



Company: L. D. Drilling, Inc
Lease: Crystal #1-4

SEC: 4 TWN: 11S RNG: 16W
 County: ELLIS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1863 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 326

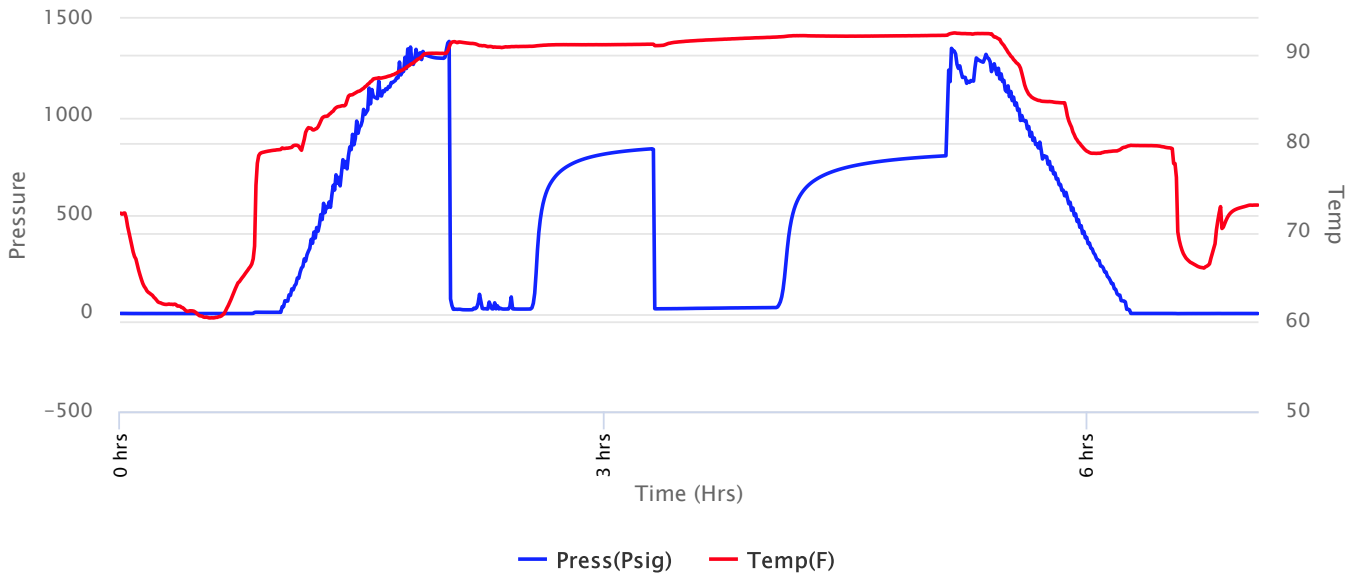
Operation:
 Uploading recovery & pressures

DATE
 April
19
 2019

DST #1 **Formation: Upper Topeka** **Test Interval: 2807 - 2830'** **Total Depth: 2830'**
 Time On: 11:04 04/19 Time Off: 17:57 04/19
 Time On Bottom: 13:03 04/19 Time Off Bottom: 16:03 04/19

Electronic Volume Estimate: 35'	<u>1st Open</u> Minutes: 30 Current Reading: 3.1" at 30 min Max Reading: 3.1"	<u>1st Close</u> Minutes: 45 Current Reading: 0" at 45 min Max Reading: 0"	<u>2nd Open</u> Minutes: 45 Current Reading: 1.7" at 45 min Max Reading: 1.7"	<u>2nd Close</u> Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0"
------------------------------------	---	--	---	--

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Crystal #1-4

SEC: 4 TWN: 11S RNG: 16W
 County: ELLIS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 1863 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 326

Operation:
 Uploading recovery & pressures

DATE
 April
19
 2019

DST #1 **Formation: Upper Topeka** **Test Interval: 2807 - 2830'** **Total Depth: 2830'**
 Time On: 11:04 04/19 Time Off: 17:57 04/19
 Time On Bottom: 13:03 04/19 Time Off Bottom: 16:03 04/19

Recovered

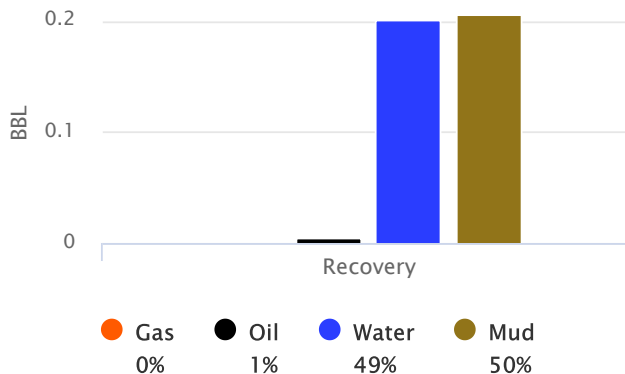
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
40	0.4104	SLOCHWCM	0	1	49	50

Total Recovered: 40 ft
 Total Barrels Recovered: 0.4104

Reversed Out
NO

Initial Hydrostatic Pressure	1299	PSI
Initial Flow	20 to 22	PSI
Initial Closed in Pressure	838	PSI
Final Flow Pressure	23 to 29	PSI
Final Closed in Pressure	802	PSI
Final Hydrostatic Pressure	1268	PSI
Temperature	93	°F
Pressure Change Initial Close / Final Close	4.2	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Crystal #1-4

SEC: 4 TWN: 11S RNG: 16W
County: ELLIS
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1863 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 326

Operation:

Uploading recovery &
pressures

DATE

April
19
2019

DST #1	Formation: Upper Topeka	Test Interval: 2807 - 2830'	Total Depth: 2830'
	Time On: 11:04 04/19	Time Off: 17:57 04/19	
	Time On Bottom: 13:03 04/19	Time Off Bottom: 16:03 04/19	

BUCKET MEASUREMENT:

1st Open: 1 1/4" built to 3"

1st Close: Nobb

2nd Open: Wsb built to 1 3/4"

2nd Close: nobb

REMARKS:

12ft slide to btm.

Tool Sample: 0% Gas 1% Oil 96% Water 3% Mud

Ph: 7

Measured RW: .6 @ 45 degrees °F

RW at Formation Temp: 0.311 @ 93 °F

Chlorides: 16100 ppm



Company: L. D. Drilling, Inc
Lease: Crystal #1-4

SEC: 4 TWN: 11S RNG: 16W
 County: ELLIS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 1863 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 326

Operation:
 Uploading recovery &
 pressures

DATE
 April
19
 2019

DST #1 **Formation: Upper Topeka** **Test Interval: 2807 - 2830'** **Total Depth: 2830'**
 Time On: 11:04 04/19 Time Off: 17:57 04/19
 Time On Bottom: 13:03 04/19 Time Off Bottom: 16:03 04/19

Down Hole Makeup

Heads Up: 33.51 FT	Packer 1: 2802 FT
Drill Pipe: 2807.94 FT <i>ID-3 1/4</i>	Packer 2: 2807 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 2791.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 2809 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
	Surface Choke: 1"
	Bottom Choke: 5/8"

Total Anchor: 23
Anchor Makeup

Packer Sub: 1 FT
Perforations: (top): FT
4 1/2-FH
Change Over: FT
Drill Pipe: (in anchor): FT
ID-3 1/4
Change Over: FT
Perforations: (below): 22 FT
4 1/2-FH



Company: L. D. Drilling, Inc
Lease: Crystal #1-4

SEC: 4 TWN: 11S RNG: 16W
County: ELLIS
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 1863 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 326

Operation:

Uploading recovery &
pressures

DATE

April
19
2019

DST #1 **Formation: Upper Topeka** **Test Interval: 2807 - 2830'** **Total Depth: 2830'**
Time On: 11:04 04/19 Time Off: 17:57 04/19
Time On Bottom: 13:03 04/19 Time Off Bottom: 16:03 04/19

Mud Properties

Mud Type: Chemical **Weight:** 8.8 **Viscosity:** 57 **Filtrate:** 6.8 **Chlorides:** 5000 ppm