



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Co.**

10500 E Berkeley SQ Pkwy
STE 100 Wichita Kansas 67206

ATTN: Derek Patterson

Brooks 1-19

19-05s-22w-Norton

Start Date: 2013.08.25 @ 08:25:00

End Date: 2013.08.25 @ 14:18:30

Job Ticket #: 17550 DST #: 3

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

Printed: 2013.08.25 @ 12:40:27



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 STE 100 Wichita Kansas 67206
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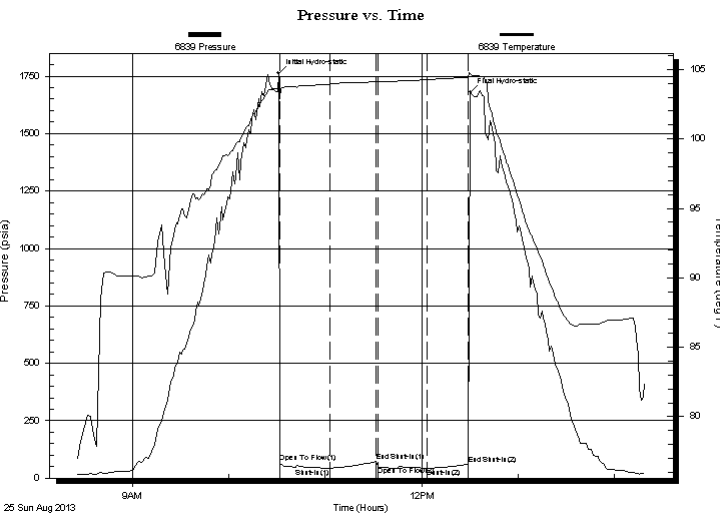
19-05s-22w-Norton
Brooks 1-19
 Job Ticket: 17550 **DST#: 3**
 Test Start: 2013.08.25 @ 08:25:00

GENERAL INFORMATION:

Formation: **Lansing-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:31:30
 Time Test Ended: 14:18:30
Interval: 3464.00 ft (KB) To 3484.00 ft (KB) (TVD)
 Total Depth: 3484.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Hays-236
 Reference Elevations: 2226.00 ft (KB)
 2217.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6839 Outside
 Press @ RunDepth: 44.75 psia @ 3481.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.08.25 End Date: 2013.08.25 Last Calib.: 2013.08.25
 Start Time: 08:25:00 End Time: 14:18:30 Time On Btm: 2013.08.25 @ 10:31:00
 Time Off Btm: 2013.08.25 @ 12:30:00

TEST COMMENT: 1st Open 30 minutes Weak surface blow for 2 minutes then died off flushed tool no help.
 1st Shut in 30 minutes No blow back
 2nd Open 30 minutes Dead flushed tool no help.
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1762.97	103.66	Initial Hydro-static
1	69.40	102.92	Open To Flow (1)
32	44.28	103.95	Shut-In(1)
61	72.12	104.11	End Shut-In(1)
62	51.24	104.11	Open To Flow (2)
92	44.75	104.26	Shut-In(2)
118	60.97	104.42	End Shut-In(2)
119	1679.08	104.69	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	Oil cut mud 5% Oil 95% Mud	0.01

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3234.00 ft	Diameter: 3.80 inches	Volume: 45.36 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: 234.79 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 46.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.79 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3464.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 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			3441.00	
Hydraulic Tool	5.00			3446.00	
Jars	6.00			3452.00	
Safety Joint	2.00			3454.00	
Packer	5.00			3459.00	28.00 Bottom Of Top Packer
Packer	5.00			3464.00	
Anchor	15.00			3479.00	
Recorder	1.00	8524	Inside	3480.00	
Recorder	1.00	6839	Outside	3481.00	
Bull Plug	3.00			3484.00	20.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



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FLUID SUMMARY

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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:	5.80 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	1000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Oil cut mud 5%Oil 95% Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

