

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pratt Well Service, Inc.

21-3s-28w Decatur, KS

PO Box 847
Pratt, KS 67129

Betts #1-21

Job Ticket: 55904

DST#: 1

ATTN: Austin Garner

Test Start: 2014.08.07 @ 10:20:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:25:30

Time Test Ended: 18:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Donovan Baumann

Unit No: 66

Interval: **3615.00 ft (KB) To 3710.00 ft (KB) (TVD)**

Total Depth: 3710.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2704.00 ft (KB)

2691.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8653 Outside

Press@RunDepth: psig @ 3616.00 ft (KB)

Start Date: 2014.08.07

End Date:

2014.08.07

Capacity: 8000.00 psig

Last Calib.:

2014.08.07

Start Time: 10:21:00

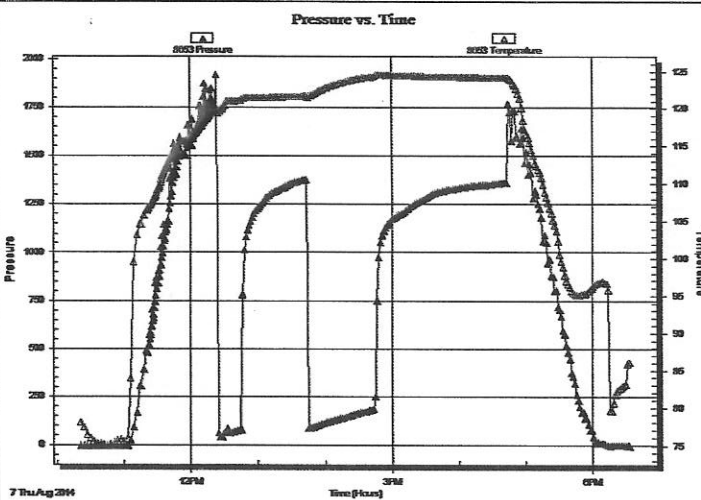
End Time:

18:33:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 20 - IF - Surface blow 1" built to 11" in 20 min
60 - ISI - No return
60 - FF - Weak surface blow built to BOB in 33 min.
120 - FSI - No return



PRESSURE SUMMARY

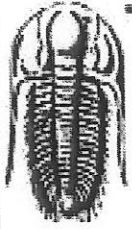
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OSMW - 15M - 85W - oil spots	0.88
63.00	OSMW - 10M - 90W - oil spots	0.88
189.00	OCM - 90M - 10o	2.65
40.00	WMCO - 20M - 15W - 65o	0.56

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3604.00 ft	Diameter: 3.80 inches	Volume: 50.55 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 50.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3615.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3588.00	
Shut In Tool	5.00			3593.00	
Hydraulic tool	5.00			3598.00	
Jars	5.00			3603.00	
Safety Joint	3.00			3606.00	
Packer	5.00			3611.00	28.00 Bottom Of Top Packer
Packer	4.00			3615.00	
Stubb	1.00			3616.00	
Recorder	0.00	8653	Outside	3616.00	
Recorder	0.00	8874	Inside	3616.00	
Perforations	24.00			3640.00	
Change Over Sub	1.00			3641.00	
Drill Pipe	63.00			3704.00	
Change Over Sub	1.00			3705.00	
Bullnose	5.00			3710.00	95.00 Bottom Packers & Anchor

Total Tool Length: 123.00