



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: 17298

DST#: 4

ATTN: Kevin Bailey

Test Start: 2012.05.27 @ 03:27:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mudd 100%	0.056

Total Length: 4.00 ft Total Volume: 0.056 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 4681.00 ft	Diameter: 3.80 inches	Volume: 65.66 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: 70000.00 lb
			<u>Total Volume: 65.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4680.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	43.00 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			4657.00	
Hydraulic Tool	5.00			4662.00	
Jars	6.00			4668.00	
Safety Joint	2.00			4670.00	
Packer	5.00			4675.00	28.00 Bottom Of Top Packer
Packer	5.00			4680.00	
Anchor	10.00			4690.00	
Recorder	1.00	8400	Inside	4691.00	
Recorder	1.00	8405	Outside	4692.00	
Bull Plug	3.00			4695.00	15.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



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Test Start: 2012.05.27 @ 03:27:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:13:30

Time Test Ended: 08:29:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Scott City

Interval: 4680.00 ft (KB) To 4695.00 ft (KB) (TVD)

Reference Elevations: 3051.00 ft (KB)

Total Depth: 4695.00 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: 641.17 psig @ 4692.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2012.05.27

End Date: 2012.05.27

Last Calib.: 2012.05.27

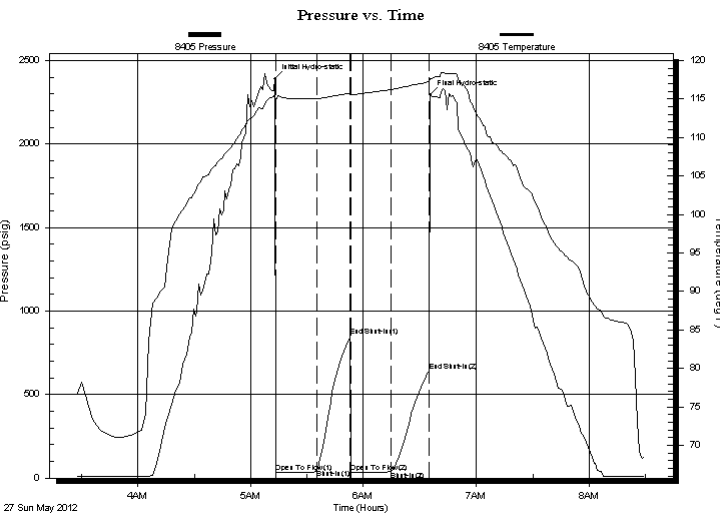
Start Time: 03:27:00

End Time: 08:29:30

Time On Btm: 2012.05.27 @ 05:13:00

Time Off Btm: 2012.05.27 @ 06:35:30

TEST COMMENT: 1st Open 20 minutes Very weak surface blow
1st Shut in 20 minutes No blow back
2nd Open 20 minutes Very weak blow then died off. Flushed tool no help
2nd Shut in 20 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2390.78	115.63	Initial Hydro-static
1	34.70	114.81	Open To Flow (1)
22	50.44	115.04	Shut-In(1)
40	852.13	115.76	End Shut-In(1)
41	35.89	115.58	Open To Flow (2)
62	38.95	116.24	Shut-In(2)
82	641.17	117.23	End Shut-In(2)
83	2294.75	117.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mudd 100%	0.06

Gas Rates

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



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Tester: Dustin Ellis

Unit No: 3315-Scott City

Interval: 4680.00 ft (KB) To 4695.00 ft (KB) (TVD)

Reference Elevations: 3051.00 ft (KB)

Total Depth: 4695.00 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: 44.98 psig @ 4691.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2012.05.27

End Date: 2012.05.27

Last Calib.: 2012.05.27

Start Time: 03:27:00

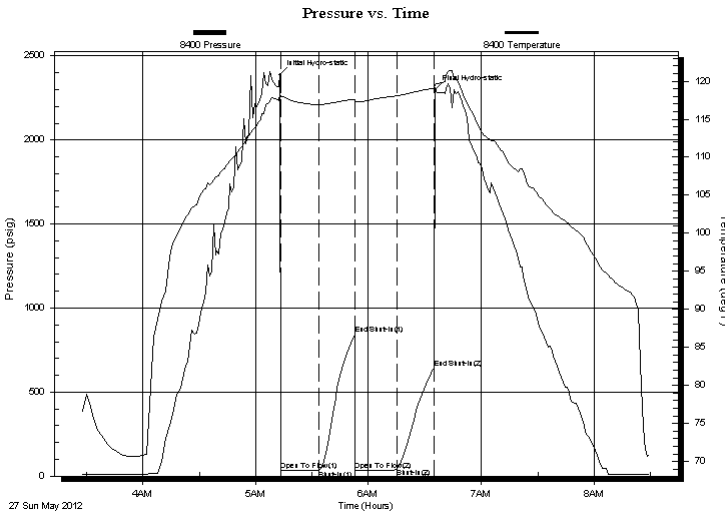
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PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2388.56	118.43	Initial Hydro-static
1	34.31	117.95	Open To Flow (1)
21	33.72	116.94	Shut-In(1)
40	842.77	117.62	End Shut-In(1)
40	35.56	117.14	Open To Flow (2)
62	44.98	118.06	Shut-In(2)
82	643.27	119.09	End Shut-In(2)
83	2300.35	119.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mudd 100%	0.06

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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Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
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