

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Haffner, Dan

18-9s-27w Sheridan, KS

RR 2 Box 49
Hoxie KS 67740

Haffner #5-18

Job Ticket: 53956

DST#: 1

ATTN: Richard Bell

Test Start: 2014.08.01 @ 10:30:00

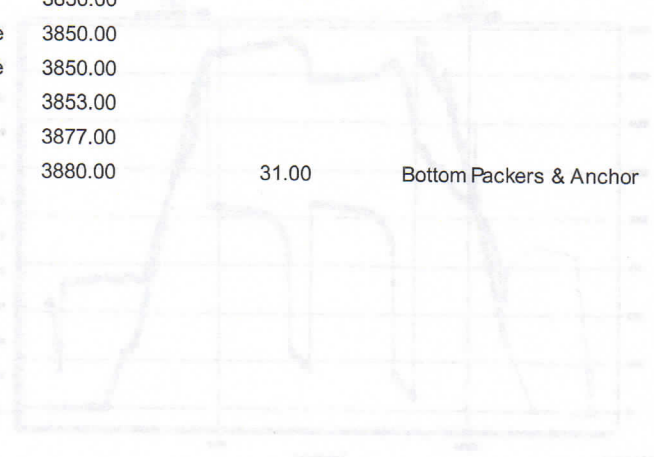
Tool Information

Drill Pipe:	Length: 3732.00 ft	Diameter: 3.80 inches	Volume: 52.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3849.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	51.00 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			3834.00	
Hydraulic tool	5.00			3839.00	
Packer	5.00			3844.00	20.00 Bottom Of Top Packer
Packer	5.00			3849.00	
Stubb	1.00			3850.00	
Recorder	0.00	8957	Inside	3850.00	
Recorder	0.00	8934	Outside	3850.00	
Perforations	3.00			3853.00	
Perforations	24.00			3877.00	
Bullnose	3.00			3880.00	31.00 Bottom Packers & Anchor
Total Tool Length:	51.00				

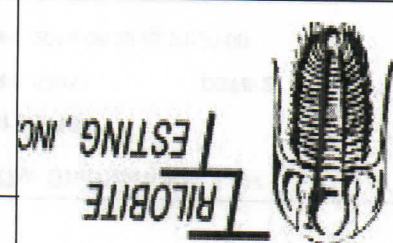


DRILL STEM TEST REPORT

18-9s-27w Sheridan, KS
Haffner #5-18
 Job Ticket: 53957
 DST#: 2

Haffner, Dan
 RR 2 Box 49
 Hoxie KS 67740
 ATTN: Richard Bell

Test Start: 2014.08.02 @ 21:20:00

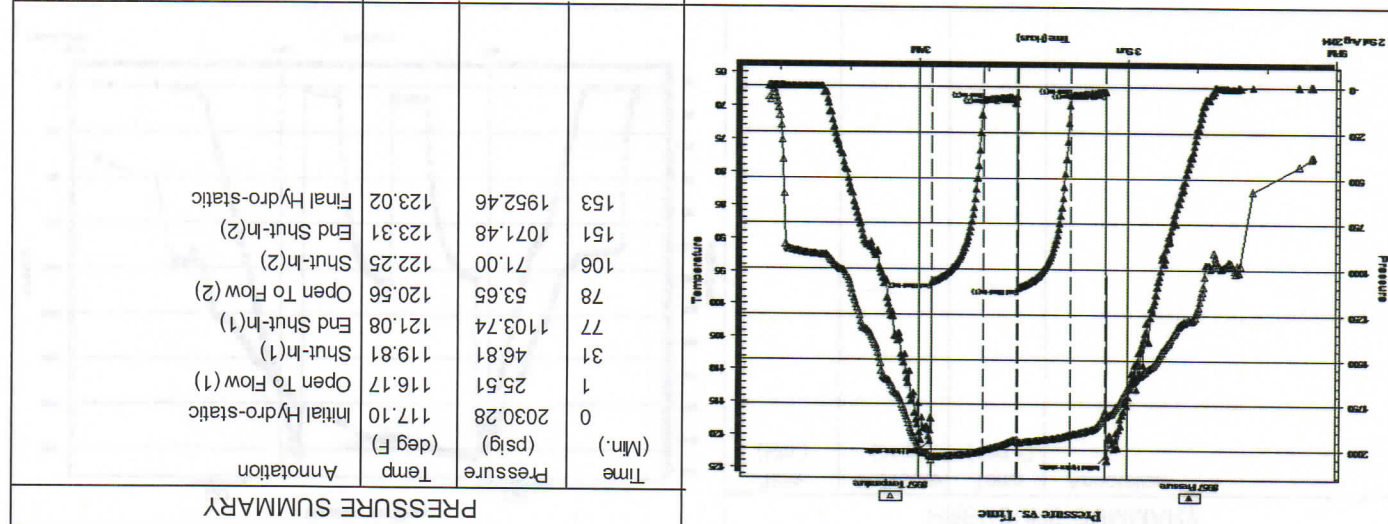


GENERAL INFORMATION:

Formation: KC"H-L"
 Deviated: No Whipsstock: (ft) (KB)
 Time Tool Opened: 00:19:00
 Time Test Ended: 05:09:45
 Interval: 3999.00 ft (KB) To 4140.00 ft (KB) (TVD)
 Total Depth: 4140.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 2754.00 ft (KB)
 2746.00 ft (CF)
 8.00 ft
 KB to GR/CF:

Serial #: 8957 Inside
 Press@RunDepth: 71.00 psig @ 4000.00 ft (KB)
 Start Date: 2014.08.02 End Date: 2014.08.03
 Start Time: 21:20:05 End Time: 05:09:44
 Capacity: 8000.00 psig
 Last Callb.: 2014.08.03
 Time On Btm: 2014.08.03 @ 00:18:30
 Time Off Btm: 2014.08.03 @ 02:51:00

TEST COMMENT: IF-2 1/8" blow
 ISH-No blow
 FF-No blow
 FSH-No blow



Recovery	
Length (ft)	60.00
Description	MCW 30%M 70%W
Volume (bbl)	0.30
	OS Mud
	20.00
* Recovery from multiple tests	

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