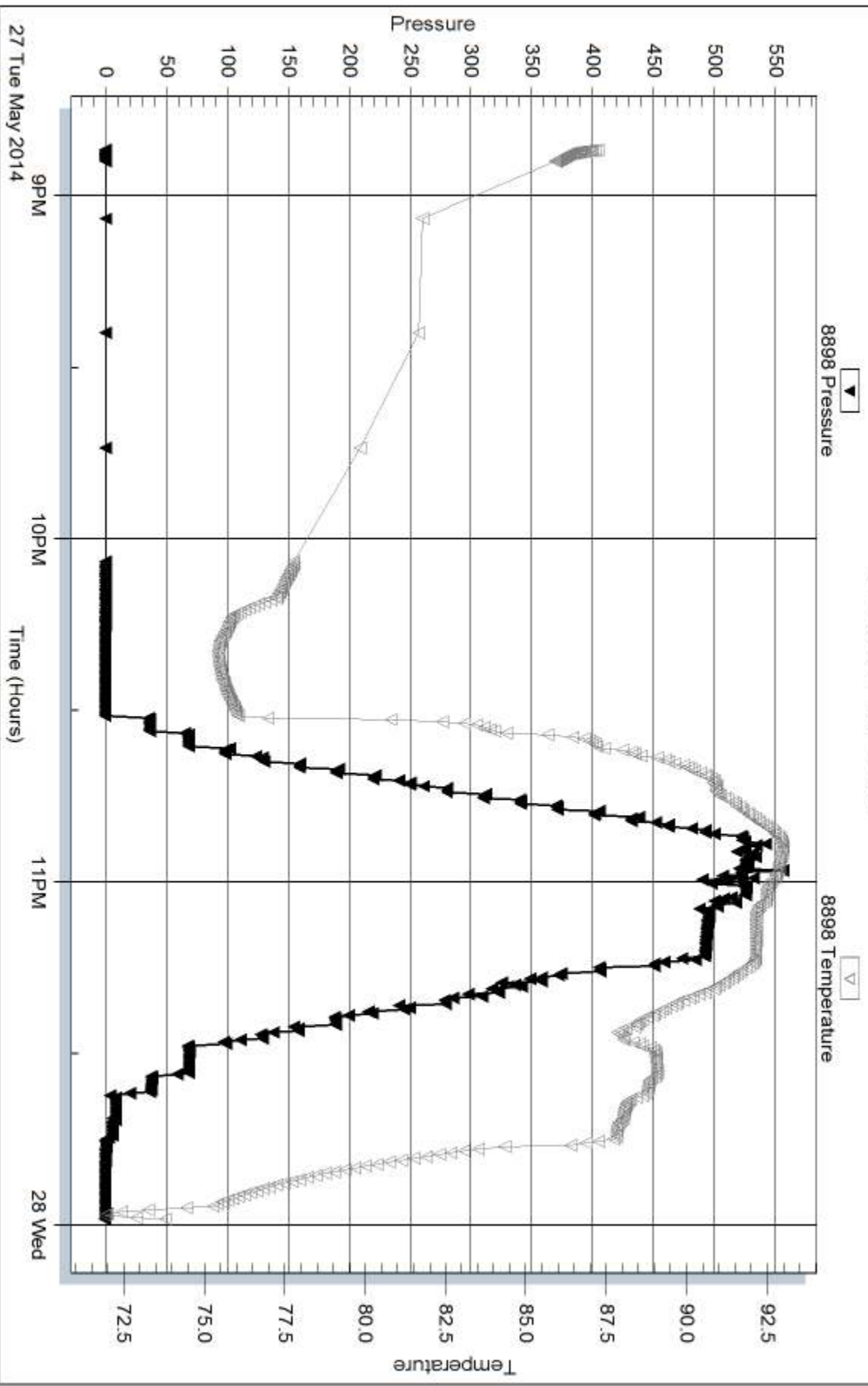
Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



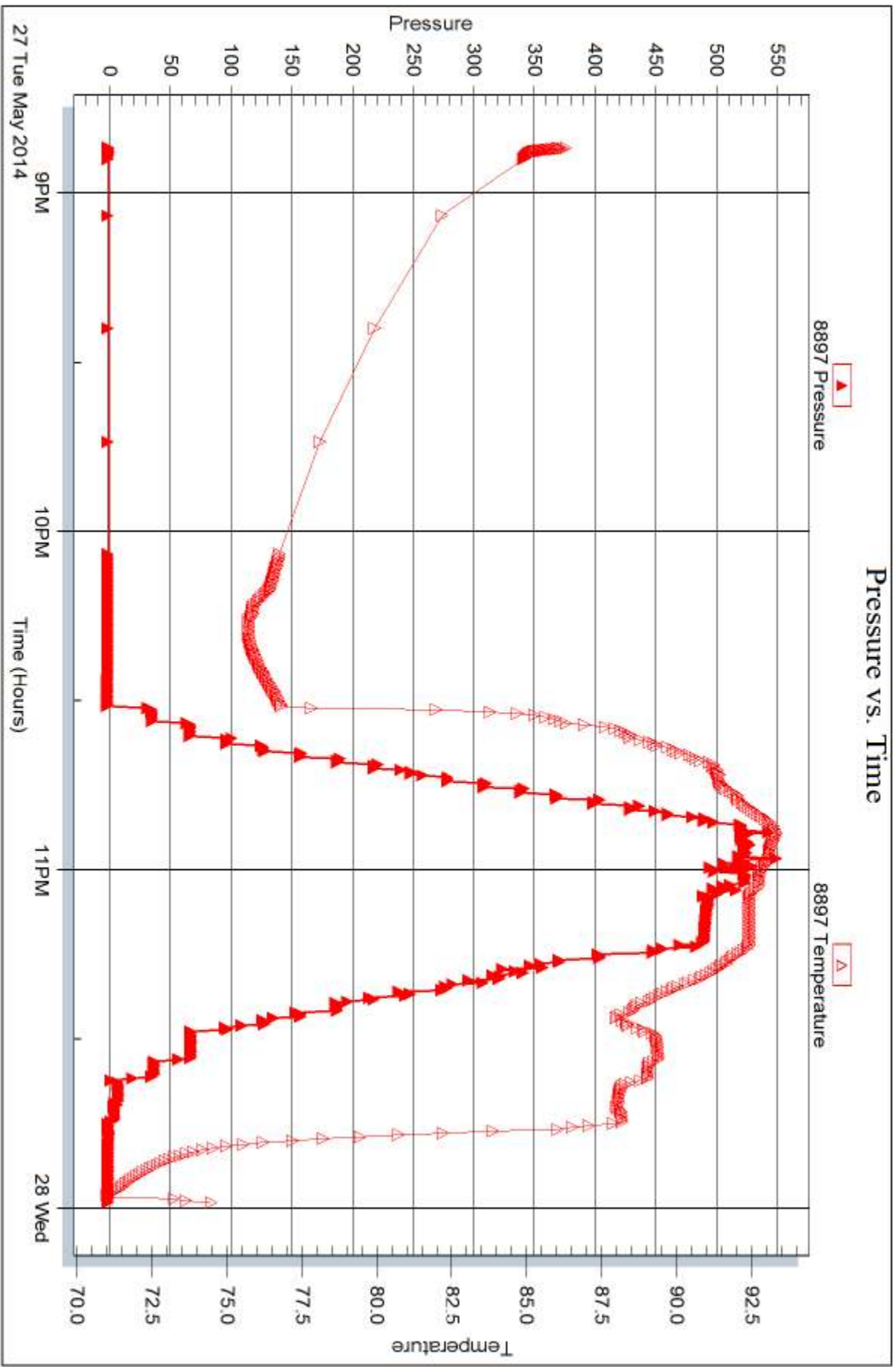
Serial #: 8897

Inside

Gore Oil Company

Demuth #9

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58896

Printed: 2014.05.30 @ 16:59:50



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wicitha, KS 67202

ATTN: Chuck Schmaltz

Demuth #9

22-5s-20w Phillips,KS

Start Date: 2014.05.28 @ 00:18:00

End Date: 2014.05.28 @ 13:44:30

Job Ticket #: 58897 DST #: 4

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

Printed: 2014.05.30 @ 16:59:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58897

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2014.05.28 @ 00:18:00

GENERAL INFORMATION:

Formation: **LCK "A-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:44:20

Time Test Ended: 13:44:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 49

Interval: 3314.00 ft (KB) To 3414.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3414.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8898

Outside

Press@RunDepth: 170.34 psig @ 3315.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.28

End Date:

2014.05.28

Last Calib.:

2014.05.28

Start Time: 00:18:01

End Time:

13:44:30

Time On Btm:

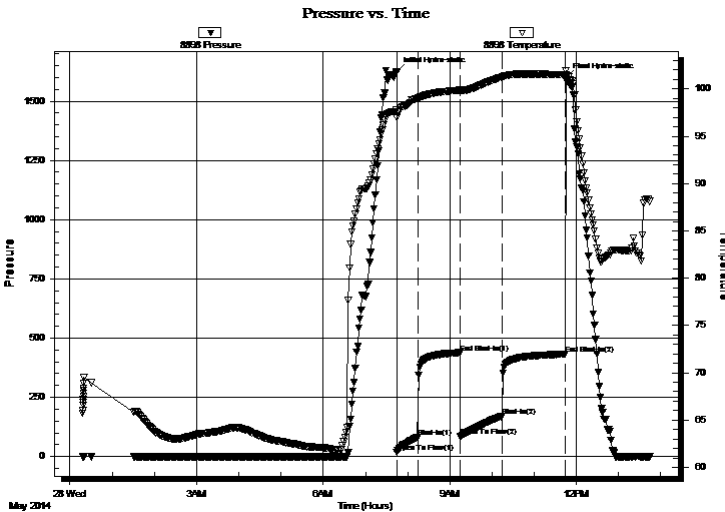
2014.05.28 @ 07:44:09

Time Off Btm:

2014.05.28 @ 11:44:49

TEST COMMENT: 30-IF-BOB in 21 mins
60-ISI-No Return
60-FF-BOB in 30 mins
90-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1626.05	97.79	Initial Hydro-static
1	18.11	96.93	Open To Flow (1)
31	82.69	98.98	Shut-In(1)
91	438.30	99.87	End Shut-In(1)
91	85.66	99.68	Open To Flow (2)
151	170.34	101.26	Shut-In(2)
241	432.47	101.50	End Shut-In(2)
241	1599.30	101.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCW, 20%w, 80%w, w ith oil spots	1.49
63.00	HWCM, 50%w, 50%w, w ith oil spots	0.88
156.00	SWCM, 10%w, 90%w, w ith oil spots	2.19
5.00	O, 100%o	0.07

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58897

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2014.05.28 @ 00:18:00

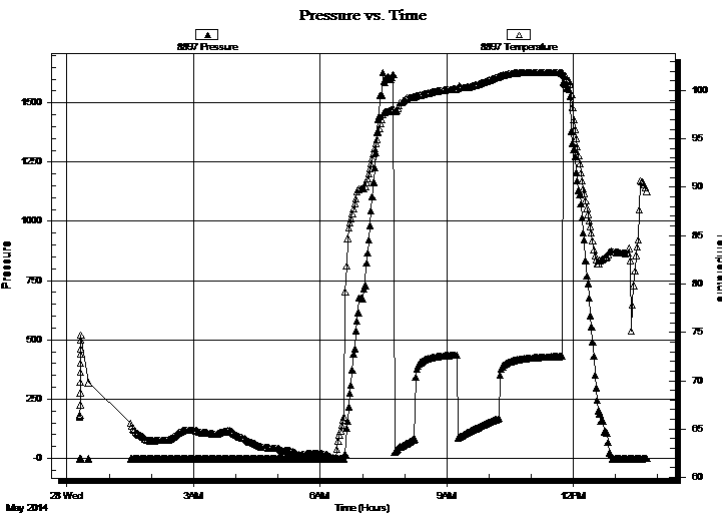
GENERAL INFORMATION:

Formation: **LCK "A-G"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:44:20
 Tester: Phillip Gage
 Time Test Ended: 13:44:30
 Unit No: 49
Interval: 3314.00 ft (KB) To 3414.00 ft (KB) (TVD)
 Reference Elevations: 2196.00 ft (KB)
 Total Depth: 3414.00 ft (KB) (TVD)
 2188.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3315.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.28 End Date: 2014.05.28 Last Calib.: 2014.05.28
 Start Time: 00:18:01 End Time: 13:44:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-BOB in 21 mins
 60-ISI-No Return
 60-FF-BOB in 30 mins
 90-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCW, 20%m, 80%w , w ith oil spots	1.49
63.00	HWCM, 50%w , 50%m, w ith oil spots	0.88
156.00	SWCM, 10%w , 90%m, w ith oil spots	2.19
5.00	O, 100%o	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58897

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2014.05.28 @ 00:18:00

Tool Information

Drill Pipe:	Length: 3270.00 ft	Diameter: 3.80 inches	Volume: 45.87 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 46.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3314.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	123.00 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			3292.00	
Shut In Tool	5.00			3297.00	
Hydraulic tool	5.00			3302.00	
Safety Joint	2.00			3304.00	
Packer	5.00			3309.00	23.00 Bottom Of Top Packer
Packer	5.00			3314.00	
Stubb	1.00			3315.00	
Recorder	0.00	8897	Inside	3315.00	
Recorder	0.00	8898	Outside	3315.00	
Perforations	31.00			3346.00	
Change Over Sub	1.00			3347.00	
Drill Pipe	63.00			3410.00	
Change Over Sub	1.00			3411.00	
Bullnose	3.00			3414.00	100.00 Bottom Packers & Anchor

Total Tool Length: 123.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58897

DST#: 4

ATTN: Chuck Schmaltz

Test Start: 2014.05.28 @ 00:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	MCW, 20%m, 80%w , with oil spots	1.494
63.00	HWCM, 50%w , 50%m, with oil spots	0.884
156.00	SWCM, 10%w , 90%m, with oil spots	2.188
5.00	O, 100%o	0.070

Total Length: 350.00 ft Total Volume: 4.636 bbl

Num Fluid Samples: 0

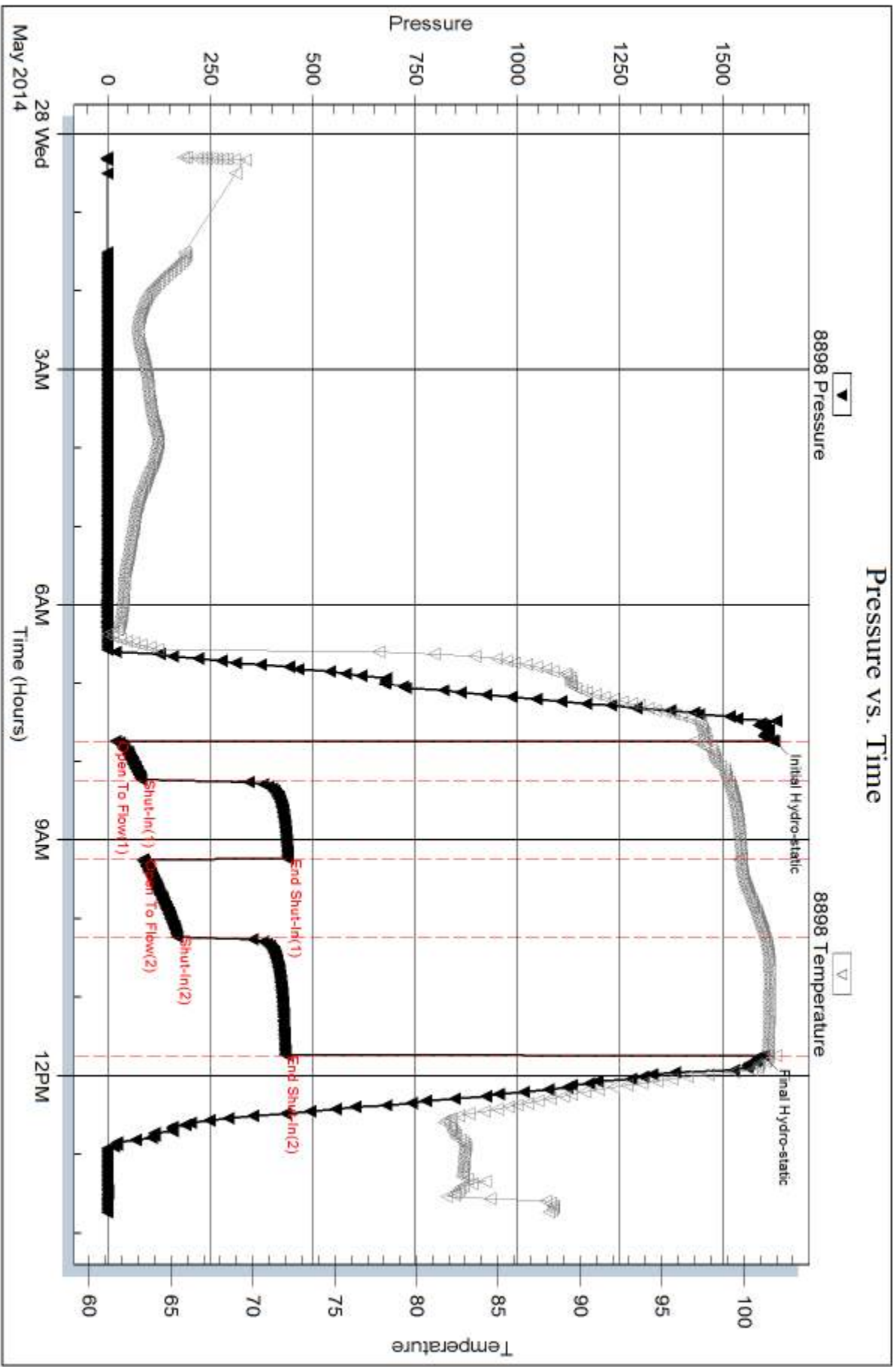
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .21 @ 86 degrees = 30,000 Salinity



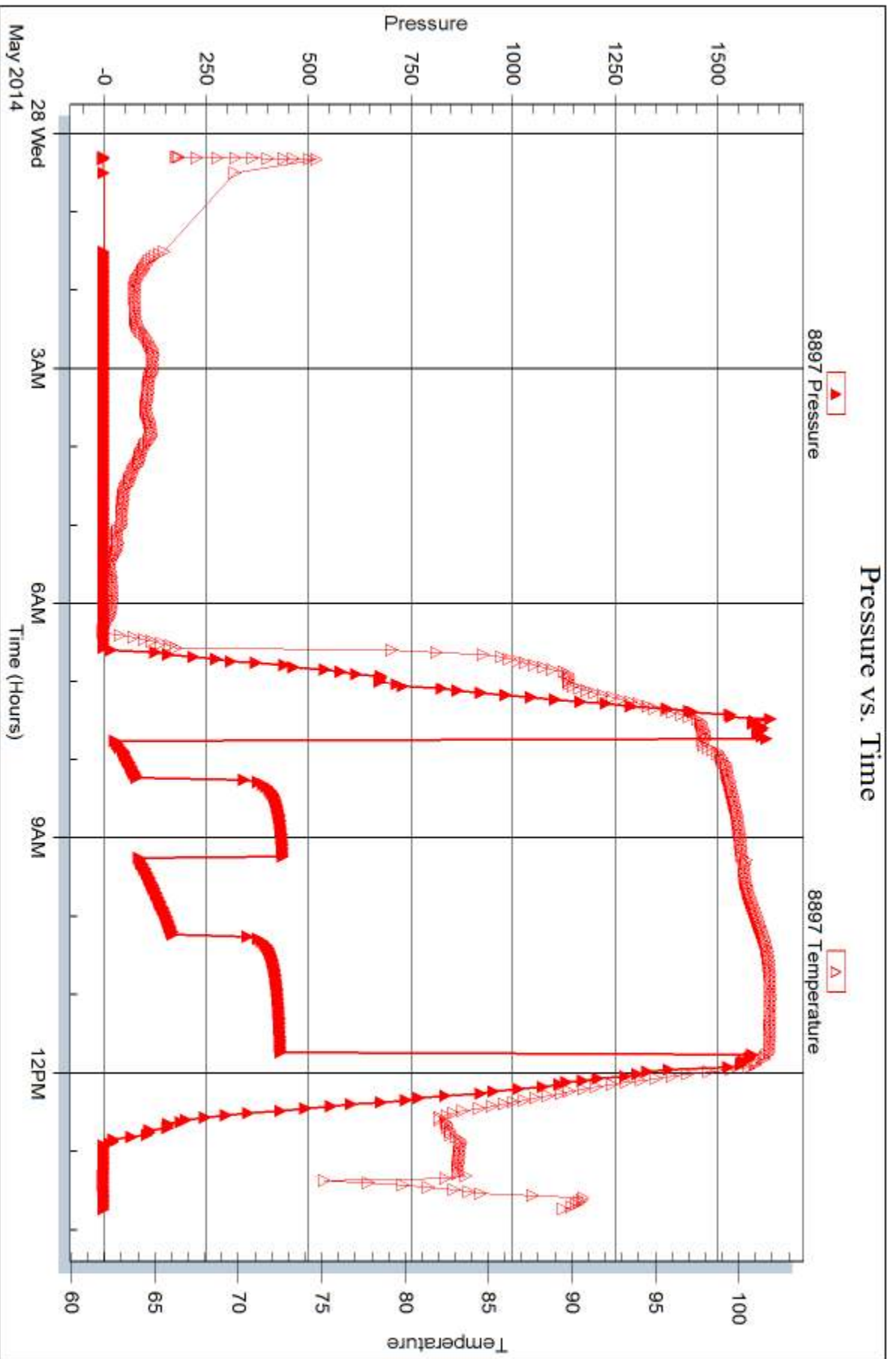
Serial #: 8897

Inside

Gore Oil Company

Denumth #9

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 58897

Printed: 2014.05.30 @ 16:59:28



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wicitha, KS 67202

ATTN: Chuck Schmaltz

Demuth #9

22-5s-20w Phillips,KS

Start Date: 2014.05.28 @ 23:00:00

End Date: 2014.05.29 @ 06:05:00

Job Ticket #: 58170 DST #: 5

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

Printed: 2014.05.30 @ 16:59:03

Gore Oil Company
22-5s-20w Phillips,KS
Demuth #9
DST # 5
LKC "G - L"
2014.05.28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58170

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2014.05.28 @ 23:00:00

GENERAL INFORMATION:

Formation: **LKC "G - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:06:45

Time Test Ended: 06:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3415.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8671

Inside

Press@RunDepth: 28.89 psig @ 3416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.28

End Date:

2014.05.29

Last Calib.:

2014.05.29

Start Time: 23:00:05

End Time:

06:04:59

Time On Btm:

2014.05.29 @ 01:06:15

Time Off Btm:

2014.05.29 @ 04:10:00

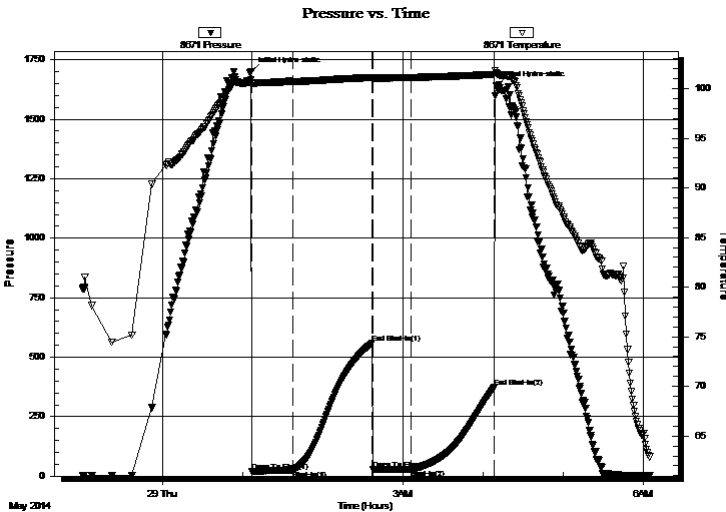
TEST COMMENT: 30 - IF: 1/8" Blow at open, died back, dead at 9 min.

60 - IS: No blow back

30 - FF: No blow

60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.79	100.85	Initial Hydro-static
1	19.66	100.35	Open To Flow (1)
31	25.29	100.73	Shut-In(1)
91	558.38	101.12	End Shut-In(1)
91	27.07	100.99	Open To Flow (2)
120	28.89	101.13	Shut-In(2)
182	373.22	101.44	End Shut-In(2)
184	1641.41	101.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 87% m, 11% o, 2% g	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58170

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2014.05.28 @ 23:00:00

GENERAL INFORMATION:

Formation: **LKC "G - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:06:45

Time Test Ended: 06:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3415.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 3416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.28

End Date:

2014.05.29

Last Calib.:

2014.05.29

Start Time: 23:00:05

End Time:

06:05:44

Time On Btm:

Time Off Btm:

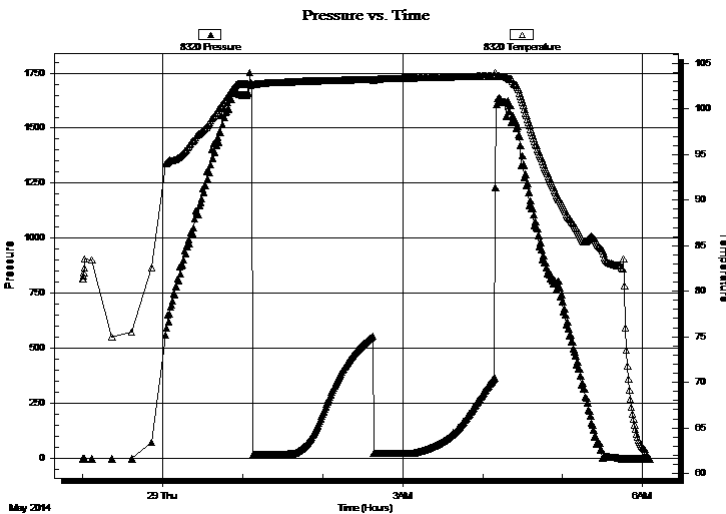
TEST COMMENT: 30 - IF: 1/8" Blow at open, died back, dead at 9 min.

60 - ISI: No blow back

30 - FF: No blow

60 - FSI: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 87% m, 11% o, 2% g	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58170

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2014.05.28 @ 23:00:00

Tool Information

Drill Pipe:	Length: 3379.00 ft	Diameter: 3.80 inches	Volume: 47.40 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3415.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	128.00 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			3397.00	
Hydraulic tool	5.00			3402.00	
Safety Joint	3.00			3405.00	
Packer	5.00			3410.00	23.00 Bottom Of Top Packer
Packer	5.00			3415.00	
Stubb	1.00			3416.00	
Recorder	0.00	8671	Inside	3416.00	
Recorder	0.00	8320	Outside	3416.00	
Perforations	5.00			3421.00	
Blank Spacing	96.00			3517.00	
Bullnose	3.00			3520.00	105.00 Bottom Packers & Anchor

Total Tool Length: 128.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58170

DST#: 5

ATTN: Chuck Schmaltz

Test Start: 2014.05.28 @ 23:00:00

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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	OCM 87% _m , 11% _o , 2% _g	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

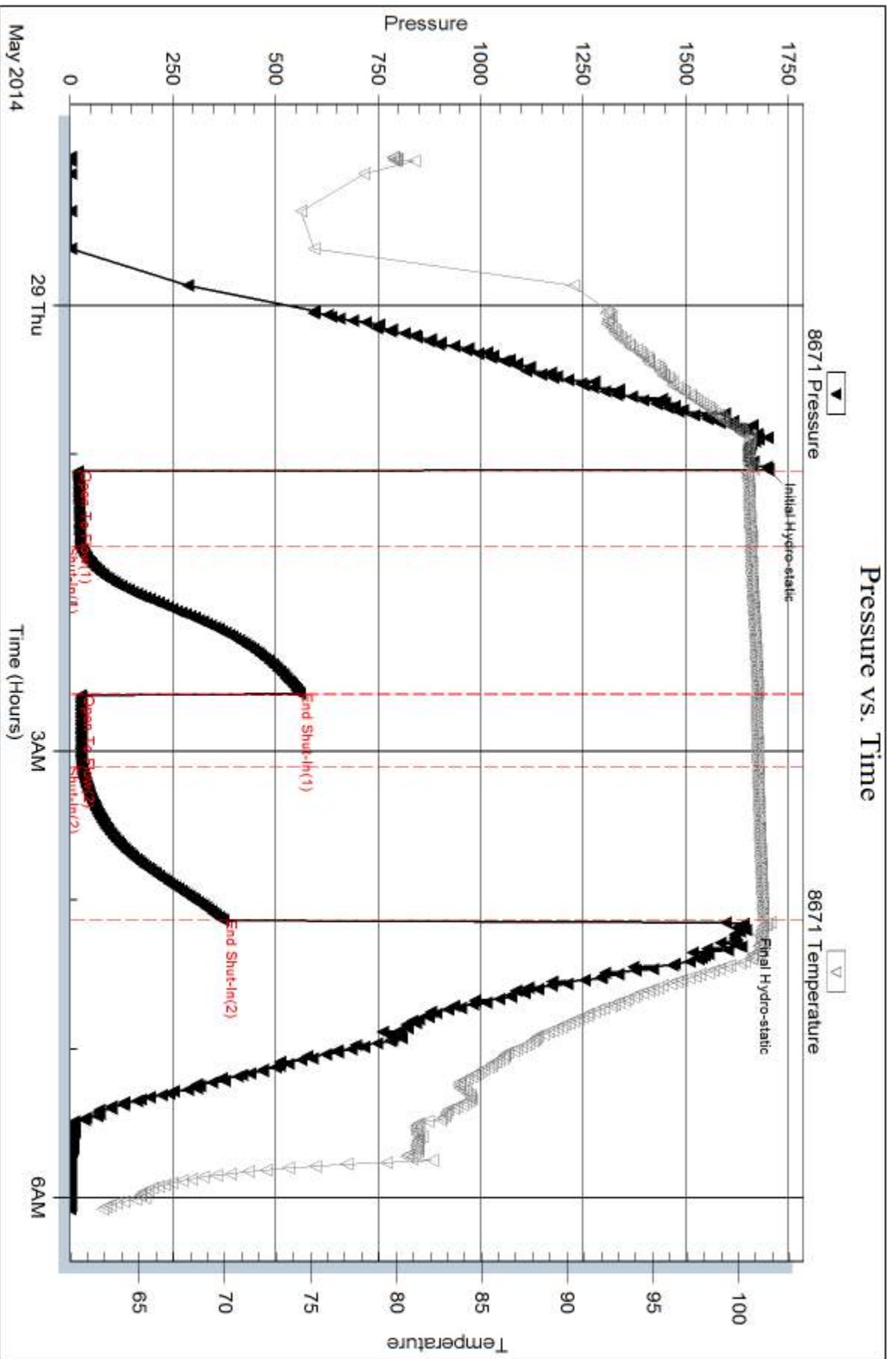
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

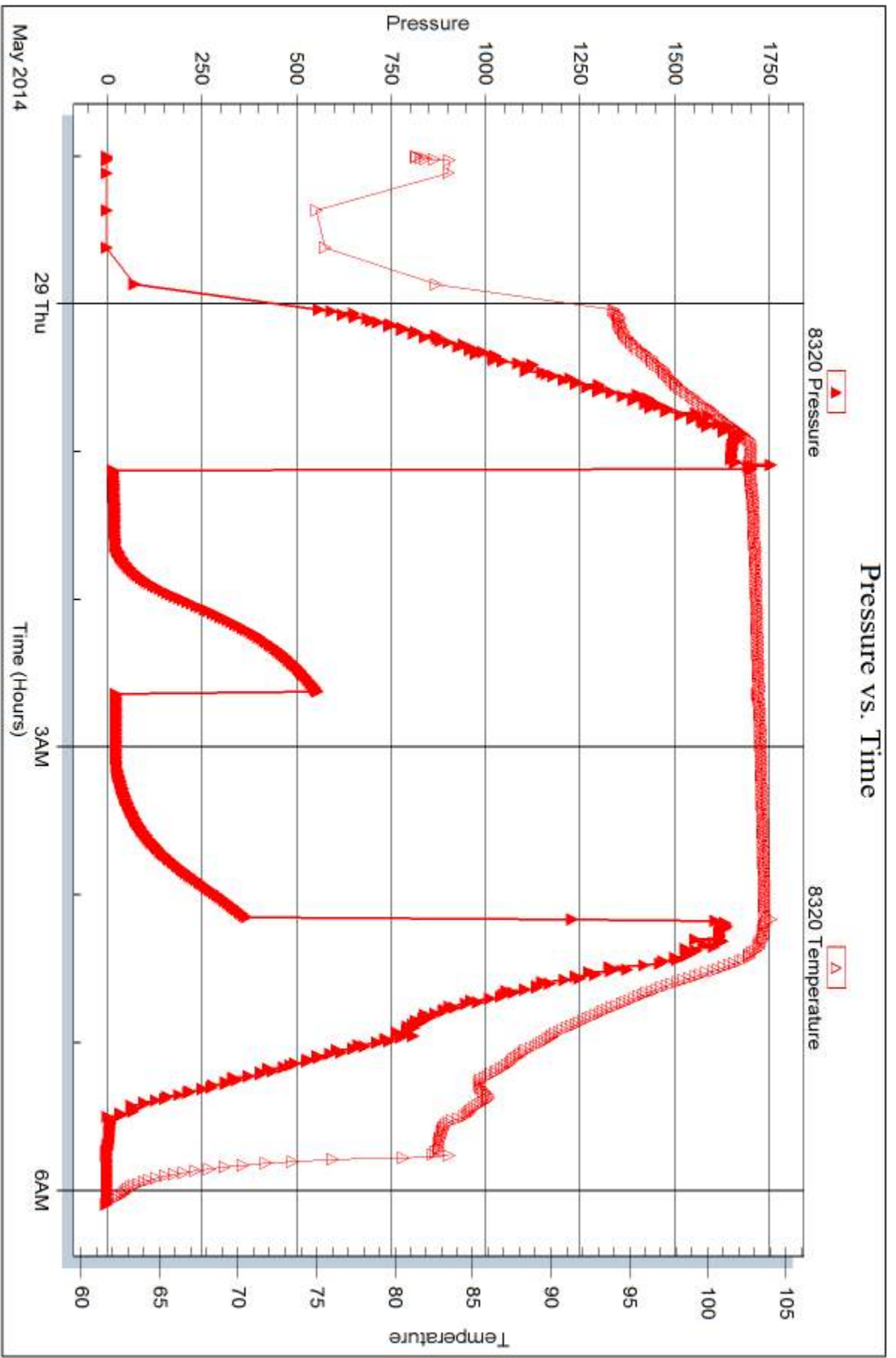


Serial #: 8320

Outside Gore Oil Company

Demuth #9

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 58170

Printed: 2014.05.30 @ 16:59:04



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wicitha, KS 67202

ATTN: Chuck Schmaltz

Demuth #9

22-5s-20w Phillips,KS

Start Date: 2014.05.29 @ 15:21:00

End Date: 2014.05.29 @ 21:36:45

Job Ticket #: 58171 DST #: 6

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

Printed: 2014.05.30 @ 16:58:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58171

DST#: 6

ATTN: Chuck Schmaltz

Test Start: 2014.05.29 @ 15:21:00

GENERAL INFORMATION:

Formation: **CG - Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:05:15

Time Test Ended: 21:36:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3514.00 ft (KB) To 3594.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3594.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8671

Inside

Press@RunDepth: 30.17 psig @ 3515.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.29

End Date:

2014.05.29

Last Calib.:

2014.05.29

Start Time:

15:21:05

End Time:

21:36:44

Time On Btm:

2014.05.29 @ 17:05:00

Time Off Btm:

2014.05.29 @ 20:06:00

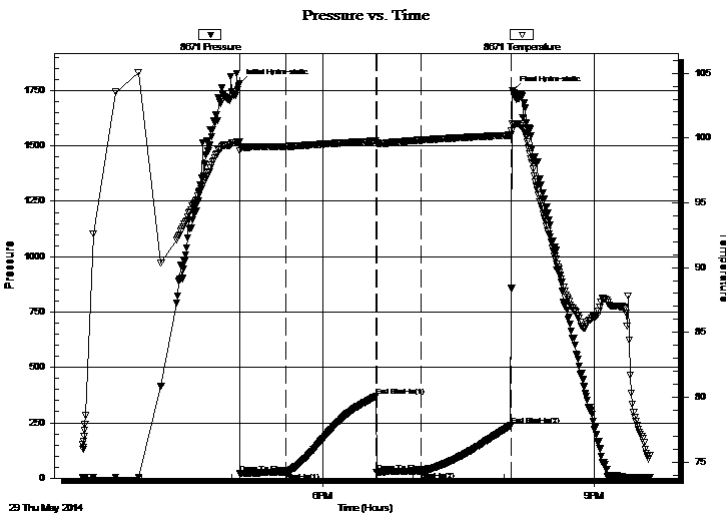
TEST COMMENT: 30 - IF: Blow built to 1/2", died back, dead at 20 min.

60 - ISI: No blow back

30 - FF: No blow

60 - FSI: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.61	99.70	Initial Hydro-static
1	20.17	99.03	Open To Flow (1)
31	25.89	99.35	Shut-In(1)
91	370.82	99.77	End Shut-In(1)
91	27.54	99.56	Open To Flow (2)
121	30.17	99.84	Shut-In(2)
180	237.91	100.22	End Shut-In(2)
181	1748.75	101.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 93% m, 5% o, 2% g	0.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips, KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58171

DST#: 6

ATTN: Chuck Schmaltz

Test Start: 2014.05.29 @ 15:21:00

GENERAL INFORMATION:

Formation: **CG - Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:05:15

Time Test Ended: 21:36:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3514.00 ft (KB) To 3594.00 ft (KB) (TVD)

Total Depth: 3594.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2196.00 ft (KB)

2188.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8320

Outside

Press@RunDepth: psig @ 3515.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.29

End Date:

2014.05.29

Last Calib.:

2014.05.29

Start Time: 15:21:05

End Time:

21:37:29

Time On Btm:

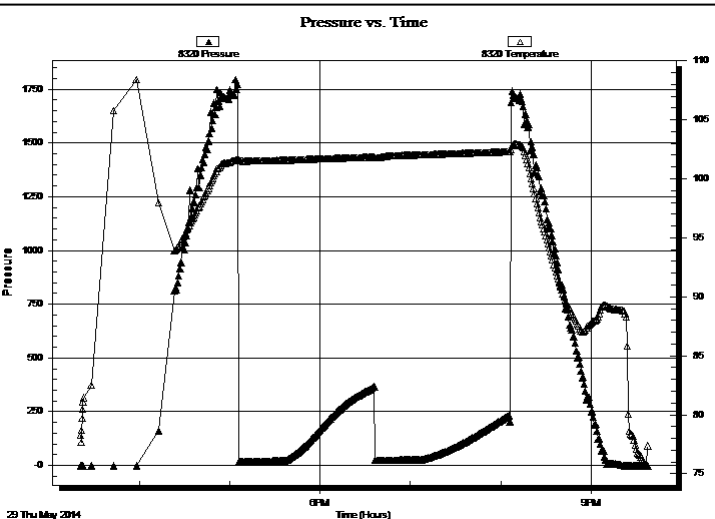
Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to 1/2", died back, dead at 20 min.

60 - ISI: No blow back

30 - FF: No blow

60 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 93%m, 5%o, 2%g	0.10

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58171

DST#: 6

ATTN: Chuck Schmaltz

Test Start: 2014.05.29 @ 15:21:00

Tool Information

Drill Pipe:	Length: 3472.00 ft	Diameter: 3.80 inches	Volume: 48.70 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 48.85 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3514.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	103.00 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			3496.00	
Hydraulic tool	5.00			3501.00	
Safety Joint	3.00			3504.00	
Packer	5.00			3509.00	23.00 Bottom Of Top Packer
Packer	5.00			3514.00	
Stubb	1.00			3515.00	
Recorder	0.00	8671	Inside	3515.00	
Recorder	0.00	8320	Outside	3515.00	
Perforations	11.00			3526.00	
Blank Spacing	65.00			3591.00	
Bullnose	3.00			3594.00	80.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58171

DST#: 6

ATTN: Chuck Schmaltz

Test Start: 2014.05.29 @ 15:21:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM 93% _m , 5% _o , 2% _g	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8671

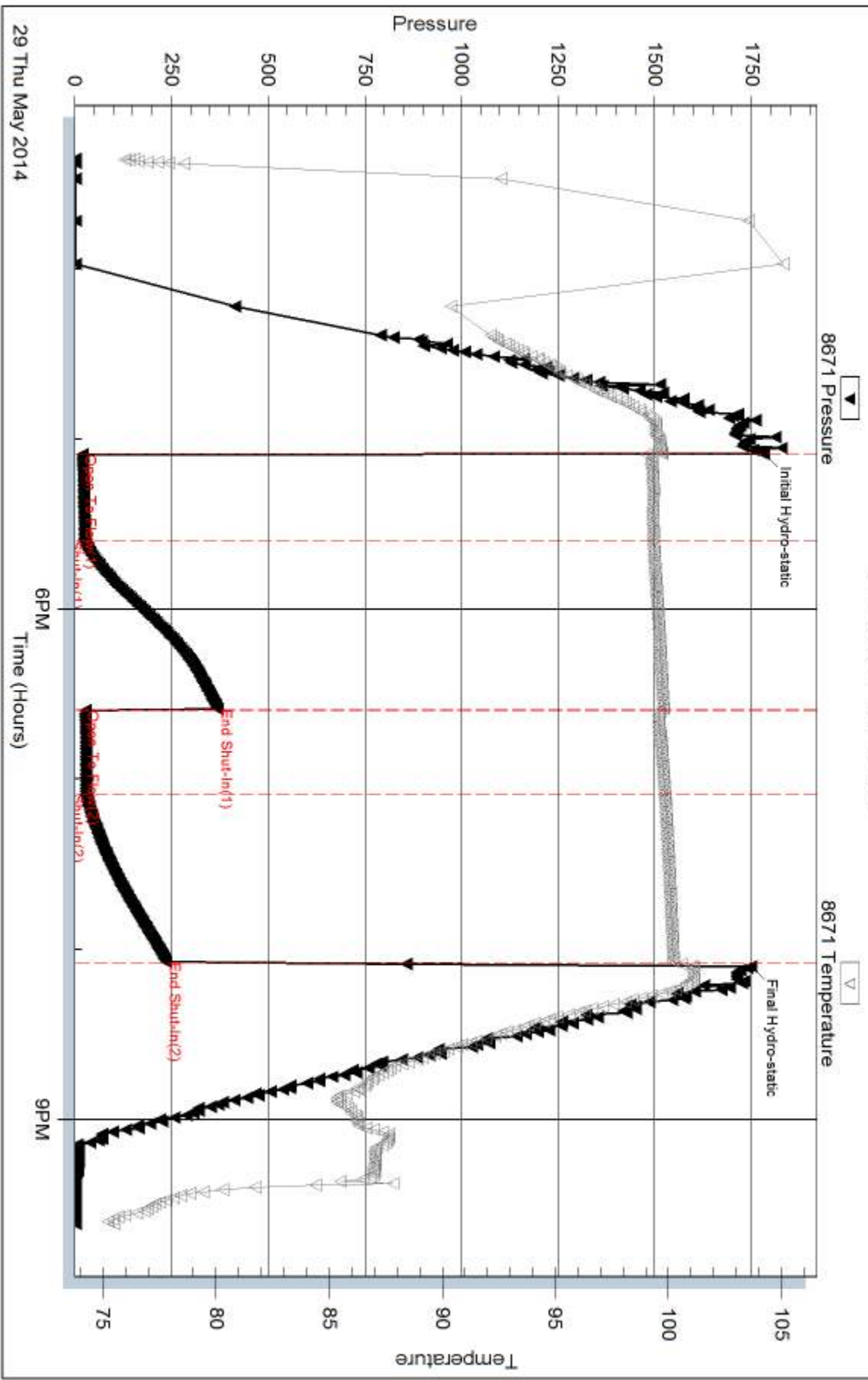
Inside

Gore Oil Company

Demuth #9

DST Test Number: 6

Pressure vs. Time

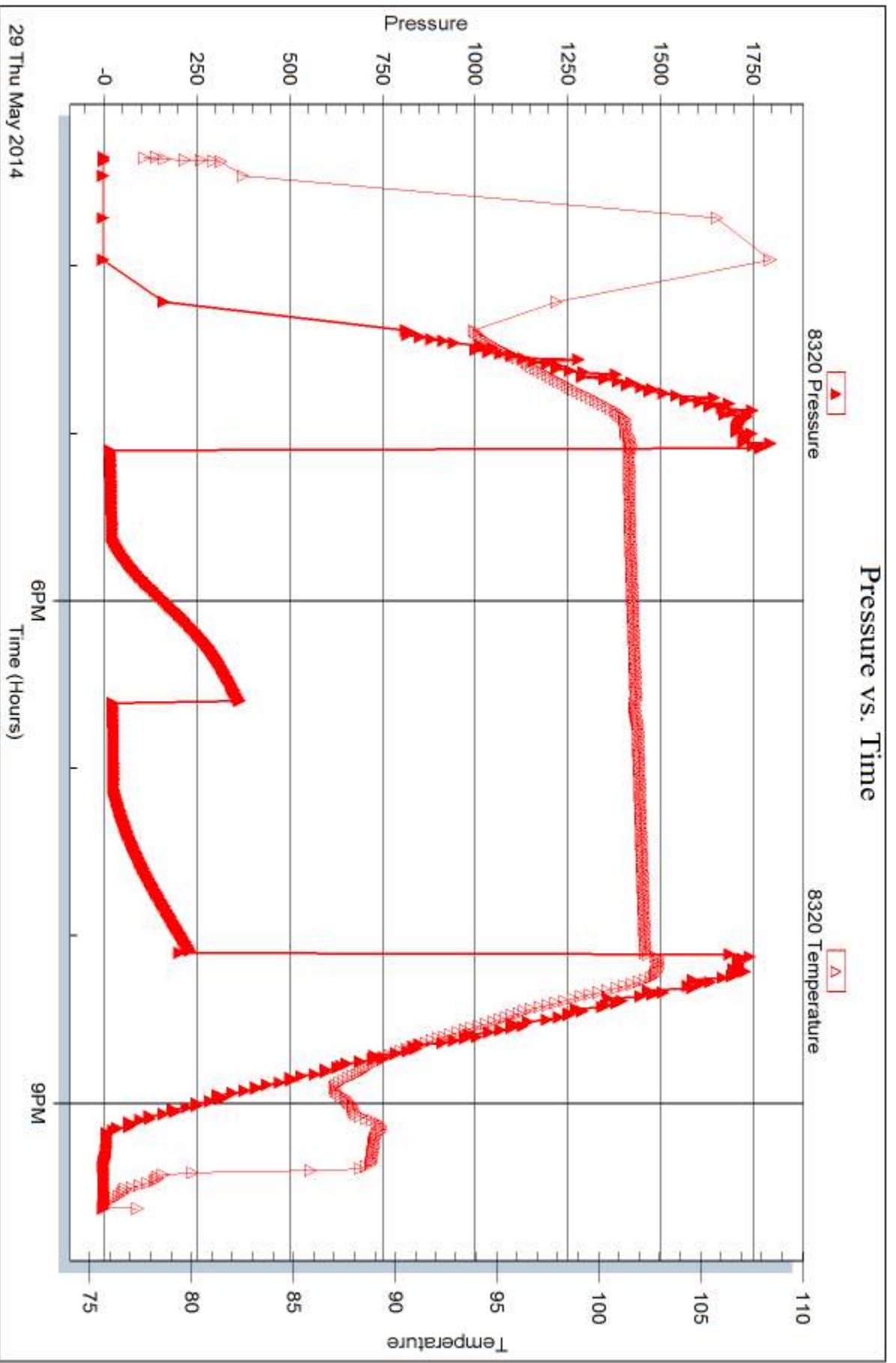


Serial #: 8320

Outside Gore Oil Company

Demuth #9

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 58171

Printed: 2014.05.30 @ 16:58:42



DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757
Wicitha, KS 67202

ATTN: Chuck Schmaltz

Demuth #9

22-5s-20w Phillips,KS

Start Date: 2014.05.30 @ 06:15:00

End Date: 2014.05.30 @ 14:06:15

Job Ticket #: 58172 DST #: 7

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

Printed: 2014.05.30 @ 16:57:47



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58172

DST#: 7

ATTN: Chuck Schmaltz

Test Start: 2014.05.30 @ 06:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:17:45

Time Test Ended: 14:06:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3588.00 ft (KB) To 3610.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3610.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8671

Inside

Press@RunDepth: 110.62 psig @ 3589.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.30

End Date:

2014.05.30

Last Calib.:

2014.05.30

Start Time:

06:15:05

End Time:

14:06:14

Time On Btm:

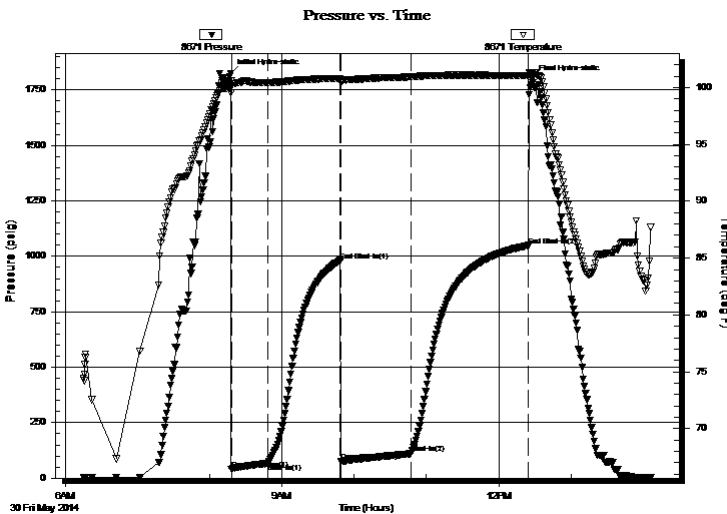
2014.05.30 @ 08:17:15

Time Off Btm:

2014.05.30 @ 12:27:45

TEST COMMENT: 30 - IF: 2" Blow at open, built to BOB (11") at 30 min.
60 - IS: No blow back
60 - FF: 1/2" Blow at open, built to BOB at 60 min.
90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.16	99.96	Initial Hydro-static
1	40.57	99.54	Open To Flow (1)
31	66.53	100.46	Shut-In(1)
91	981.67	100.82	End Shut-In(1)
92	76.61	100.42	Open To Flow (2)
150	110.62	100.95	Shut-In(2)
248	1048.87	101.07	End Shut-In(2)
251	1796.87	101.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	SO/MCW 54%w, 35%m, 6%o mix, 5%g	1.49
43.00	OWCM 65%m, 20%w, 15%o mix	0.60
20.00	SWMCO 85%o, 8%m, 7%w	0.28
31.00	Oil 96%o, 2%g, 2%m	0.43
0.00	GIP = 30'+	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58172

DST#: 7

ATTN: Chuck Schmaltz

Test Start: 2014.05.30 @ 06:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:17:45

Time Test Ended: 14:06:15

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 3588.00 ft (KB) To 3610.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3610.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 3589.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.30

End Date:

2014.05.30

Last Calib.:

2014.05.30

Start Time: 06:15:05

End Time:

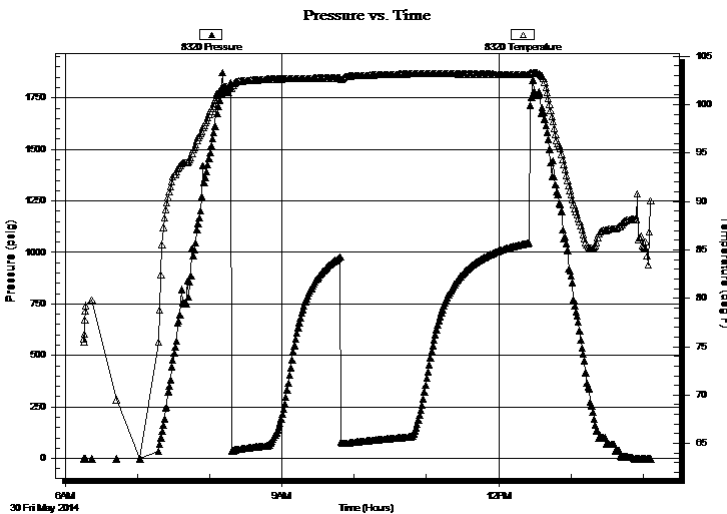
14:06:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF: 2" Blow at open, built to BOB (11") at 30 min.
60 - IS: No blow back
60 - FF: 1/2" Blow at open, built to BOB at 60 min.
90 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
126.00	SO/MCW 54%w , 35%m, 6%o mix, 5%g	1.49
43.00	OWCM 65%m, 20%w , 15%o mix	0.60
20.00	SWMCO 85%o, 8%m, 7%w	0.28
31.00	Oil 96%o, 2%g, 2%m	0.43
0.00	GIP = 30'+	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58172

DST#: 7

ATTN: Chuck Schmaltz

Test Start: 2014.05.30 @ 06:15:00

Tool Information

Drill Pipe:	Length: 3566.00 ft	Diameter: 3.80 inches	Volume: 50.02 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3588.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	45.00 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			3570.00	
Hydraulic tool	5.00			3575.00	
Safety Joint	3.00			3578.00	
Packer	5.00			3583.00	23.00 Bottom Of Top Packer
Packer	5.00			3588.00	
Stubb	1.00			3589.00	
Recorder	0.00	8671	Inside	3589.00	
Recorder	0.00	8320	Outside	3589.00	
Perforations	18.00			3607.00	
Bullnose	3.00			3610.00	22.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Gore Oil Company

22-5s-20w Phillips,KS

PO Box 2757
Wicitha, KS 67202

Demuth #9

Job Ticket: 58172

DST#: 7

ATTN: Chuck Schmaltz

Test Start: 2014.05.30 @ 06:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.59 in³
Resistivity: ohm.m
Salinity: 1300.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 30.8 deg API
Water Salinity: 36000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	SO/MCW 54%w , 35%m, 6%o mix, 5%g	1.494
43.00	OWCM 65%m, 20%w , 15%o mix	0.603
20.00	SWMCO 85%o, 8%m, 7%w	0.281
31.00	Oil 96%o, 2%g, 2%m	0.435
0.00	GIP = 30'+	0.000

Total Length: 220.00 ft Total Volume: 2.813 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 34.4 api @ 96 deg F Corrected Gravity = 30.8 api

RW = .150 ohms @ 93.4 deg F Chlorides = 36,000 ppm

In recovery the 126' fluid and 43' fluid have an oil mixture (oil, mud, gas salt?) in grind out - no clean oil separated

Serial #: 8671

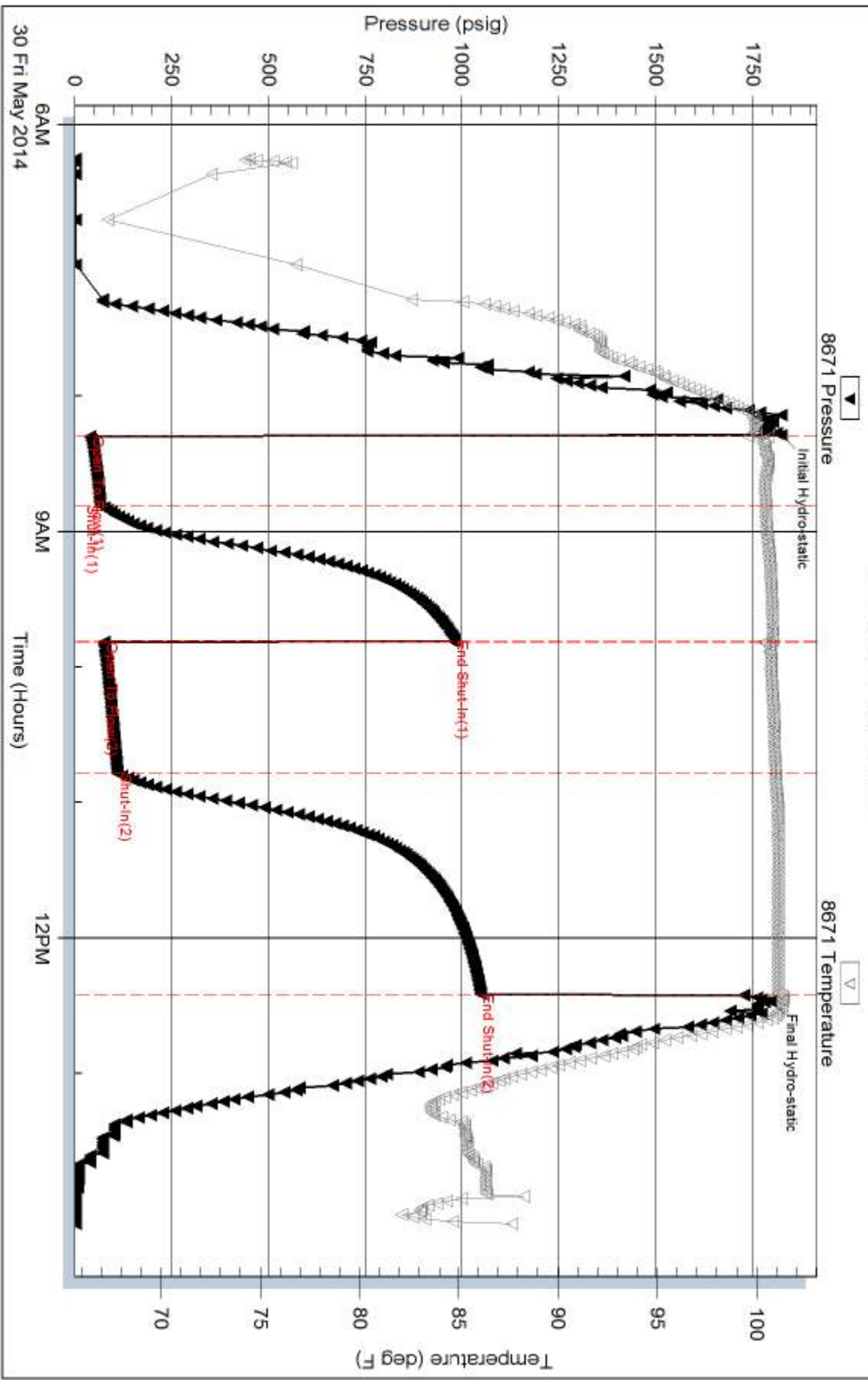
Inside

Gore Oil Company

Demuth #9

DST Test Number: 7

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 58172

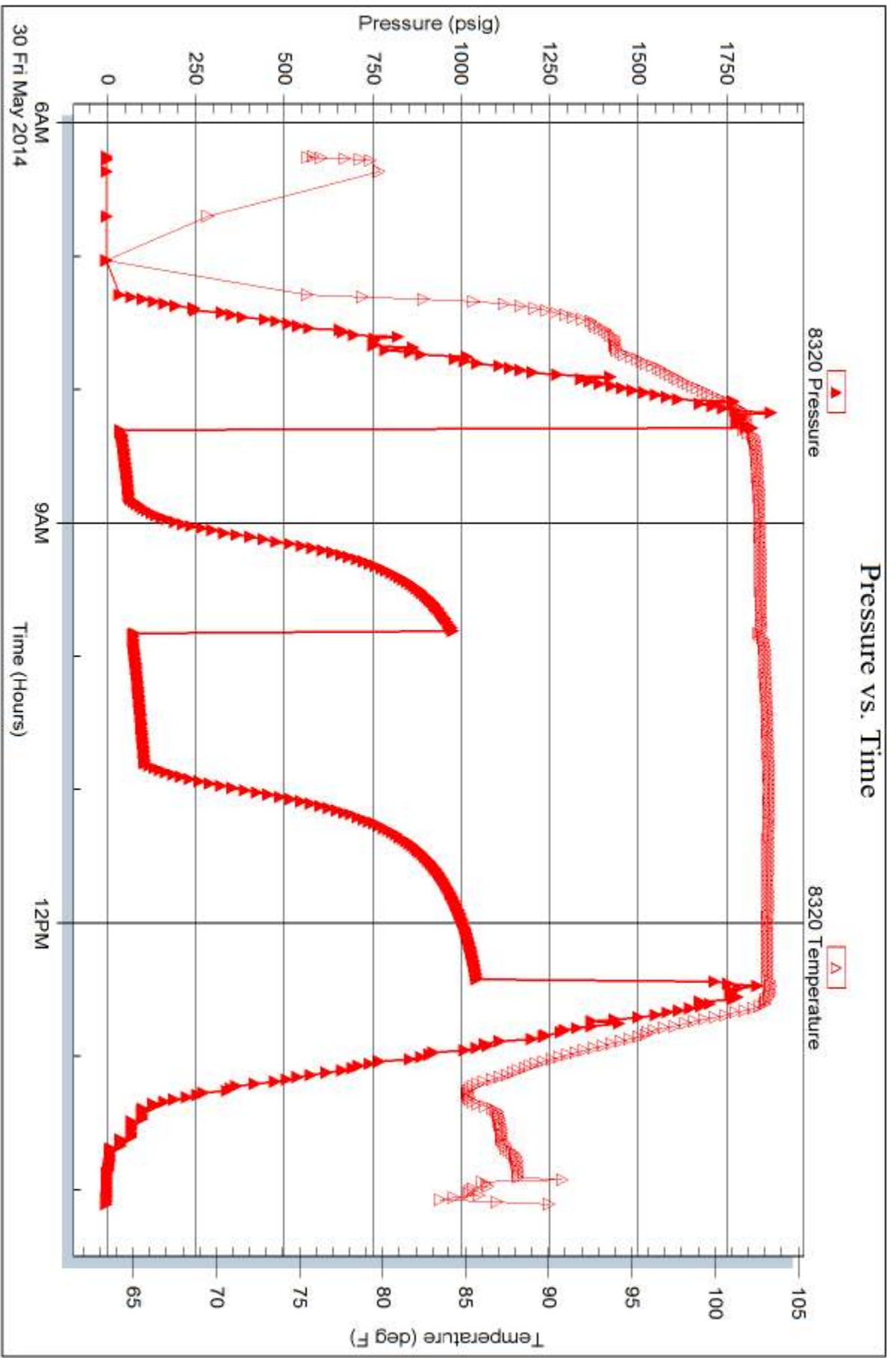
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Serial #: 8320

Outside Gore Oil Company

Demuth #9

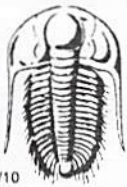
DST Test Number: 7



Trilobite Testing, Inc

Ref. No: 58172

Printed: 2014.05.30 @ 16:57:48



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58894

Well Name & No. Demuth #9 Test No. 1 Date 8-26-14
 Company Gove Oil Company Elevation 2196 KB 2188 GL
 Address 202 S St Francis, P.O. Box 2757 Wichita, KS 67202
 Co. Rep / Geo. Chuck ~~Smith~~ Schmaltz Rig Maverick 108
 Location: Sec. 22 Twp. 5s Rge. 20w Co. Phillips State KS

Interval Tested 3234-3317 Zone Tested Toronto
 Anchor Length 83' Drill Pipe Run 3193 Mud Wt. 8.7
 Top Packer Depth 3229 Drill Collars Run 30 Vis 59
 Bottom Packer Depth 3234 Wt. Pipe Run 0 WL 618
 Total Depth 3317 Chlorides 500 ppm System LCM 1

Blow Description IF- N/A
ISI- N/A
FF- N/A
FSI N/A

Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 0 BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic Test 950 T-On Location 20:27
 (B) First Initial Flow Miss Run Jars T-Started 20:50
 (C) First Final Flow Safety Joint 75 T-Open N/A
 (D) Initial Shut-In Circ Sub T-Pulled N/A
 (E) Second Initial Flow Hourly Standby T-Out 01:25
 (F) Second Final Flow Mileage 160 RT 220.10 Comments Pulled tight at 1200', Pulled tool + went back to bottom with bit
 (G) Final Shut-In Sampler Ruined Shale Packer
 (H) Final Hydrostatic Straddle Ruined Packer
 Shale Packer Extra Copies
 Extra Packer Extra Recorder
 Day Standby Sub Total 0
 Accessibility Total 1245.10
 Sub Total 1245.10 MP/DST Disc't

Approved By Our Representative Phil Hay Thank You

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58895

Well Name & No. Demuth #9 Test No. 2 Date 5-27-14
 Company Gore Oil Company Elevation 2196 KB 2188 GL
 Address 202 S St. Francis, P.O. Box 2757 Wichita, KS 67202
 Co. Rep / Geo. Chuck Schmatz Rig Maverick 108
 Location: Sec. 22 Twp. 5s Rge. 20w Co. Phillips State KS

Interval Tested 3234-3317 Zone Tested Toronto
 Anchor Length 83' Drill Pipe Run ~~3193~~ 3222 Mud Wt. 8.7
 Top Packer Depth 3229 Drill Collars Run 300 Vis 59
 Bottom Packer Depth 3234 Wt. Pipe Run 0 WL 6.8
 Total Depth 3317 Chlorides 500 ppm System LCM 1

Blow Description IF- Built to 1 1/8"
ISI- No Return
FF- No Blow
FSL- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>25'</u>	<u>M. with oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 25 BHT 99 Gravity — API RW @ °F Chlorides — ppm

(A) Initial Hydrostatic <u>1587</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>20:27-5-26-14</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars	T-Started <u>01:38</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>08:49</u>
(D) Initial Shut-In <u>1100</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>11:49</u>
(E) Second Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>13:20</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>160 RT</u>	Comments
(G) Final Shut-In <u>1058</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1558</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1225

Sub Total 1225

MP/DST Disc't

Approved By _____ Our Representative Phil G. [Signature] thank you

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58896

Well Name & No. Demuth #9 Test No. 3 Date 5-27-14
 Company Gore Oil Company Elevation 2196 KB 2188 GL
 Address 202 S St Francis, P.O. Box 2757 Wichita, KS 67202
 Co. Rep / Geo. Chuck Schmalz Rig Maverick 108
 Location: Sec. 22 Twp. 5s Rge. 20w Co. Phillips State KS

Interval Tested 3314-3414 Zone Tested LKC "A-G"
 Anchor Length 100' Drill Pipe Run 3270 Mud Wt. 9.0
 Top Packer Depth 3309 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 3314 Wt. Pipe Run 0 WL 7.2
 Total Depth 3414 Chlorides 700 ppm System LCM 2#

Blow Description IF- N/A
ISF- N/A
FF- N/A
FSE- N/A

Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 0 BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic Test 950 T-On Location 20:50
 (B) First Initial Flow Jars T-Started 20:52
 (C) First Final Flow Safety Joint 75 T-Open N/A
 (D) Initial Shut-In Circ Sub T-Pulled 23:10
 (E) Second Initial Flow Hourly Standby T-Out 23:59
 (F) Second Final Flow Mileage 160 RT 220.10 Comments Mis Run. Hit
 (G) Final Shut-In Sampler Bridge at 1200'. Went
 (H) Final Hydrostatic Straddle back to bottom with bit.
Mis Run. Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open Extra Packer
 Initial Shut-In Extra Recorder Sub Total 0
 Final Flow Day Standby Total 1245.10
 Final Shut-In Accessibility MP/DST Disc't
 Sub Total 1245.10

Approved By Our Representative Philp Lee Thank You

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58897

Well Name & No. Demuth #9 Test No. 4 Date 5-28-14
 Company Gore Oil Company Elevation 2196 KB 2188 GL
 Address 202 S St Francis, P.O. Box 2757 Wichita, KS 67202
 Co. Rep / Geo. Chuck Schmalte Rig Maverick 108
 Location: Sec. 22 Twp. 5s Rge. 20w Co. Phillips State KS

Interval Tested 3314 - 3414 Zone Tested LKC "A-G"
 Anchor Length 100 Drill Pipe Run 3270 Mud Wt. 9.0
 Top Packer Depth 3309 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 3314 Wt. Pipe Run 0 WL 7.2
 Total Depth 3414 Chlorides 700 ppm System LCM 2#

Blow Description IF - BOB in 21 min
ISI - No Return
FF - BOB in 30 min
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
126	MCW, with oil spots		80	20	
63	HWCN, with oil spots		50	50	
156	SWCM, with oil spots		10	90	
5	0	100			

Rec Total 350 BHT 101 Gravity 36 API RW 121 @ 86 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic 1626 Test 1150 T-On Location 20:50 5-27-14
 (B) First Initial Flow 18 Jars _____ T-Started 00:18
 (C) First Final Flow 82 Safety Joint 75 T-Open 07:45
 (D) Initial Shut-In 438 Circ Sub _____ T-Pulled 11:45
 (E) Second Initial Flow 85 Hourly Standby _____ T-Out 13:45
 (F) Second Final Flow 170 Mileage 160 RT Comments _____
 (G) Final Shut-In 432 Sampler _____
 (H) Final Hydrostatic 1599 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1225
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1225

Approved By _____ Our Representative Chuck Schmalte Thank You

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58170

Well Name & No. Demuth # 9 Test No. 5 Date 5-28-14
 Company Gore Oil Co. Elevation 2196 KB 2188 GL
 Address 202 S. St Francis PO Box 2757 Wichita, KS 67202
 Co. Rep / Geo. Chuck Small Rig Maverick #108
 Location: Sec. 22 Twp. 5S Rge. 20W Co. Phillips State KS

Interval Tested 3415 - 3520 Zone Tested Lans. "6-L"
 Anchor Length 105 Drill Pipe Run 3379 Mud Wt. 8.9
 Top Packer Depth 3410 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3415 Wt. Pipe Run - WL 6.8
 Total Depth 3520 Chlorides 700 ppm System LCM 4

Blow Description IF: 1/8" Blow at open, died back, dead at 9 min.
ISI: No blowback
FF: No blow
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0cm</u>	<u>2</u>	<u>11</u>	<u>87</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

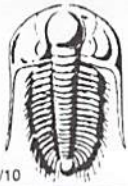
Rec Total 10 BHT 101 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1702 Test 1150 T-On Location 22:30 5/28
 (B) First Initial Flow 20 Jars _____ T-Started 23:00
 (C) First Final Flow 25 Safety Joint 75 T-Open 1:06
 (D) Initial Shut-In 558 Circ Sub _____ T-Pulled 4:08
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 6:00 5/29
 (F) Second Final Flow 29 Mileage 142RT 220.10 Comments _____
 (G) Final Shut-In 373 Sampler _____
 (H) Final Hydrostatic 1641 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____
 Initial Shut-In 60 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1445.10 Sub Total 0
 Total 1445.10 MP/DST Disc't _____

Approved By [Signature] Our Representative James Winder

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58171**

4/10

Well Name & No. Demuth #9 Test No. 6 Date 5-29-14
 Company Gore Oil Co. Elevation 2196 KB 2188 GL
 Address 202 S. St Francis PO Box 2757 Wichita, KS 67202
 Co. Rep / Geo. Chuck Small Rig Maverick #108
 Location: Sec. 22 Twp. 5s Rge. 20w Co. Phillips State KS

Interval Tested 3514-3594 Zone Tested CG - Simpson
 Anchor Length 80 Drill Pipe Run 3472 Mud Wt. 8.9
 Top Packer Depth 3509 Drill Collars Run 30 Vis 52
 Bottom Packer Depth 3514 Wt. Pipe Run - WL 6.8
 Total Depth 3594 Chlorides 1200 ppm System LCM 4
 Blow Description IF: Blow built to 1/2", died back, dead at 20 min.
ISI: No blowback
FF: No blow
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>50cm</u>	<u>2</u>	<u>5</u>	<u>-</u>	<u>93</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 100 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1783 Test 1150 T-On Location 14:35
 (B) First Initial Flow 20 Jars _____ T-Started 15:21
 (C) First Final Flow 26 Safety Joint 75 T-Open 17:05
 (D) Initial Shut-In 371 Circ Sub _____ T-Pulled 20:04
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 21:30
 (F) Second Final Flow 30 Mileage 142RT 220.10 Comments _____
 (G) Final Shut-In 238 Sampler _____
 (H) Final Hydrostatic 1749 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub-Total 1445.10 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Approved By [Signature] Our Representative James Winkler

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58172

Well Name & No. Demuth #9 Test No. 7 Date 5-30-14
 Company Gore Oil Co. Elevation 2196 KB 2188 GL
 Address 202 S. St Francis PO Box 2757 Wichita, KS 67202
 Co. Rep / Geo. Chuck Small Rig Maverick #108
 Location: Sec. 22 Twp. 5s Rge. 20w Co. Phillips State KS

Interval Tested 3588 - 3610 Zone Tested Arbuckle
 Anchor Length 22 Drill Pipe Run 3566 Mud Wt. 9.1
 Top Packer Depth 3583 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3588 Wt. Pipe Run - WL 7.6
 Total Depth 3610 Chlorides 1300 ppm System LCM 4

Blow Description IF: 2" Blow at open, built to BOB (11") at 30 min.
ISI: No blowback
FF: 1/2" Blow at open, built to BOB at 60 min.
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Oil</u>	<u>2</u>	<u>96</u>	<u>-</u>	<u>2</u>
<u>20</u>	<u>Swmco</u>	<u>-</u>	<u>85</u>	<u>7</u>	<u>8</u>
<u>43</u>	<u>OWcm</u>	<u>%gas 15</u>	<u>mix %oil</u>	<u>20 %water</u>	<u>65 %mud</u>
<u>126</u>	<u>SO/mcw</u>	<u>5 %gas</u>	<u>6 mix %oil</u>	<u>54 %water</u>	<u>35 %mud</u>
<u> </u>	<u>GIP = 30+</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total ~~200~~ 220 BHT _____ Gravity 30.8 API RW .150 @ 93.4 °F Chlorides 36,000 ppm

(A) Initial Hydrostatic 1825 Test 1150 T-On Location 5:20
 (B) First Initial Flow 41 Jars _____ T-Started 6:15
 (C) First Final Flow 67 Safety Joint 75 T-Open 8:17
 (D) Initial Shut-In 982 Circ Sub _____ T-Pulled 12:24
 (E) Second Initial Flow 77 Hourly Standby _____ T-Out 14:00
 (F) Second Final Flow 111 Mileage 142 RT 220.10 Comments _____
 (G) Final Shut-In 1049 Sampler _____
 (H) Final Hydrostatic 1797 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1445.10
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1445.10

Approved By [Signature] Our Representative James Winder

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.