



# 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: 17297

**DST#: 2**

ATTN: Kevin Bailey

Test Start: 2012.05.25 @ 01:37:00

### 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 in<sup>3</sup>

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 bbl
7.00	Mud 100%	0.098

Total Length: 7.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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**TOOL DIAGRAM**

G.L. Allison Oil Operations Inc.  
 15 South East 30 Road Great Bend Kansas  
 67530  
 ATTN: Kevin Bailey

**21-12s-32w-Logan**  
**Younklin 21-B**  
 Job Ticket: 17297 **DST#: 2**  
 Test Start: 2012.05.25 @ 01:37:00

**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: 85000.00 lb
			<u>Total Volume: 64.39 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 5500.00 lb
Depth to Top Packer:	4590.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			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	25.00			4615.00	
Recorder	1.00	8400	Inside	4616.00	
Recorder	1.00	8405	Outside	4617.00	
Bull Plug	3.00			4620.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>58.00</b>				



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**DST#: 2**

ATTN: Kevin Bailey

Test Start: 2012.05.25 @ 01:37:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:31:30

Time Test Ended: 07:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Scott City-55

**Interval: 4590.00 ft (KB) To 4620.00 ft (KB) (TVD)**

Reference Elevations: 3051.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

3044.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8400 Inside**

Press @ RunDepth: 51.83 psig @ 4616.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2012.05.25

End Date:

2012.05.25

Last Calib.:

2012.05.25

Start Time: 01:37:00

End Time:

07:32:00

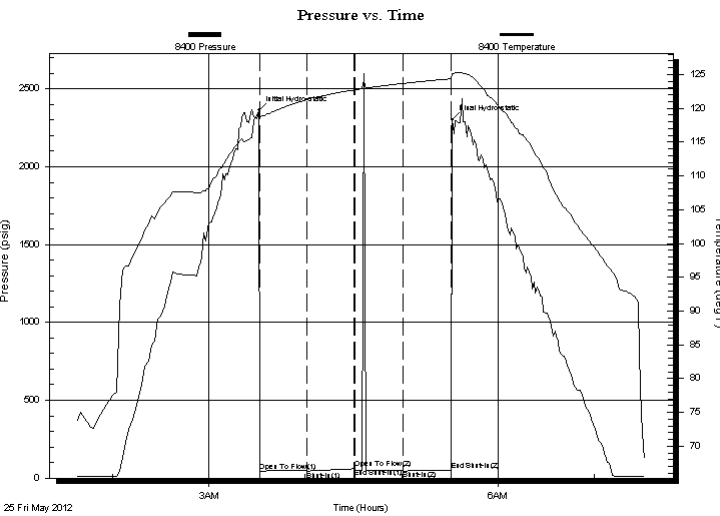
Time On Btm:

2012.05.25 @ 03:31:00

Time Off Btm:

2012.05.25 @ 05:31:30

**TEST COMMENT:** 1st Open 30 minutes Weak blow 1/2 inch. into the bucket of water  
1st Shut in 30 minutes No blow back  
2nd Open 30 minutes No blow. Flushed tool after 5 minutes. Very weak surface blow /then died off  
2nd Shut in 30 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2362.00	119.44	Initial Hydro-static
1	45.88	118.77	Open To Flow (1)
30	45.75	121.27	Shut-In(1)
60	60.82	122.70	End Shut-In(1)
60	61.03	122.72	Open To Flow (2)
90	47.57	123.66	Shut-In(2)
120	51.83	124.36	End Shut-In(2)
121	2300.47	125.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.10

## Gas Rates

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



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Job Ticket: 17297

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ATTN: Kevin Bailey

Test Start: 2012.05.25 @ 01:37:00

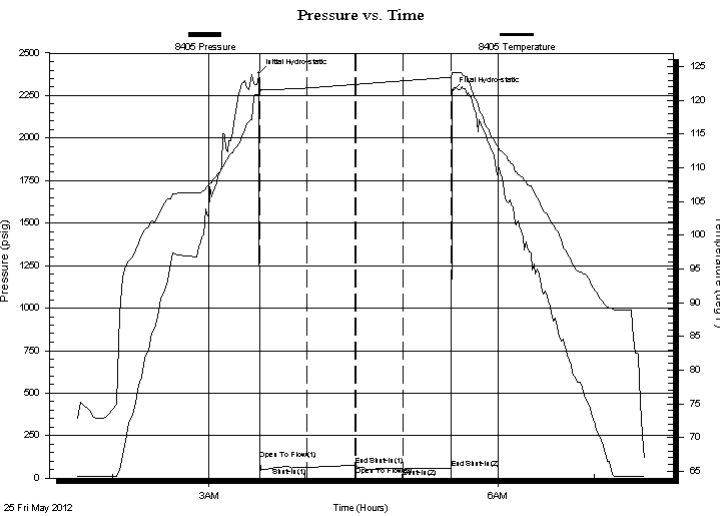
## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:31:30  
 Time Test Ended: 07:32:00  
 Interval: **4590.00 ft (KB) To 4620.00 ft (KB) (TVD)**  
 Total Depth: 4620.00 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 #: 8405 Outside

Press @ Run Depth: 56.90 psig @ 4617.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2012.05.25 End Date: 2012.05.25 Last Calib.: 2012.05.25  
 Start Time: 01:37:00 End Time: 07:32:00 Time On Btm: 2012.05.25 @ 03:31:00  
 Time Off Btm: 2012.05.25 @ 05:31:30

**TEST COMMENT:** 1st Open 30 minutes Weak blow 1/2 inch. into the bucket of water  
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 2nd Shut in 30 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2381.44	120.91	Initial Hydro-static
1	111.97	120.96	Open To Flow (1)
30	63.99	121.84	Shut-In(1)
60	75.89	122.38	End Shut-In(1)
61	66.87	122.38	Open To Flow (2)
90	56.90	122.91	Shut-In(2)
120	60.34	123.41	End Shut-In(2)
121	2274.74	124.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.10

## Gas Rates

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



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

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Start Date: 2012.05.25 @ 01:37:00

End Date: 2012.05.25 @ 07:32:00

Job Ticket #: 17297                      DST #: 2

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

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Younkin 21-B  
DST # 2  
Johnson  
2012.05.25