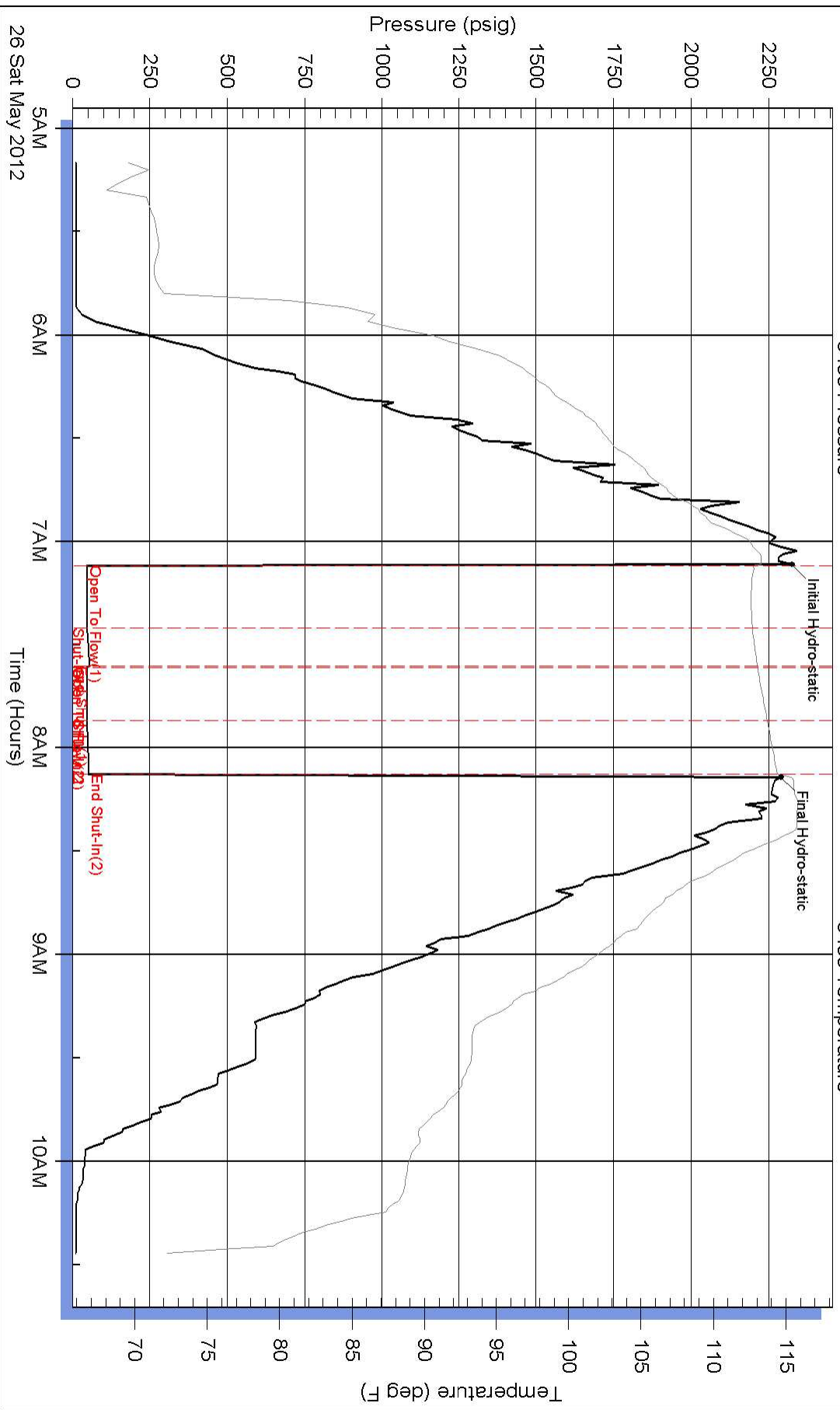
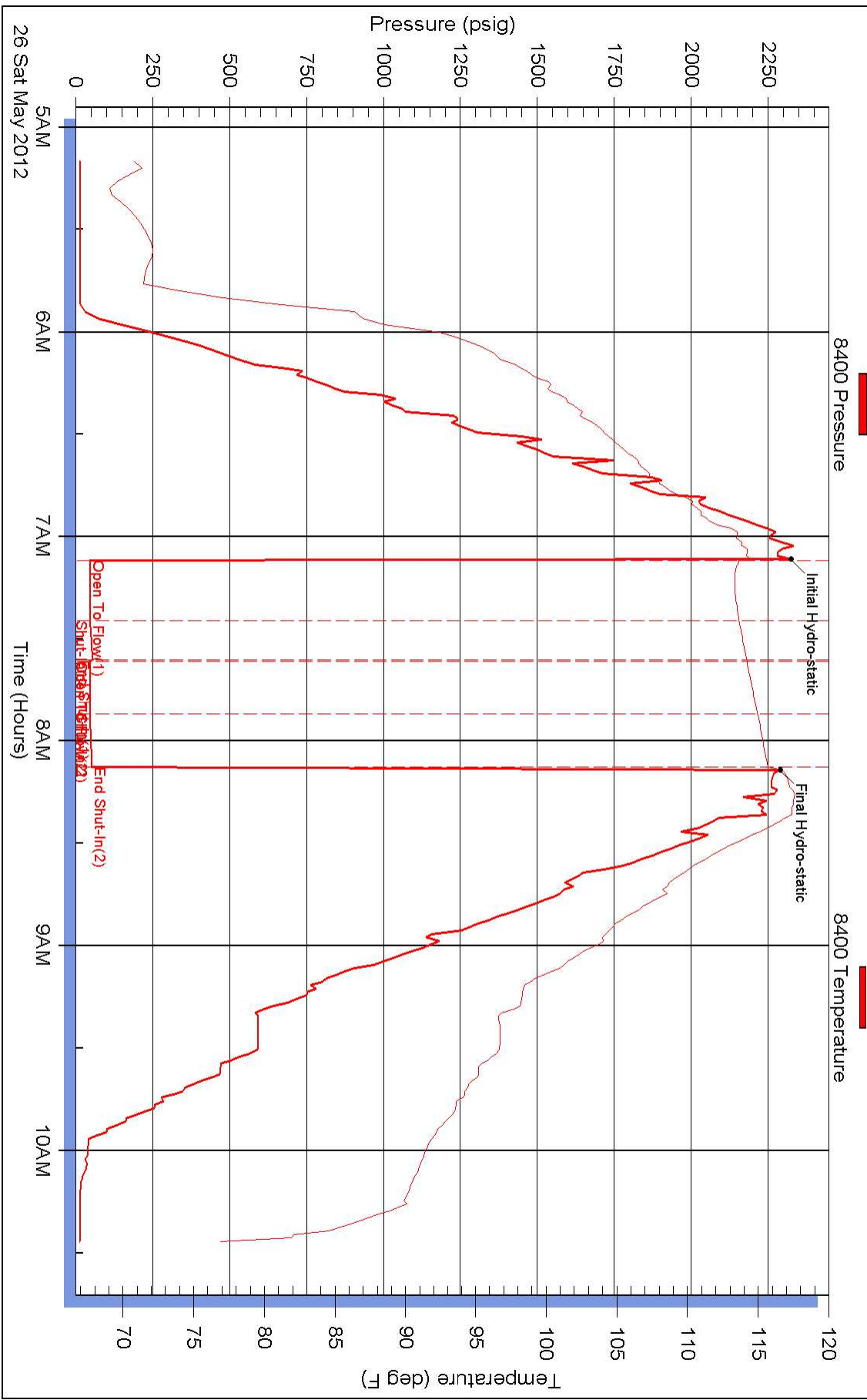


Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

FLUID SUMMARY

G.L. Allison Oil Operations Inc.

21-12s-32w-Logan

15 South East 30 Road Great Bend Kansas
67530

Younkin 21-B

Job Ticket: 17299

DST#: 3

ATTN: Kevin Bailey

Test Start: 2012.05.26 @ 05:09:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	Mudd 100%	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

TOOL DIAGRAM

G.L. Allison Oil Operations Inc.

21-12s-32w-Logan

15 South East 30 Road Great Bend Kansas
67530

Younkin 21-B

Job Ticket: 17299

DST#: 3

ATTN: Kevin Bailey

Test Start: 2012.05.26 @ 05:09:00

Tool Information

Drill Pipe:	Length: 4590.00 ft	Diameter: 3.80 inches	Volume: 64.39 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4590.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 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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Shut-In Tool	5.00			4567.00	
Hydraulic Tool	5.00			4572.00	
Jars	6.00			4578.00	
Safety Joint	2.00			4580.00	
Packer	5.00			4585.00	28.00 Bottom Of Top Packer
Packer	5.00			4590.00	
Anchor	33.00			4623.00	
Recorder	1.00	8400	Inside	4624.00	
Recorder	1.00	8405	Outside	4625.00	
Bull Plug	3.00			4628.00	38.00 Bottom Packers & Anchor
Total Tool Length:	66.00				



DRILL STEM TEST REPORT

G.L. Allison Oil Operations Inc.

21-12s-32w-Logan

15 South East 30 Road Great Bend Kansas
67530

Younkin 21-B

Job Ticket: 17299

DST#: 3

ATTN: Kevin Bailey

Test Start: 2012.05.26 @ 05:09:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:07:00

Time Test Ended: 10:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Scott City-55

Interval: 4590.00 ft (KB) To 5628.00 ft (KB) (TVD)

Reference Elevations: 3051.00 ft (KB)

Total Depth: 4628.00 ft (KB) (TVD)

3044.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8405 Outside

Press @ Run Depth: 52.18 psig @ 4625.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2012.05.26

End Date: 2012.05.26

Last Calib.: 2012.05.26

Start Time: 05:09:00

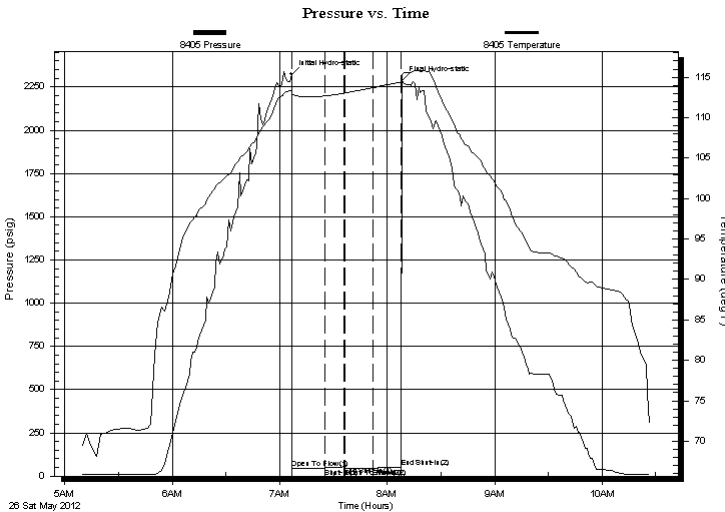
End Time: 10:27:00

Time On Btm: 2012.05.26 @ 07:06:30

Time Off Btm: 2012.05.26 @ 08:08:30

TEST COMMENT: 1st Open 15 minutes Weak surface blow then died off.
1st Shut in 15 minutes No blow back
2nd Open 15 minutes Very weak blow then died off.
2nd Shut in 15 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2323.78	113.30	Initial Hydro-static
1	46.14	112.67	Open To Flow (1)
19	46.94	112.69	Shut-In(1)
30	54.75	113.03	End Shut-In(1)
30	46.72	113.04	Open To Flow (2)
46	46.52	113.70	Shut-In(2)
61	52.18	114.40	End Shut-In(2)
62	2288.80	115.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mudd 100%	0.04

Gas Rates

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



DRILL STEM TEST REPORT

G.L. Allison Oil Operations Inc.

21-12s-32w-Logan

15 South East 30 Road Great Bend Kansas
67530

Younkin 21-B

Job Ticket: 17299

DST#: 3

ATTN: Kevin Bailey

Test Start: 2012.05.26 @ 05:09:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:07:00
 Time Test Ended: 10:27:00
 Interval: **4590.00 ft (KB) To 5628.00 ft (KB) (TVD)**
 Total Depth: 4628.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Scott City-55
 Reference Elevations: 3051.00 ft (KB)
 3044.00 ft (CF)
 KB to GR/CF: 7.00 ft

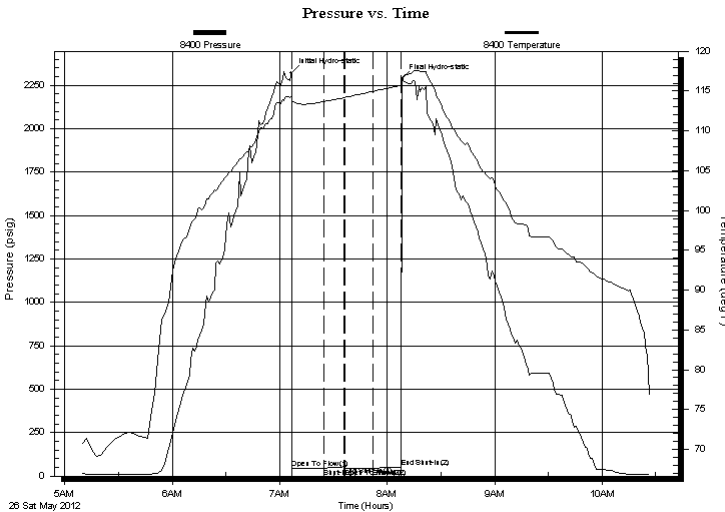
Serial #: 8400

Inside

Press @ Run Depth: 46.00 psig @ 4624.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2012.05.26 End Date: 2012.05.26 Last Calib.: 2012.05.26
 Start Time: 05:09:00 End Time: 10:27:00 Time On Btm: 2012.05.26 @ 07:06:30
 Time Off Btm: 2012.05.26 @ 08:08:30

TEST COMMENT: 1st Open 15 minutes Weak surface blow then died off.
 1st Shut in 15 minutes No blow back
 2nd Open 15 minutes Very weak blow then died off.
 2nd Shut in 15 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2323.02	114.47	Initial Hydro-static
1	45.88	113.65	Open To Flow (1)
18	45.97	113.64	Shut-In(1)
30	54.41	114.18	End Shut-In(1)
30	46.30	114.20	Open To Flow (2)
46	46.00	114.95	Shut-In(2)
61	51.65	115.68	End Shut-In(2)
62	2287.49	116.65	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
3.00	Mudd 100%	0.04

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



DRILL STEM TEST REPORT

Prepared For: **G.L. Allison Oil Operations Inc.**

15 South East 30 Road Great Bend Kansas
67530

ATTN: Kevin Bailey

Younkin 21-B

21-12s-32w-Logan

Start Date: 2012.05.26 @ 05:09:00

End Date: 2012.05.26 @ 10:27:00

Job Ticket #: 17299 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

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