



**Company: Hartman Oil  
Company, Inc.  
Lease: Krug #2-14**

SEC: 14 TWN: 10S RNG: 33W  
County: THOMAS  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 10  
Elevation: 3148 EGL  
Field Name: Nollette East  
Pool: Infield  
Job Number: 354  
API #: 15-193-21045

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
June  
**06**  
2019

**DST #3    Formation: LKC "K"    Test Interval: 4297 -    Total Depth: 4325'**  
**4325'**  
Time On: 23:38 06/06    Time Off: 05:56 06/07  
Time On Bottom: 01:30 06/07    Time Off Bottom: 04:30 06/07

Electronic Volume  
Estimate:  
34'

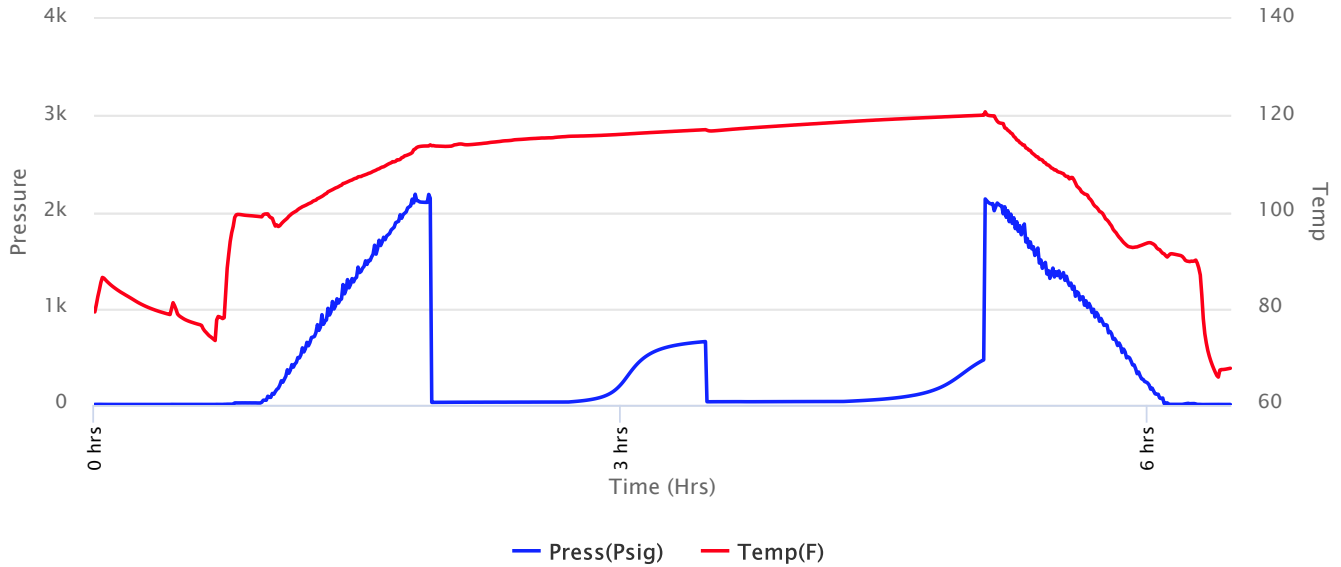
1st Open  
Minutes: 45  
Current Reading:  
1" at 45 min  
Max Reading: 1"

1st Close  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

2nd Open  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

2nd Close  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

Inside Recorder





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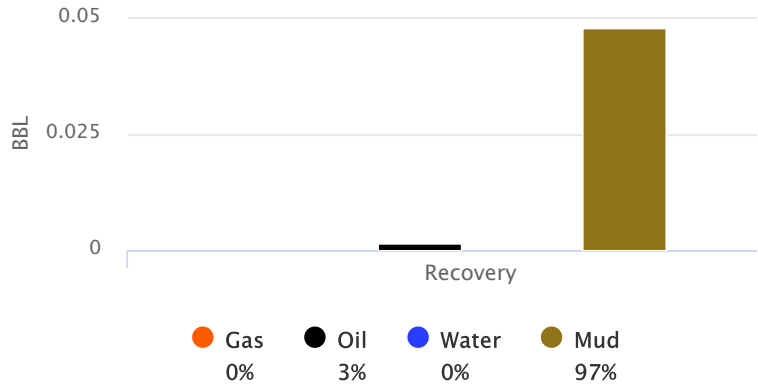
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.0492	SLOCM	0	3	0	97

Total Recovered: 10 ft  
 Total Barrels Recovered: 0.0492

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	2100	PSI
Initial Flow	26 to 30	PSI
<b>Initial Closed in Pressure</b>	<b>655</b>	<b>PSI</b>
Final Flow Pressure	33 to 36	PSI
<b>Final Closed in Pressure</b>	<b>459</b>	<b>PSI</b>
Final Hydrostatic Pressure	2082	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	30.0	%

**Recovery at a glance**



GIP cubic foot volume: 0



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**BUCKET MEASUREMENT:**

1st Open: Surface blow built to 1" over 45 min.  
1st Close: No Return  
2nd Open: No Blow  
2nd Close: No Return

**REMARKS:**

Tool Sample: 0% Gas 5% Oil 0% Water 95% Mud



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**Down Hole Makeup**

<b>Heads Up:</b> 15.9 FT	<b>Packer 1:</b> 4291.5 FT
<b>Drill Pipe:</b> 4158.42 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4297 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4280.92 FT
<b>Collars:</b> 121.41 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4299 FT
<b>Test Tool:</b> 34.07 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 28	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 27 FT <i>4 1/2-FH</i>	



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**Mud Properties**

**Mud Type: Chem      Weight: 9.2      Viscosity: 54      Filtrate: 7.2      Chlorides: 2500 ppm**



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### Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D