



# Company: Hupfer Operating, Inc

## Lease: Burmeister "A" #A-2

SEC: 33 TWN: 19S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

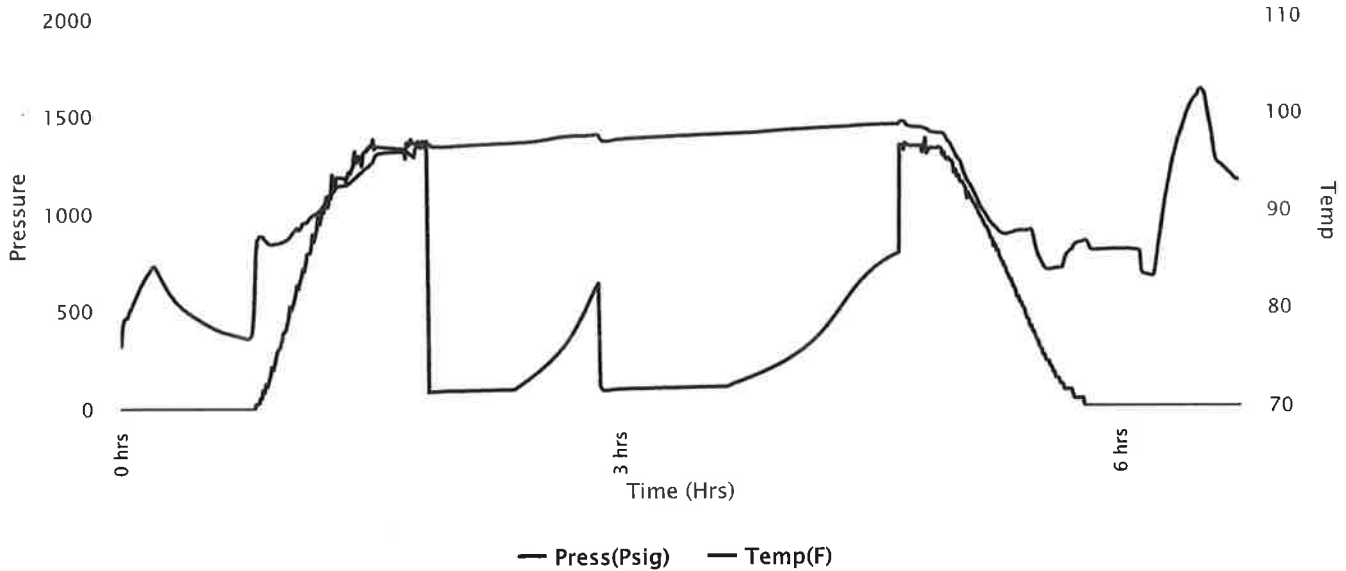
**DATE**  
August  
**17**  
2018

**DST #1**      **Formation:** Toronto/Douglas Sand      **Test Interval:** 2914 - 3000'      **Total Depth:** 3000'  
Time On: 10:05 08/17      Time Off: 16:38 08/17  
Time On Bottom: 11:53 08/17      Time Off Bottom: 14:38 08/17

Electronic Volume Estimate:  
**648'**

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 30	Minutes: 45	Minutes: 60
Current Reading: 23.3" at 30 min	Current Reading: 0" at 30 min	Current Reading: 55.6" at 45 min	Current Reading: 0" at 60 min
Max Reading: 23.3"	Max Reading: 0"	Max Reading: 55.6"	Max Reading: 0"

Inside Recorder





**Company: Hupfer Operating, Inc**

**Lease: Burmeister "A" #A-2**

SEC: 33 TWN: 19S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Discovery Drilling Company, Inc. - Rig 2  
 Elevation: 1778 EGL  
 Field Name: Chase-Silica  
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**Operation:**  
 Test Complete

**DATE**  
 August  
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 2018

**DST #1**      **Formation:** Toronto/Douglas Sand      **Test Interval:** 2914 - 3000'      **Total Depth:** 3000'  
 Time On: 10:05 08/17      Time Off: 16:38 08/17  
 Time On Bottom: 11:53 08/17      Time Off Bottom: 14:38 08/17

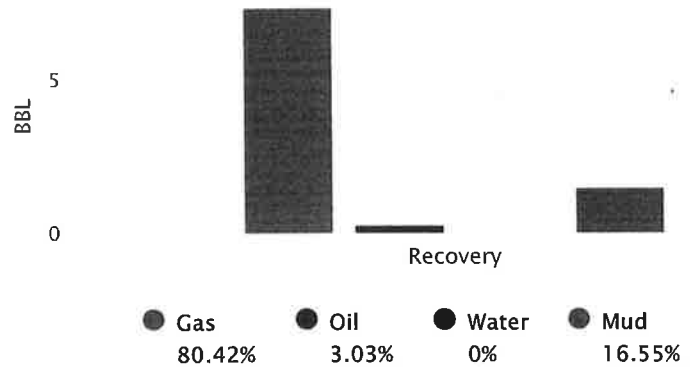
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
585	7.0526463	G	100	0	0	0
240	2.1432963	SLOCSLGCM	16	13	0	71

Total Recovered: 825 ft  
 Total Barrels Recovered: 9.1959426

**Reversed Out**  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1290	PSI
Initial Flow	89 to 101	PSI
<b>Initial Closed in Pressure</b>	<b>645</b>	<b>PSI</b>
Final Flow Pressure	98 to 115	PSI
<b>Final Closed in Pressure</b>	<b>795</b>	<b>PSI</b>
Final Hydrostatic Pressure	1279	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	0.0	%



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Company, Inc. - Rig 2  
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Test Complete

**DATE**  
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2018

<b>DST #1</b>	<b>Formation:</b> Toronto/Douglas Sand	<b>Test Interval: 2914 - 3000'</b>	<b>Total Depth: 3000'</b>
	Time On: 10:05 08/17	Time Off: 16:38 08/17	
	Time On Bottom: 11:53 08/17	Time Off Bottom: 14:38 08/17	

**BUCKET MEASUREMENT:**

1st Open: Surface blow building. BOB in 18 mins.  
1st Close: No blow back.  
2nd Open: 2 in. blow building. BOB in 3 1/2 mins.  
2nd Close: No blow back.

**REMARKS:**

Tool slid 10-12 ft. when setting the tool & kept losing fluid.  
Tool Sample: 0% Gas 31% Oil 0% Water 69% Mud



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Job Number: 216

**Operation:**  
Test Complete

**DATE**  
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**17**  
2018

**DST #1**      **Formation:**      **Test Interval: 2914 -**      **Total Depth: 3000'**  
                         **Toronto/Douglas**      **3000'**  
                         **Sand**  
Time On: 10:05 08/17      Time Off: 16:38 08/17  
Time On Bottom: 11:53 08/17      Time Off Bottom: 14:38 08/17

### Down Hole Makeup

<b>Heads Up:</b> 22.18 FT	<b>Packer 1:</b> 2908.63 FT
<b>Drill Pipe:</b> 2723.88 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 2913.63 FT
<b>Weight Pipe:</b> 186.77 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 2900.63 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 2983 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 86.37	<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> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 62.37 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 18 FT <i>4 1/2-FH</i>	



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Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
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**17**  
2018

**DST #1**      **Formation:**      **Test Interval: 2914 -**      **Total Depth: 3000'**  
Toronto/Douglas      3000'  
Sand  
Time On: 10:05 08/17      Time Off: 16:38 08/17  
Time On Bottom: 11:53 08/17      Time Off Bottom: 14:38 08/17

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 8.6      **Viscosity:** 48      **Filtrate:** 8.6      **Chlorides:** 5,000 ppm



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Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
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**18**  
2018

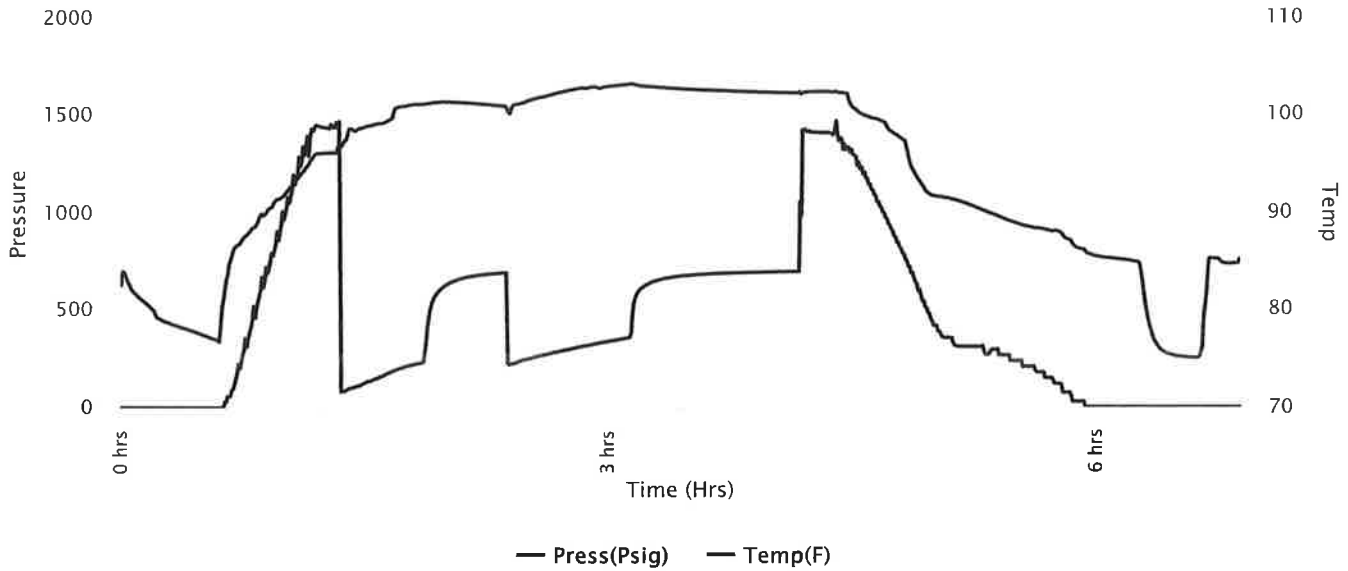
**DST #2    Formation: Lans "A-F"    Test Interval: 3045 - 3136'    Total Depth: 3136'**

Time On: 02:32 08/18    Time Off: 09:15 08/18  
Time On Bottom: 03:51 08/18    Time Off Bottom: 06:36 08/18

Electronic Volume Estimate:  
2958'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 30	Minutes: 45	Minutes: 60
Current Reading: 354.1" at 30 min	Current Reading: 1.4" at 30 min	Current Reading: 216.8" at 45 min	Current Reading: 52.2" at 60 min
Max Reading: 354.1"	Max Reading: 1.4"	Max Reading: 216.8"	Max Reading: 52.2"

Inside Recorder





**Company: Hupfer Operating, Inc**

**Lease: Burmeister "A" #A-2**

SEC: 33 TWN: 19S RNG: 11W  
 County: BARTON  
 State: Kansas  
 Drilling Contractor: Discovery Drilling Company, Inc. - Rig 2  
 Elevation: 1778 EGL  
 Field Name: Chase-Silica  
 Pool: Infield  
 Job Number: 216

**Operation:**  
 Test Complete

**DATE**  
 August  
**18**  
 2018

**DST #2**      **Formation: Lans "A-F"**      **Test Interval: 3045 - 3136'**      **Total Depth: 3136'**  
 Time On: 02:32 08/18      Time Off: 09:15 08/18  
 Time On Bottom: 03:51 08/18      Time Off Bottom: 06:36 08/18

Recovered

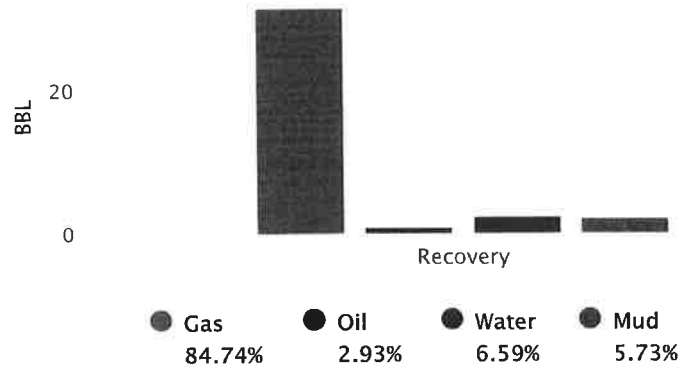
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
2265	30.9590463	G	100	0	0	0
10	0.0742	M (trace oil)	0	.1	0	99.9
185	1.3727	SLGCSLWCHMCO	3	53	8	36
310	3.1393963	SLOCSLWCHGCM	33	10	17	40
250	2.2855963	SLGCSLOCSLMCW	1	3	81	15

Total Recovered: 3020 ft

Total Barrels Recovered: 37.8309389

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1442	PSI
Initial Flow	84 to 236	PSI
<b>Initial Closed in Pressure</b>	<b>696</b>	<b>PSI</b>
Final Flow Pressure	227 to 362	PSI
<b>Final Closed in Pressure</b>	<b>700</b>	<b>PSI</b>
Final Hydrostatic Pressure	1432	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	0.0	%



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Job Number: 216

**Operation:**  
Test Complete

**DATE**  
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2018

**DST #2      Formation: Lans "A-F"      Test Interval: 3045 - 3136'      Total Depth: 3136'**  
Time On: 02:32 08/18      Time Off: 09:15 08/18  
Time On Bottom: 03:51 08/18      Time Off Bottom: 06:36 08/18

**BUCKET MEASUREMENT:**

1st Open: 3 1/2 in. blow building. BOB in 1 1/2 mins.  
1st Close: 1 in. blow back.  
2nd Open: Surface blow building. BOB in 4 mins..  
2nd Close: BOB blow back 4 1/2 mins. after bled off (20 mins.)

**REMARKS:**

Gas to surface 24 1/2 mins. into final shut-in period.  
Tool Sample: 0% Gas 2% Oil 95% Water 3% Mud  
Ph: 7.0  
Measured RW: .10 @ 74 degrees °F  
RW at Formation Temp: 0.073 @ 104 °F  
Chlorides: 72,000 ppm





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Pool: Infield  
Job Number: 216

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Test Complete

**DATE**  
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2018

**DST #2**      **Formation: Lans "A-F"**      **Test Interval: 3045 - 3136'**      **Total Depth: 3136'**  
Time On: 02:32 08/18      Time Off: 09:15 08/18  
Time On Bottom: 03:51 08/18      Time Off Bottom: 06:36 08/18

### Down Hole Makeup

**Heads Up:** 16.18 FT  
**Drill Pipe:** 2848.88 FT  
*ID-3 1/2*  
**Weight Pipe:** 186.77 FT  
*ID-2 7/8*  
**Collars:** 0 FT  
*ID-2 1/4*  
**Test Tool:** 26.16 FT  
*ID-3 1/2-FH*

**Packer 1:** 3039.63 FT  
**Packer 2:** 3044.63 FT  
**Top Recorder:** 3031.63 FT  
**Bottom Recorder:** 3114 FT  
**Well Bore Size:** 7 7/8  
**Surface Choke:** 1"  
**Bottom Choke:** 5/8"

**Total Anchor:** 91.37  
**Anchor Makeup**

**Packer Sub:** 1 FT  
**Perforations: (top):** 3 FT  
*4 1/2-FH*  
**Change Over:** 1 FT  
**Drill Pipe: (in anchor):** 62.37 FT  
*ID-3 1/2*  
**Change Over:** 1 FT  
**Perforations: (below):** 23 FT  
*4 1/2-FH*



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Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
August  
**18**  
2018

**DST #2 Formation: Lans "A-F" Test Interval: 3045 - 3136' Total Depth: 3136'**  
Time On: 02:32 08/18 Time Off: 09:15 08/18  
Time On Bottom: 03:51 08/18 Time Off Bottom: 06:36 08/18

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 8.6      **Viscosity:** 48      **Filtrate:** 8.8      **Chlorides:** 5,000 ppm



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SEC: 33 TWN: 19S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
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**19**  
2018

**DST #3    Formation: Arbuckle    Test Interval: 3303 - 3345'    Total Depth: 3345'**

Time On: 05:22 08/19    Time Off: 11:57 08/19  
Time On Bottom: 07:05 08/19    Time Off Bottom: 09:50 08/19

Electronic Volume Estimate:  
51'

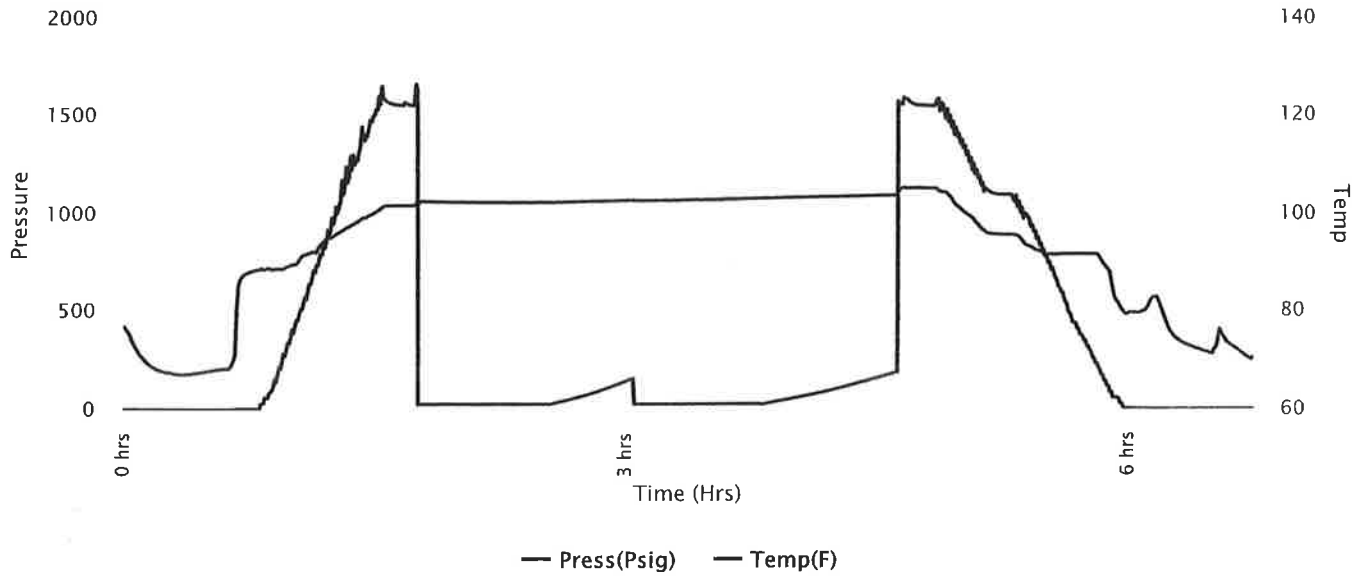
1st Open  
Minutes: 45  
Current Reading:  
3.2" at 45 min  
Max Reading: 3.2"

1st Close  
Minutes: 30  
Current Reading:  
0" at 30 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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## Lease: Burmeister "A" #A-2

SEC: 33 TWN: 19S RNG: 11W ,  
County: BARTON  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
August  
**19**  
2018

**DST #3**    **Formation: Arbuckle**    **Test Interval: 3303 - 3345'**    **Total Depth: 3345'**  
Time On: 05:22 08/19    Time Off: 11:57 08/19  
Time On Bottom: 07:05 08/19    Time Off Bottom: 09:50 08/19

### Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
30	0.2226	M (trace oil)	0	.5	0	99.5

Total Recovered: 30 ft  
Total Barrels Recovered: 0.2226

Reversed Out  
NO

### Recovery at a glance

Initial Hydrostatic Pressure	1560	PSI
Initial Flow	30 to 33	PSI
<b>Initial Closed in Pressure</b>	<b>164</b>	<b>PSI</b>
Final Flow Pressure	34 to 34	PSI
<b>Final Closed in Pressure</b>	<b>195</b>	<b>PSI</b>
Final Hydrostatic Pressure	1559	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.0	%

BBL  
0.2  
0.1  
0

Recovery

● Gas 0%    ● Oil 0.5%    ● Water 0%    ● Mud 99.5%





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County: BARTON  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**

Test Complete

**DATE**

August

**19**

2018

**DST #3      Formation: Arbuckle      Test Interval: 3303 -      Total Depth: 3345'**  
**3345'**

Time On: 05:22 08/19

Time Off: 11:57 08/19

Time On Bottom: 07:05 08/19      Time Off Bottom: 09:50 08/19

**BUCKET MEASUREMENT:**

1st Open: 2 in. blow building to a 2 3/4 in. blow.

1st Close: No blow back.

2nd Open: Surface blow.

2nd Close: No blow back.

**REMARKS:**

Tool slid about 5 ft. when setting the tool.

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud



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County: BARTON  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
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**DST #3**      **Formation: Arbuckle**      **Test Interval: 3303 - 3345'**      **Total Depth: 3345'**  
Time On: 05:22 08/19      Time Off: 11:57 08/19  
Time On Bottom: 07:05 08/19      Time Off Bottom: 09:50 08/19

### Down Hole Makeup

<b>Heads Up:</b> 8.3300000000002 FT	<b>Packer 1:</b> 3298 FT
<b>Drill Pipe:</b> 3099.4 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3303 FT
<b>Weight Pipe:</b> 186.77 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3290 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3305 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 42	<b>Surface Choke:</b> 1"
<u>Anchor Makeup</u>	<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> 41 FT <i>4 1/2-FH</i>	



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Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**

Test Complete

**DATE**

August

**19**

2018

**DST #3    Formation: Arbuckle    Test Interval: 3303 -    Total Depth: 3345'**  
**3345'**

Time On: 05:22 08/19

Time Off: 11:57 08/19

Time On Bottom: 07:05 08/19    Time Off Bottom: 09:50 08/19

**Mud Properties**

**Mud Type:** Chemical

**Weight:** 9.0

**Viscosity:** 44

**Filtrate:** 10.4

**Chlorides:** 8,000 ppm



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Job Number: 216

**Operation:**  
Test Complete

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**DST #4    Formation: Arbuckle    Test Interval: 3303 - 3355'    Total Depth: 3355'**

Time On: 19:25 08/19    Time Off: 00:54 08/20  
Time On Bottom: 21:06 08/19    Time Off Bottom: 23:21 08/19

Electronic Volume Estimate:  
37'

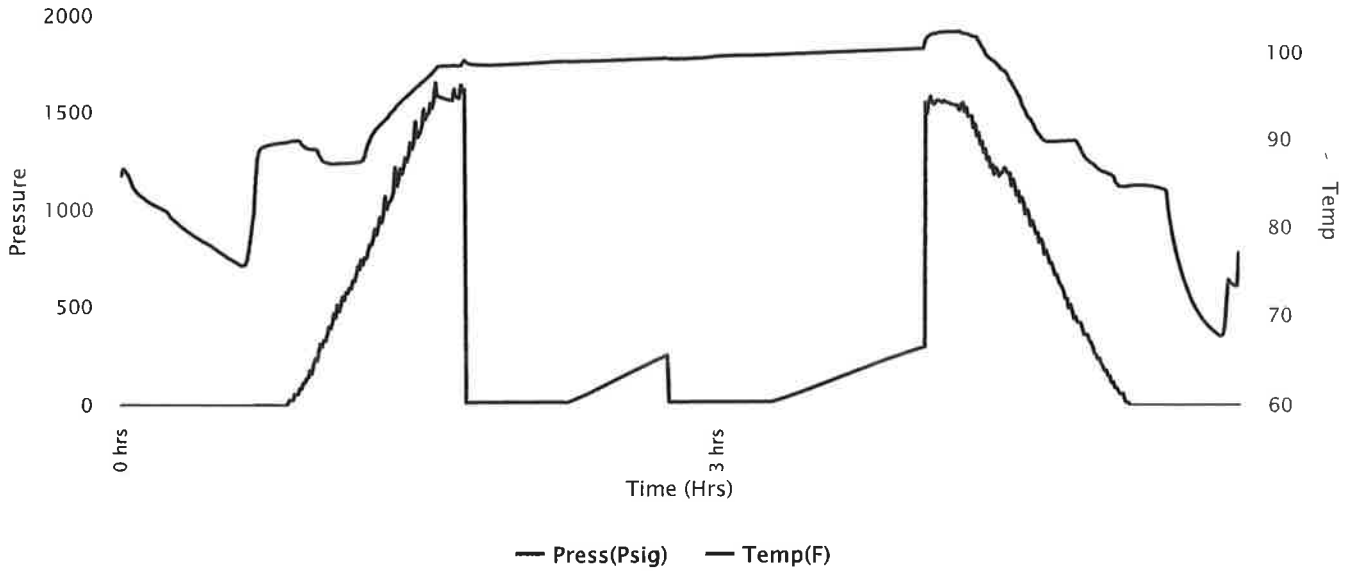
1st Open  
Minutes: 30  
Current Reading:  
2.3" at 30 min  
Max Reading: 2.3"

1st Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

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

Inside Recorder







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State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
August  
**19**  
2018

**DST #4    Formation: Arbuckle    Test Interval: 3303 - 3355'    Total Depth: 3355'**

Time On: 19:25 08/19    Time Off: 00:54 08/20  
Time On Bottom: 21:06 08/19    Time Off Bottom: 23:21 08/19

Recovered

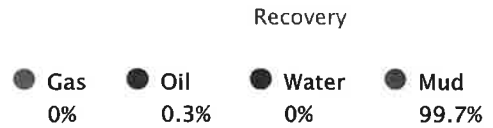
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
20	0.1484	M (trace oil)	0	.3	0	99.7

Total Recovered: 20 ft  
Total Barrels Recovered: 0.1484

**Reversed Out**  
NO

### Recovery at a glance

Initial Hydrostatic Pressure	1574	PSI	0.1
Initial Flow	20 to 23	PSI	BBL
<b>Initial Closed in Pressure</b>	<b>266</b>	<b>PSI</b>	
Final Flow Pressure	24 to 26	PSI	
<b>Final Closed in Pressure</b>	<b>305</b>	<b>PSI</b>	0
Final Hydrostatic Pressure	1571	PSI	
Temperature	101	°F	
Pressure Change Initial Close / Final Close	0.0	%	





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Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
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**19**  
2018

**DST #4      Formation: Arbuckle      Test Interval: 3303 -      Total Depth: 3355'**  
**3355'**

Time On: 19:25 08/19      Time Off: 00:54 08/20  
Time On Bottom: 21:06 08/19      Time Off Bottom: 23:21 08/19

**BUCKET MEASUREMENT:**

1st Open: 1 in. blow building to a 2 in. blow.  
1st Close: No blow back.  
2nd Open: Surface blow.  
2nd Close: No blow back.

**REMARKS:**

Tool slid 2-3 ft. when setting the tool.  
Tool Sample: 0% Gas 3% Oil 0% Water 97% Mud



# Company: Hupfer Operating, Inc

## Lease: Burmeister "A" #A-2

SEC: 33 TWN: 19S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
August  
**19**  
2018

**DST #4**    **Formation: Arbuckle**    **Test Interval: 3303 - 3355'**    **Total Depth: 3355'**  
Time On: 19:25 08/19    Time Off: 00:54 08/20  
Time On Bottom: 21:06 08/19    Time Off Bottom: 23:21 08/19

### Down Hole Makeup

<b>Heads Up:</b> 7.7 FT	<b>Packer 1:</b> 3298.18 FT
<b>Drill Pipe:</b> 3098.95 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3303.18 FT
<b>Weight Pipe:</b> 186.77 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3290.18 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3342 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 51.82	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 31.82 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 14 FT <i>4 1/2-FH</i>	



**Company: Hupfer Operating,  
Inc**

**Lease: Burmeister "A" #A-2**

SEC: 33 TWN: 19S RNG: 11W  
County: BARTON  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 1778 EGL  
Field Name: Chase-Silica  
Pool: Infield  
Job Number: 216

**Operation:**  
Test Complete

**DATE**  
August  
**19**  
2018

**DST #4      Formation: Arbuckle      Test Interval: 3303 -      Total Depth: 3355'**  
3355'

Time On: 19:25 08/19      Time Off: 00:54 08/20  
Time On Bottom: 21:06 08/19      Time Off Bottom: 23:21 08/19

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 8.8      **Viscosity:** 44      **Filtrate:** 12.8      **Chlorides:** 9,000 ppm