



DRILL STEM TEST REPORT

Prepared For: **G.L.Allison**

15 South East 30 Road
Great Bend Kansas 67530

ATTN: Kevin Bailey

Younkin 21 TATE

21-12s-32w-Logan

Start Date: 2012.09.07 @ 03:22:00

End Date: 2012.09.07 @ 11:04:30

Job Ticket #: 17267 DST #: 1

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

Printed: 2012.09.07 @ 23:25:33

G.L.Allison
21-12s-32w-Logan
Younkin 21 TATE
DST # 1
Johnson
2012.09.07



DRILL STEM TEST REPORT

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

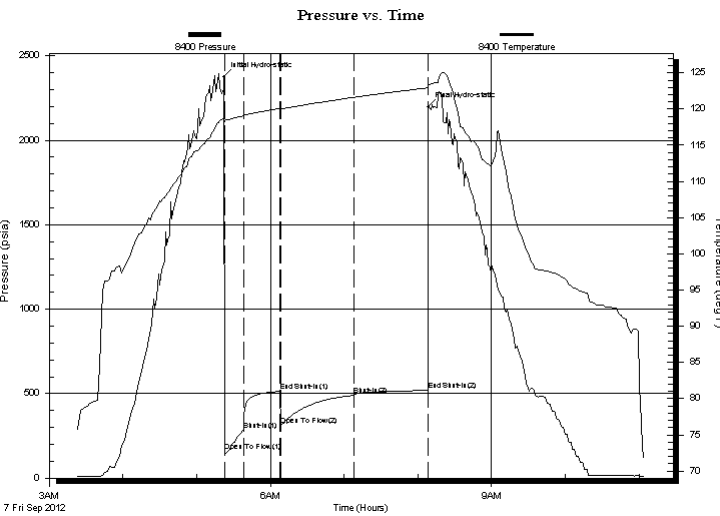
21-12s-32w-Logan
Younkin 21 TATE
 Job Ticket: 17267 **DST#: 1**
 Test Start: 2012.09.07 @ 03:22:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:22:30
 Time Test Ended: 11:04:30
 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-
 Reference Elevations: 3048.00 ft (KB)
 3041.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8400 Outside
 Press @ RunDepth: 489.72 psia @ 4617.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.07 End Date: 2012.09.07 Last Calib.: 2012.09.07
 Start Time: 03:22:00 End Time: 11:04:30 Time On Btm: 2012.09.07 @ 05:22:00
 Time Off Btm: 2012.09.07 @ 08:08:30

TEST COMMENT: 1st Open 15 Minutes Fair building blow blew bottom bucket 3.5 minutes.
 1st Shut in 30 Minutes No blow back
 2nd Open 60 Minutes Fair building blow blew bottom bucket 6 minutes.
 2nd Shut in 60 minutes No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2376.84	118.77	Initial Hydro-static
1	156.69	118.21	Open To Flow (1)
16	285.61	119.07	Shut-In(1)
46	513.71	120.08	End Shut-In(1)
46	315.57	120.00	Open To Flow (2)
106	489.72	121.60	Shut-In(2)
166	518.97	122.93	End Shut-In(2)
167	2198.98	123.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Very lightly oil spotted mud	3.48
0.00	Mud 90% Water 10%	0.00
761.00	Water 100%	10.67
0.00	Chlorides 59,000@52 degrees.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

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

21-12s-32w-Logan
Younklin 21 TATE
 Job Ticket: 17267 **DST#: 1**
 Test Start: 2012.09.07 @ 03:22:00

Tool Information

Drill Pipe:	Length: 4591.00 ft	Diameter: 3.80 inches	Volume: 64.40 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: 75000.00 lb
			<u>Total Volume: 64.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4590.00 ft			Final 62000.00 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	8405	Inside	4616.00	
Recorder	1.00	8400	Outside	4617.00	
Bull Plug	3.00			4620.00	30.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

21-12s-32w-Logan
Younkin 21 TATE
Job Ticket: 17267 **DST#: 1**
Test Start: 2012.09.07 @ 03:22:00

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:	60.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	9.40 in ³	Gas Cushion Type:			
Resistivity:	0.20 ohm.m	Gas Cushion Pressure:	psia		
Salinity:	2000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	Very lightly oil spotted mud	3.479
0.00	Mud 90% Water 10%	0.000
761.00	Water 100%	10.675
0.00	Chlorides 59,000@52 degrees.	0.000

Total Length: 1009.00 ft Total Volume: 14.154 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

