



Company: L. D. Drilling, Inc

Lease: Arensman #2

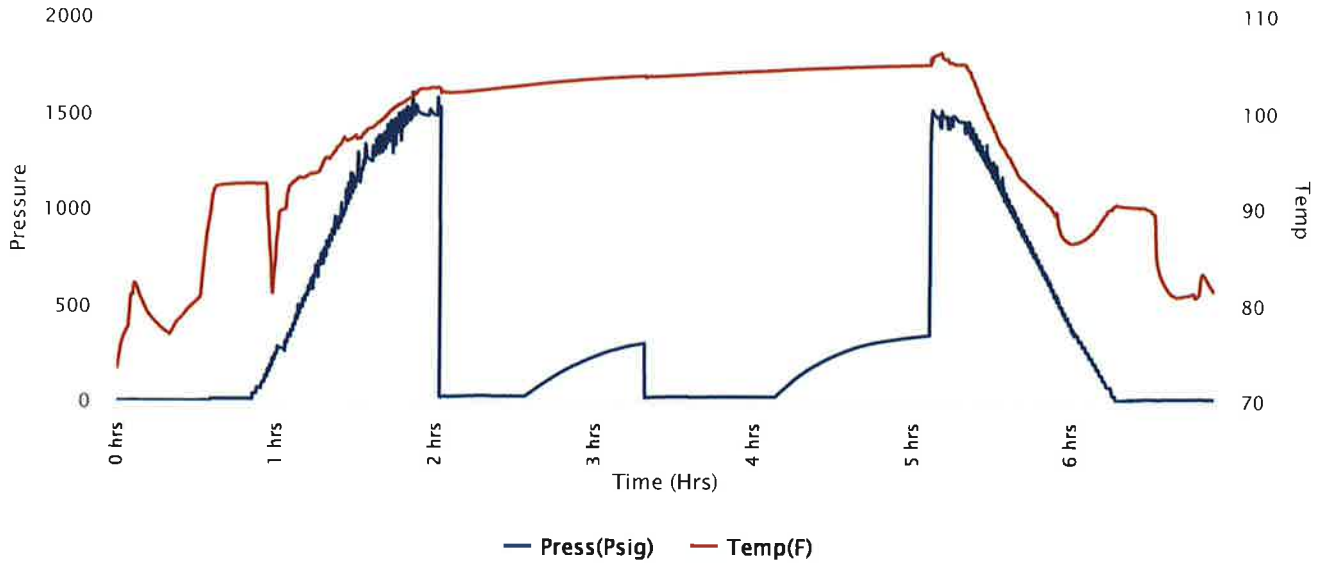
County: BARI ON
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1922 KB
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 51

DATE
August
30
2017

DST #1 Formation: Lansing Test Interval: 3083 - Total Depth: 3155'
 "B-F" 3155'

Time On: 10:16 08/30 Time Off: 17:00 08/30
 Time On Bottom: 12:15 08/30 Time Off Bottom: 15:15 08/30

Electronic Volume Estimate:	1st Open Minutes: 30 13.4" at 30 min	1st Close Minutes: 45 0" at 45 min	2nd Open Minutes: 45 47.4" at 45 min	2nd Close Minutes: 60 0" at 60 min
477'				





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DATE
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30
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DST #1 **Formation: Lansing "B-F"** **Test Interval: 3083 - 3155'** **Total Depth: 3155'**
 Time On: 10:16 08/30 Time Off: 17:00 08/30
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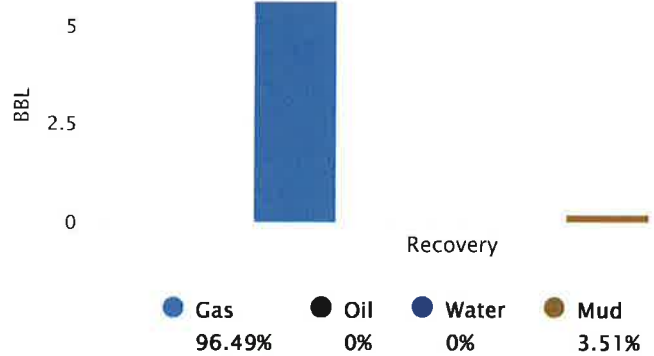
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
550	5.643	G	100	0	0	0
20	0.2052	M	0	0	0	100

Total Recovered: 570 ft
 Total Barrels Recovered: 5.8482

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1485	PSI
Initial Flow	21 to 28	PSI
Initial Closed in Pressure	301	PSI
Final Flow Pressure	17 to 28	PSI
Final Closed in Pressure	345	PSI
Final Hydrostatic Pressure	1477	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.0	%



Rig 1
Elevation: 1922 KB
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 51

DATE August 30 2017
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DST #1 **Formation: Lansing "B-F"** **Test Interval: 3083 - 3155'** **Total Depth: 3155'**

Time On: 10:16 08/30 Time Off: 17:00 08/30
Time On Bottom: 12:15 08/30 Time Off Bottom: 15:15 08/30

Down Hole Makeup

Heads Up: 9.57 FT	Packer 1: 3078 FT
Drill Pipe: 3060 FT ID-3 1/4	Packer 2: 3083 FT
Weight Pipe: FT ID-2 7/8	Top Recorder: 3067.42 FT
Collars: FT ID-2 1/4	Bottom Recorder: 3088 FT
Test Tool: 33.57 FT ID-3 1/2-FH Jars Safety Joint	Well Bore Size: 7 7/8
Total Anchor: 72	Surface Choke: 1"
	Bottom Choke: 5/8"
Anchor Makeup	
Packer Sub: 1 FT	
Perforations: (top): 3 FT 4 1/2-FH	
Change Over: FT	
Drill Pipe: (in anchor): 63 FT ID-3 1/4	
Change Over: FT	
Perforations: (below): 5 FT 4 1/2-FH	



Company: L. D. Drilling, Inc
Lease: Arensman #2

SEC: 28 TWN: 16S RNG: 11W
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -

Field Name: Kratt-Prusa
Pool: Infield
Job Number: 51

DATE
August
30
2017

DST #1 Formation: Lansing Test Interval: 3083 - Total Depth: 3155'
 "B-F" 3155'

Time On: 10:16 08/30 Time Off: 17:00 08/30
 Time On Bottom: 12:15 08/30 Time Off Bottom: 15:15 08/30

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 54 **Filtrate:** 8.0 **Chlorides:** 5,500 ppm



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Lease: Arensman #2

SEC: 28 TWN: 16S RNG: 11W
 County: BARTON
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 Rig 1
 Elevation: 1922 KR



Company: L. D. Drilling, Inc

Lease: Arensman #2

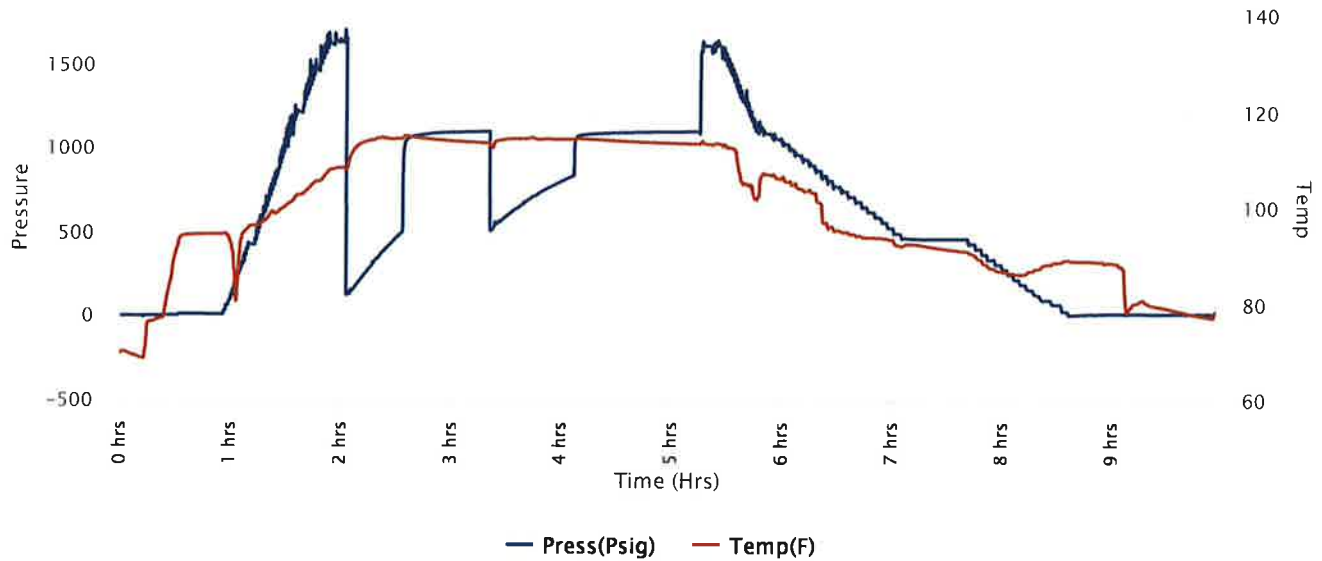
County: BARTON
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 1922 KB
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 51

DATE
August
31
2017

DST #2 **Formation: Arbuckle** **Test Interval: 3310 - 3363'** **Total Depth: 3363'**

Time On: 09:51 08/31 Time Off: 19:35 08/31
Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

Electronic Volume Estimate:	1st Open Minutes: 30	1st Close Minutes: 30	2nd Open Minutes: 45	2nd Close Minutes: 60
3115'	249" at 30 min	1.7" at 30 min	314" at 45 min	1.5" at 60 min





Lease: Arensman #2

State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1922 KB
 Field Name: Kraft-Prusa
 Pool: Infield
 Job Number: 51

DATE
 August
31
 2017

DST #2 Formation: Arbuckle Test Interval: 3310 - Total Depth: 3363'
3363'

Time On: 09:51 08/31 Time Off: 19:35 08/31
 Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

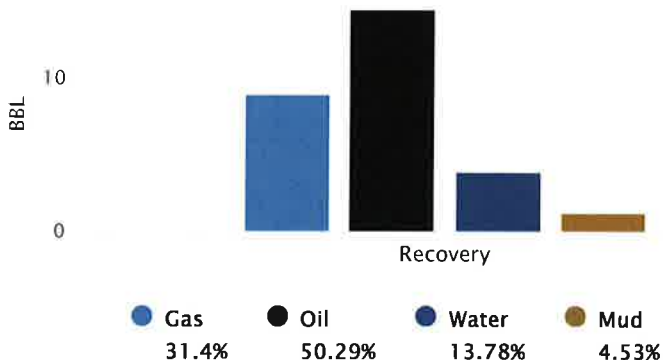
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
500	5.13	G	100	0	0	0
945	9.6957	SLGCO	15	85	0	0
375	3.8475	SLMCSLWCSLGO	15	65	10	10
890	9.1314	SLMCGCHWCO	20	40	30	10
80	0.8208	W	0	0	100	0

Total Recovered: 2790 ft
 Total Barrels Recovered: 28.6254

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1631	PSI
Initial Flow	128 to 506	PSI
Initial Closed in Pressure	1101	PSI
Final Flow Pressure	510 to 839	PSI
Final Closed in Pressure	1101	PSI
Final Hydrostatic Pressure	1611	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	0.0	%



Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1922 KB
Field Name: Kraft-Prusa
Pool: Infield
Job Number: 51

DATE
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DST #2 Formation: Arbuckle Test Interval: 3310 - Total Depth: 3363'
3363'

Time On: 09:51 08/31 Time Off: 19:35 08/31
Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

REMARKS:

Initial Flow: BOB in 1.5 mins.
Initial Shut-in: 1.7 ins. @ BB.
Final Flow: BOB in 2 mins.
Final Shut-in: 1.5 ins. @ BB.

Recovered 500 ft. of gas in pipe & 2,290 ft. total fluid.

Gravity: 42.9 @ 60 degrees F

Ph: 8.0

RW: .27 @ 80 degrees F

Chlorides: 134,000 ppm



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County: BARTON
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Rig 1
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 Pool: Infield
 Job Number: 51

DATE August 31 2017
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DST #2 Formation: Arbuckle Test Interval: 3310 - 3363' Total Depth: 3363'

Time On: 09:51 08/31 Time Off: 19:35 08/31
 Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

Down Hole Makeup

Heads Up: 31.57 FT	Packer 1: 3305 FT
Drill Pipe: 3309 FT <i>ID-3 1/4</i>	Packer 2: 3310 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3294.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3315 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 53	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): 32 FT <i>ID-3 1/4</i>	
Change Over: FT	
Perforations: (below): 17 FT <i>4 1/2-FH</i>	



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DST #2 **Formation: Arbuckle** **Test Interval: 3310 - 3363'** **Total Depth: 3363'**

Time On: 09:51 08/31 Time Off: 19:35 08/31
Time On Bottom: 11:51 08/31 Time Off Bottom: 14:51 08/31

Mud Properties

Mud Type: Chemical **Weight:** 9.4 **Viscosity:** 56 **Filtrate:** 9.2 **Chlorides:** 5,700 ppm



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Rig 1
Elevation: 1922 KR