

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

370 W Wichita Ave
Russell KS 67665

ATTN: Bob Stutzle

25-17s-25w Ness KS

Gabel #2

Start Date: 2009.09.23 @ 10:01:05

End Date: 2009.09.23 @ 15:42:59

Job Ticket #: 35370

DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer

370 W Wichita Ave
Russell, KS 67665

ATTN: Bob Stolzle

Gabel #2

25-17s-25w Ness KS

Job Ticket: 35370

DST#: 1

Test Start: 2009.09.23 @ 10:01:05

GENERAL INFORMATION:

Formation: **Ft. Scott**

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

Time Tool Opened: 12:05:30

Time Test Ended: 15:42:59

Interval: **4275.00 ft (KB) To 4325.00 ft (KB) (TVD)**

Total Depth: **4325.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Dorsch**

Unit No: **48**

Reference Elevations: **2439.00 ft (KB)**

2431.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8322

Inside

Press@RunDepth: **33.02 psig @ 4276.00 ft (KB)**

Start Date: **2009.09.23**

End Date:

2009.09.23

Start Time: **10:01:05**

End Time:

15:42:59

Capacity: **8000.00 psig**

Last Calib.: **2009.09.23**

Time On Btm: **2009.09.23 @ 12:05:15**

Time Off Btm: **2009.09.23 @ 14:08:30**

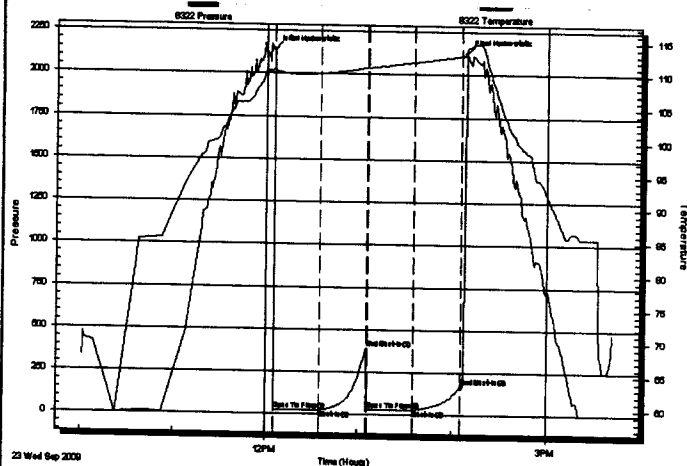
TEST COMMENT: IF: Built to 3/4 inch died back to 1/2 inch.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

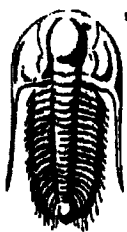
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.59	110.82	Initial Hydro-static
1	24.29	110.24	Open To Flow (1)
30	27.41	110.17	Shut-In(1)
60	390.71	111.15	End Shut-In(1)
61	32.61	111.11	Open To Flow (2)
90	33.02	111.93	Shut-In(2)
121	173.20	112.90	End Shut-In(2)
124	2124.08	113.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mw / O spots 100%rn	0.07
0.00	GIP = 0	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

John O Farmer

Gabel #2

370 W Wichita Ave
Russell, KS 67665

25-17s-25w Ness KS

Job Ticket: 35370

DST#: 1

ATTN: Bob Stolzle

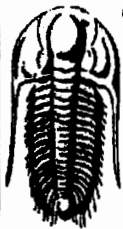
Test Start: 2009.09.23 @ 10:01:05

Tool Information

Drill Pipe:	Length: 4244.00 ft	Diameter: 3.88 inches	Volume: 62.07 bbl	Tool Weight:	1500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	62.22 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4275.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	78.00 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			4248.00	
Shut In Tool	5.00			4253.00	
Hydraulic tool	5.00			4258.00	
Jars	5.00			4263.00	
Safety Joint	3.00			4266.00	
Packer	5.00			4271.00	28.00 Bottom Of Top Packer
Packer	4.00			4275.00	
Stubb	1.00			4276.00	
Recorder	0.00	8322	Inside	4276.00	
Recorder	0.00	6741	Inside	4276.00	
Perforations	5.00			4281.00	
Change Over Sub	1.00			4282.00	
Drill Pipe	32.00			4314.00	
Change Over Sub	1.00			4315.00	
Perforations	5.00			4320.00	
Bullnose	5.00			4325.00	50.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Gabel #2

370 W Wichita Ave
Russell, KS 67665

25-17s-25w Ness KS

Job Ticket: 35370

DST#: 1

ATTN: Bob Stozle

Test Start: 2009.09.23 @ 10:01:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 8.74 in³

Resistivity: 0.00 ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mw / O spots 100%m	0.074
0.00	GIP = 0	0.000

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8322

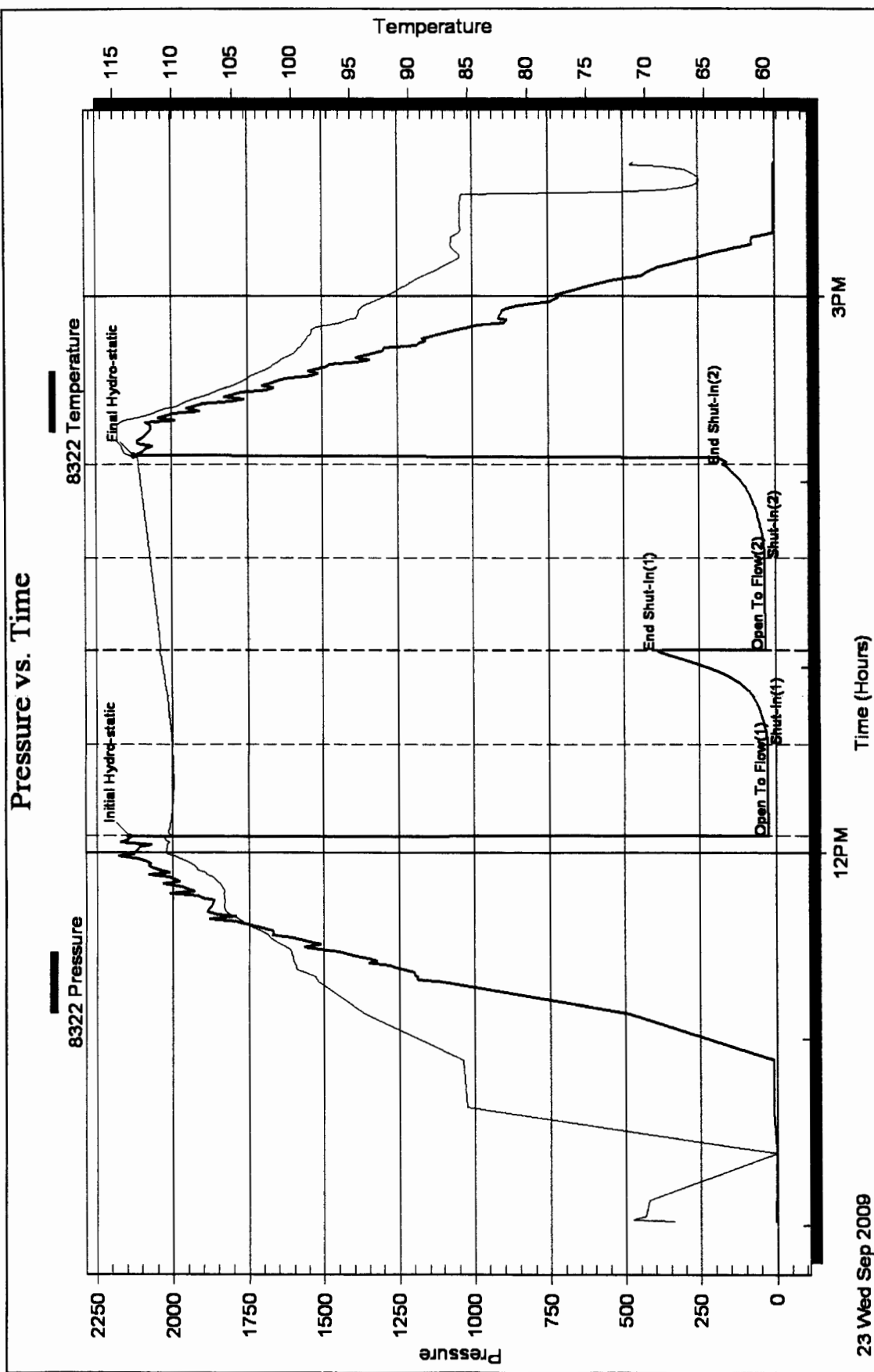
Inside

John O Farmer

25-17s-25w Ness KS

DST Test Number: 1

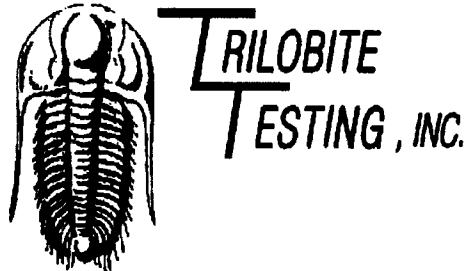
Pressure vs. Time



Ref. No: 35370

Trilobite Testing, Inc

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DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

370 W Wichita Ave
Russell, KS 67665

ATTN: Bob Stolze

25-17s-25w Ness KS

Gabel #2

Start Date: 2009.09.24 @ 00:28:05

End Date: 2009.09.24 @ 07:25:14

Job Ticket #: 35371 DST #: 2

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DRILL STEM TEST REPORT

John O Farmer

370 W Wichita Ave
Russell, KS 67665

ATTN: Bob Stolzle

Gabel #2

25-17s-25w Ness KS

Job Ticket: 35371

DST#: 2

Test Start: 2009.09.24 @ 00:28:05

GENERAL INFORMATION:

Formation: **Cherokee Sand**

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

Time Tool Opened: 02:15:15

Time Test Ended: 07:25:14

Interval: **4345.00 ft (KB) To 4391.00 ft (KB) (TVD)**

Total Depth: **4391.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Reference Elevations: **2439.00 ft (KB)**

2431.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8322

Inside

Press@RunDepth: **56.75 psig @ 4346.00 ft (KB)**

Start Date: **2009.09.24**

End Date:

2009.09.24

Start Time: **00:28:05**

End Time:

07:25:14

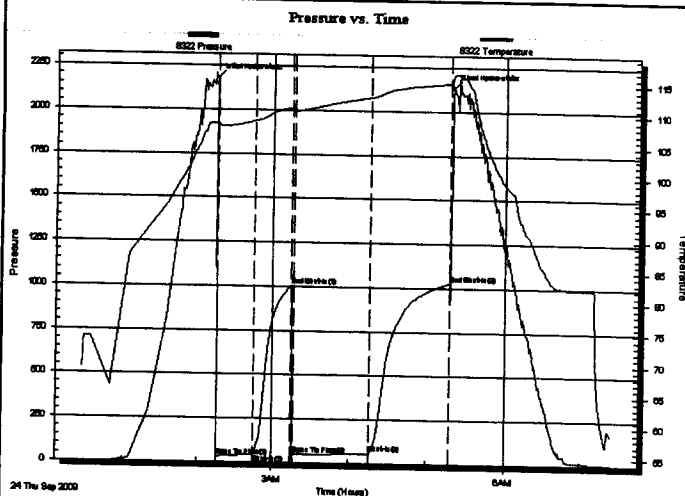
Capacity: **8000.00 psig**

Last Calib.: **2009.09.24**

Time On Btm: **2009.09.24 @ 02:15:00**

Time Off Btm: **2009.09.24 @ 05:19:30**

TEST COMMENT: IF: Built to 4 1/2 inches.
IS: No return.
FF: Built to 7 1/2 inches.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2178.03	108.53	Initial Hydro-static
1	29.53	108.07	Open To Flow (1)
30	43.24	108.90	Shut-in (1)
60	1003.06	111.08	End Shut-in (1)
62	46.28	110.67	Open To Flow (2)
121	56.75	112.85	Shut-in (2)
183	1029.18	115.23	End Shut-in (2)
185	2136.79	116.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	OCM 20%o 80%rn	0.80
15.00	CGO 10%g 90%o	0.22
0.00	GP = 30 ft	0.00
0.00	API = 39@60 F = 39	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
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TOOL DIAGRAM

John O Farmer

Gabel #2

370 W Wichita Ave
Russell, KS 67665

25-17s-25w Ness KS

Job Ticket: 35371

DST#: 2

ATTN: Bob Stolzle

Test Start: 2009.09.24 @ 00:28:05

Tool Information

Drill Pipe:	Length: 4307.00 ft	Diameter: 3.88 inches	Volume: 62.99 bbl	Tool Weight:	1500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	63.14 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	4345.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	74.00 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			4318.00	
Shut In Tool	5.00			4323.00	
Hydraulic tool	5.00			4328.00	
Jars	5.00			4333.00	
Safety Joint	3.00			4336.00	
Packer	5.00			4341.00	28.00 Bottom Of Top Packer
Packer	4.00			4345.00	
Stubb	1.00			4346.00	
Recorder	0.00	8322	Inside	4346.00	
Recorder	0.00	6741	Inside	4346.00	
Perforations	7.00			4353.00	
Change Over Sub	1.00			4354.00	
Drill Pipe	31.00			4385.00	
Change Over Sub	1.00			4386.00	
Bullnose	5.00			4391.00	46.00 Bottom Packers & Anchor

Total Tool Length: 74.00



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Job Ticket: 35371

DST#: 2

ATTN: Bob Stolze

Test Start: 2009.09.24 @ 00:28:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.59 in³

Resistivity: 0.00 ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

39 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	OCM 20%o 80% _m	0.796
15.00	CGO 10%g 90% _o	0.219
0.00	GIP = 30 ft	0.000
0.00	API = 39 @ 60 F = 39	0.000

Total Length: 90.00 ft

Total Volume: 1.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

