



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Conner Unit #1

2-9s-22w Graham,KS

Start Date: 2015.02.22 @ 20:26:00

End Date: 2015.02.23 @ 05:34:30

Job Ticket #: 62416 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.02.23 @ 16:13:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O. Farmer Inc

2-9s-22w Graham,KS

PO Box 352
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Conner Unit #1

ATTN: Austin Klaus

Job Ticket: 62416

DST#: 1

Test Start: 2015.02.22 @ 20:26:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:08:00

Time Test Ended: 05:34:30

Test Type: Conventional Straddle (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 3786.00 ft (KB) To 3815.00 ft (KB) (TVD)

Reference Elevations: 2206.00 ft (KB)

Total Depth: 3852.00 ft (KB) (TVD)

2200.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8940 Outside

Press@RunDepth: 149.25 psig @ 3787.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.22

End Date:

2015.02.23

Last Calib.:

2015.02.23

Start Time: 20:26:05

End Time:

05:34:30

Time On Btm:

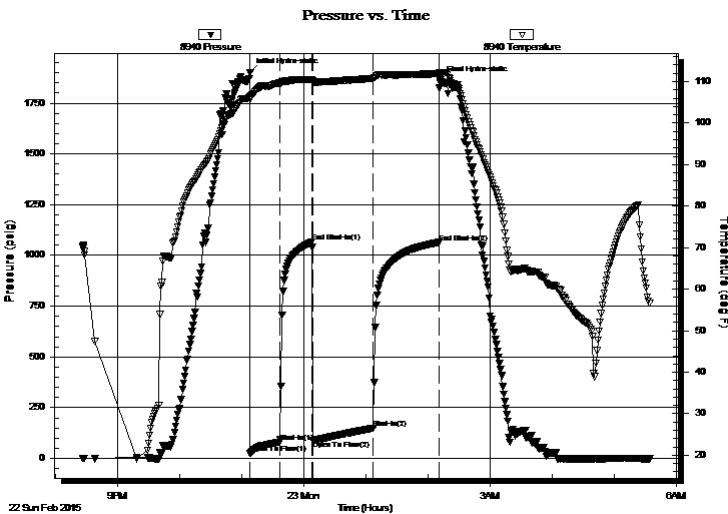
2015.02.22 @ 23:07:45

Time Off Btm:

2015.02.23 @ 02:11:00

TEST COMMENT: 30 - IF- 7 1/2" blow
30 - IS- Surface return, died in 10 minutes
60 - FF- 6" blow
60 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.73	106.24	Initial Hydro-static
1	25.39	105.77	Open To Flow (1)
29	80.91	109.64	Shut-In(1)
60	1064.96	110.53	End Shut-In(1)
61	89.62	110.14	Open To Flow (2)
119	149.25	110.78	Shut-In(2)
183	1064.10	111.89	End Shut-In(2)
184	1862.98	112.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GHOCM, 20%G, 40%O, 40%M	0.30
355.00	GO, 30%G, 70%O	4.45

Gas Rates

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



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TOOL DIAGRAM

John O. Farmer Inc

2-9s-22w Graham,KS

PO Box 352
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Job Ticket: 62416

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.02.22 @ 20:26:00

Tool Information

Drill Pipe:	Length: 3678.00 ft	Diameter: 3.80 inches	Volume: 51.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 52.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3786.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	3815.00 ft			
Interval between Packers:	29.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3766.00	
Shut In Tool	5.00			3771.00	
Hydraulic tool	5.00			3776.00	
Packer	5.00			3781.00	21.00 Bottom Of Top Packer
Packer	5.00			3786.00	
Stubb	1.00			3787.00	
Recorder	0.00	8648	Inside	3787.00	
Recorder	0.00	8940	Outside	3787.00	
Perforations	28.00			3815.00	29.00 Tool Interval
Packer	5.00			3820.00	
Blank Off Sub	1.00			3821.00	
Change Over Sub	1.00			3822.00	
Drill Pipe	31.00			3853.00	
Recorder	0.00	8958	Below	3853.00	
Perforations	1.00			3854.00	
Bullnose	3.00			3857.00	42.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



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FLUID SUMMARY

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2-9s-22w Graham,KS

PO Box 352
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Conner Unit #1

Job Ticket: 62416

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.02.22 @ 20:26:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 6.39 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 21 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GHOCM, 20%G, 40%O, 40%M	0.305
355.00	GO, 30%G, 70%O	4.451

Total Length: 417.00 ft Total Volume: 4.756 bbl

Num Fluid Samples: 0

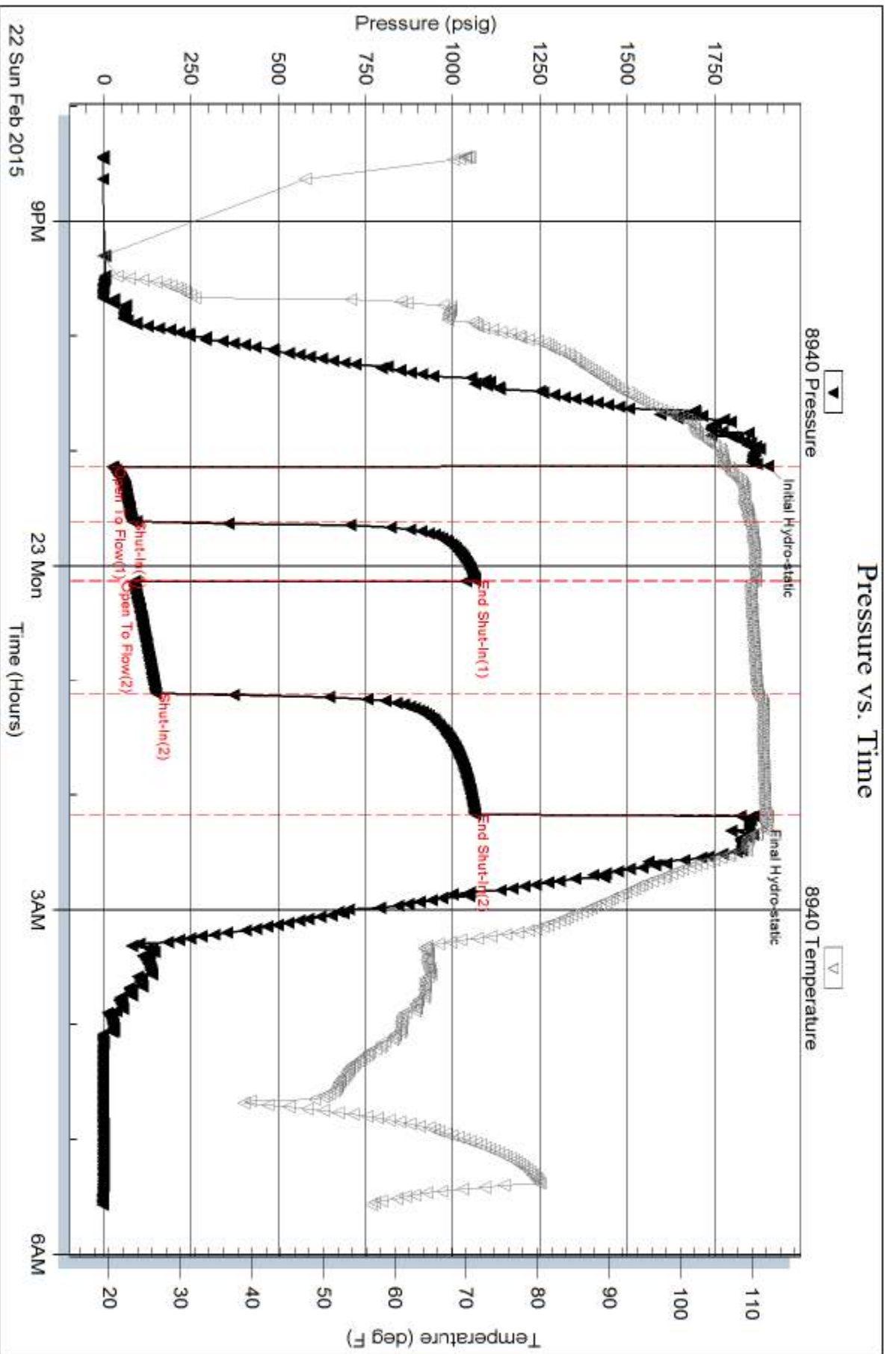
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

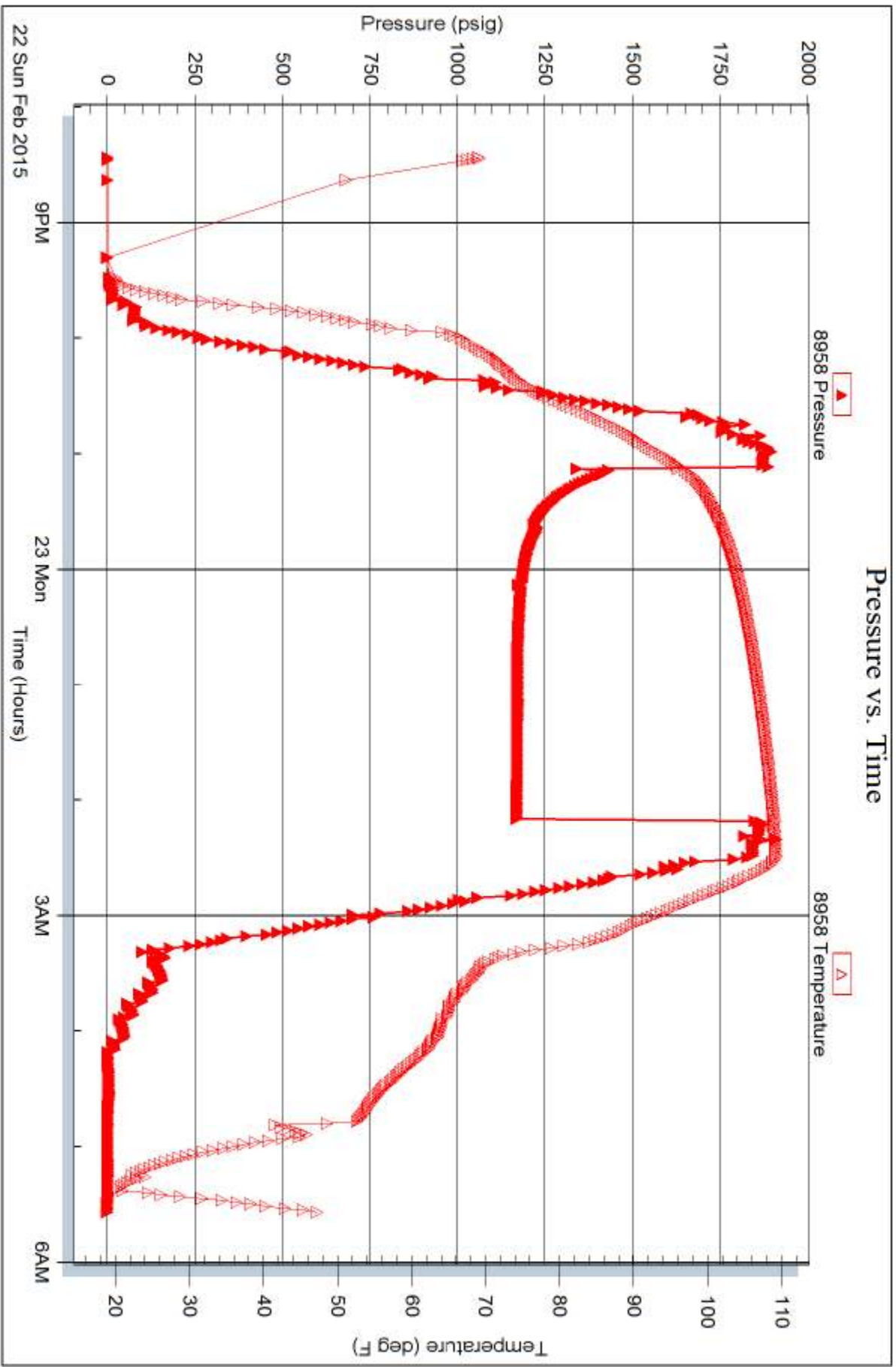


Serial #: 8958

Below (Straddle): Farmer Inc

Comer Unit #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62416

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