

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**Company: L. D. Drilling, Inc**  
**Lease: Walters #1-25**

SEC: 25 TWN: 5S RNG: 23W  
 County: NORTON  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2289 EGL  
 Field Name: NA  
 Pool: Infield  
 Job Number: 435  
 API #: 15-137-20754-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 February  
**22**  
 2020

**DST #1**      **Formation: Lansing "A"**      **Test Interval: 3503 - 3530'**      **Total Depth: 3530'**  
 Time On: 05:20 02/22      Time Off: 12:35 02/22  
 Time On Bottom: 08:39 02/22      Time Off Bottom: 10:39 02/22

Electronic Volume Estimate:  
 20'

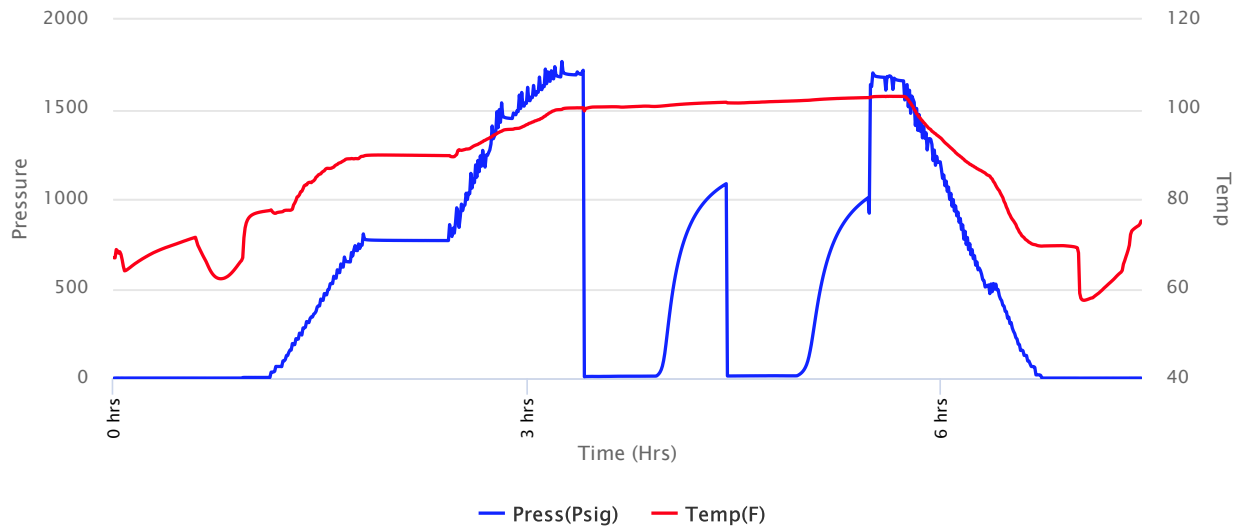
1st Open  
 Minutes: 30  
 Current Reading: 1.2" at 30 min  
 Max Reading: 1.2"

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

2nd Open  
 Minutes: 30  
 Current Reading: .9" at 30 min  
 Max Reading: .9"

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

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Walters #1-25**

SEC: 25 TWN: 5S RNG: 23W  
 County: NORTON  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2289 EGL  
 Field Name: NA  
 Pool: Infield  
 Job Number: 435  
 API #: 15-137-20754-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 February  
**22**  
 2020

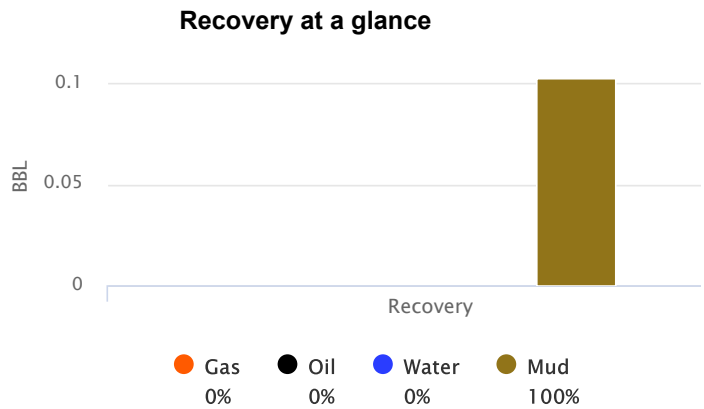
**DST #1**      **Formation: Lansing "A"**      **Test Interval: 3503 - 3530'**      **Total Depth: 3530'**  
 Time On: 05:20 02/22      Time Off: 12:35 02/22  
 Time On Bottom: 08:39 02/22      Time Off Bottom: 10:39 02/22

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.1026	M	0	0	0	100

Total Recovered: 10 ft  
 Total Barrels Recovered: 0.1026

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1695	PSI
Initial Flow	9 to 13	PSI
<b>Initial Closed in Pressure</b>	<b>1085</b>	<b>PSI</b>
Final Flow Pressure	13 to 14	PSI
<b>Final Closed in Pressure</b>	<b>1007</b>	<b>PSI</b>
Final Hydrostatic Pressure	1692	PSI
Temperature	103	°F
Pressure Change Initial Close / Final Close	7.3	%



GIP cubic foot volume: 0



**Operation:**Uploading recovery &  
pressuresField Name: NA  
Pool: Infield  
Job Number: 435  
API #: 15-137-20754-00-00**DATE**February  
**22**  
2020

<b>DST #1</b>	<b>Formation: Lansing "A"</b>	<b>Test Interval: 3503 - 3530'</b>	<b>Total Depth: 3530'</b>
	Time On: 05:20 02/22	Time Off: 12:35 02/22	
	Time On Bottom: 08:39 02/22	Time Off Bottom: 10:39 02/22	

**Down Hole Makeup**

<b>Heads Up:</b> 30.54 FT	<b>Packer 1:</b> 3497.5 FT
<b>Drill Pipe:</b> 3500.47 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 3503 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3486.92 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3505 FT
<b>Test Tool:</b> 34.07 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 27	<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 1/4</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 26 FT <i>4 1/2-FH</i>	


**Company: L. D. Drilling, Inc**  
**Lease: Walters #1-25**

 SEC: 25 TWN: 5S RNG: 23W  
 County: NORTON  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2289 EGL  
 Field Name: NA  
 Pool: Infield

**Operation:**









**Company: L. D. Drilling, Inc**  
**Lease: Walters #1-25**

SEC: 25 TWN: 5S RNG: 23W  
 County: NORTON  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2289 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 435  
 API #: 15-137-20754-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 February  
**23**  
 2020

**DST #2**    **Formation: LKC "H-J"**    **Test Interval: 3616 - 3672'**    **Total Depth: 3672'**  
 Time On: 08:58 02/23    Time Off: 14:43 02/23  
 Time On Bottom: 11:00 02/23    Time Off Bottom: 13:00 02/23

Electronic Volume Estimate:  
 17'

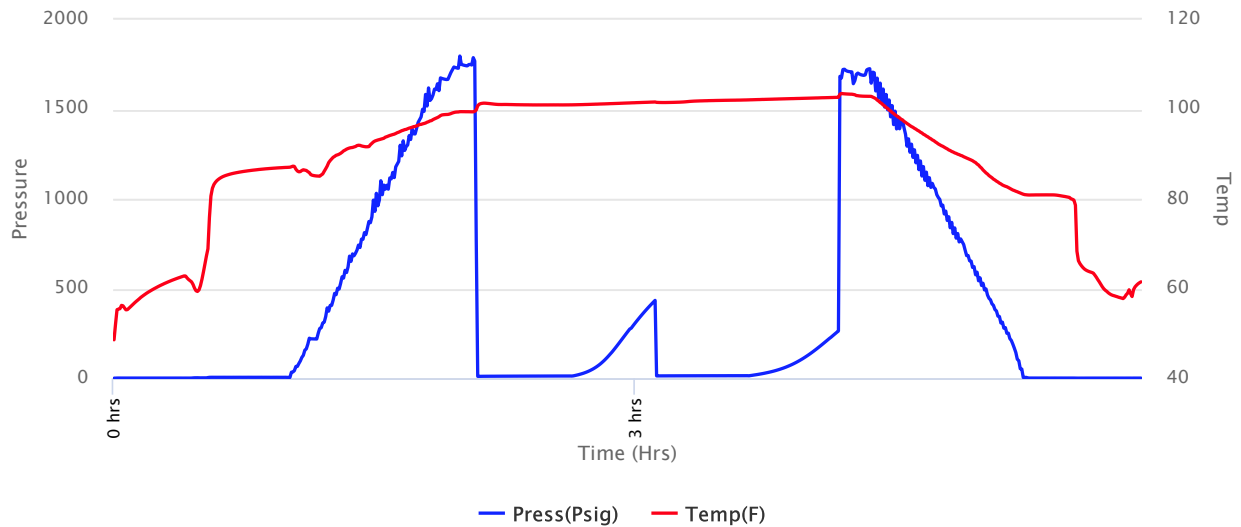
1st Open  
 Minutes: 30  
 Current Reading:  
 1.8" at 30 min  
 Max Reading: 1.8"

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: 30  
 Current Reading:  
 0" at 30 min  
 Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Walters #1-25**

SEC: 25 TWN: 5S RNG: 23W  
 County: NORTON  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2289 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 435  
 API #: 15-137-20754-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 February  
**23**  
 2020

**DST #2**      **Formation: LKC "H-J"**      **Test Interval: 3616 - 3672'**      **Total Depth: 3672'**  
 Time On: 08:58 02/23      Time Off: 14:43 02/23  
 Time On Bottom: 11:00 02/23      Time Off Bottom: 13:00 02/23

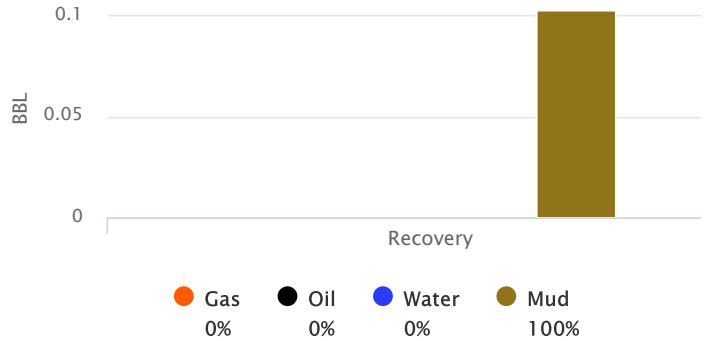
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.1026	M	0	0	0	100

Total Recovered: 10 ft  
 Total Barrels Recovered: 0.1026

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1747	PSI
Initial Flow	11 to 13	PSI
<b>Initial Closed in Pressure</b>	<b>435</b>	<b>PSI</b>
Final Flow Pressure	13 to 14	PSI
<b>Final Closed in Pressure</b>	<b>264</b>	<b>PSI</b>
Final Hydrostatic Pressure	1723	PSI
Temperature	103	°F
Pressure Change Initial Close / Final Close	39.4	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Operation:**Uploading recovery &  
pressuresField Name: Wildcat  
Pool: Infield  
Job Number: 435  
API #: 15-137-20754-00-00**DATE**February  
**23**  
2020

<b>DST #2</b>	<b>Formation: LKC "H- J"</b>	<b>Test Interval: 3616 - 3672'</b>	<b>Total Depth: 3672'</b>
	Time On: 08:58 02/23	Time Off: 14:43 02/23	
	Time On Bottom: 11:00 02/23	Time Off Bottom: 13:00 02/23	

**Down Hole Makeup**

<b>Heads Up:</b> 11.75 FT	<b>Packer 1:</b> 3610.71 FT
<b>Drill Pipe:</b> 3594.89 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 3615.71 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3600.13 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3655 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 56.29	<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> 4 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 31.29 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 18 FT <i>4 1/2-FH</i>	



**Company: L. D. Drilling, Inc**  
**Lease: Walters #1-25**

SEC: 25 TWN: 5S RNG: 23W  
County: NORTON  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2289 EGL  
Field Name: Wildcat  
Pool: Infield

**Operation:**

Uploading recovery & pressures

Job Number: 435  
API #: 15-137-20754-00-00

**DATE**

February

**23**

2020

**DST #2**      **Formation: LKC "H-J"**      **Test Interval: 3616 - 3672'**      **Total Depth: 3672'**

Time On: 08:58 02/23

Time Off: 14:43 02/23

Time On Bottom: 11:00 02/23

Time Off Bottom: 13:00 02/23

**Mud Properties**

**Mud Type:** Chemical

**Weight:** 9.2

**Viscosity:** 54

**Filtrate:** 6.0

**Chlorides:** 900 ppm



**Operation:**

Uploading recovery & pressures

**Company: L. D. Drilling, Inc**  
**Lease: Walters #1-25**

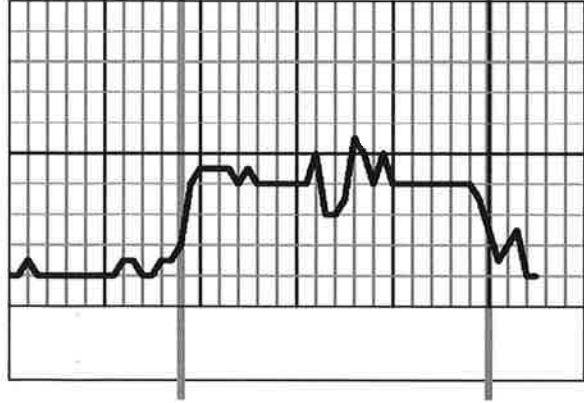
SEC: 25 TWN: 5S RNG: 23W  
County: NORTON  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc - Rig 1  
Elevation: 2289 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 435  
API #: 15-137-20754-00-00





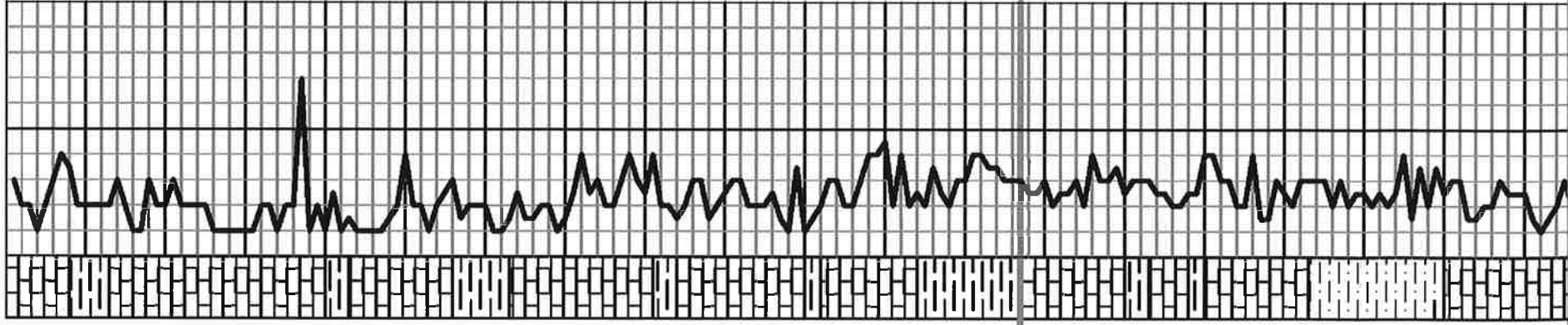


LITH.	0	DRILL TIME (MIN/FT)	10	DEPTH	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
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1950

<p>ANHYDRITE 1938' (+365) E Log 1936' (+367)</p>	
<p>Base ANHYDRITE 1970' (+333) E Log 1968' (+335)</p>	



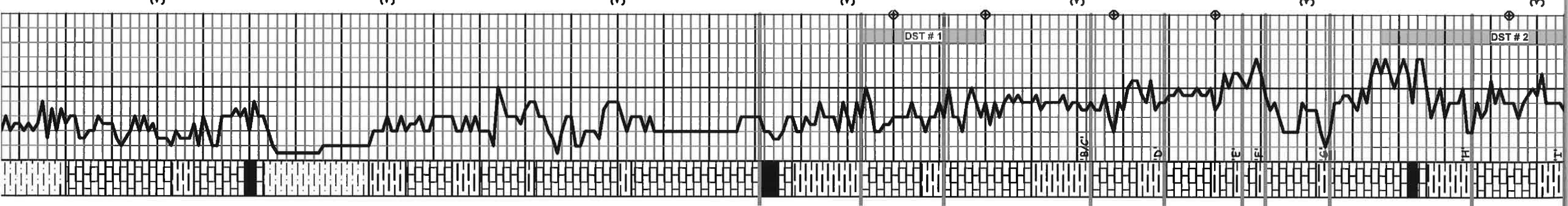
3150

3200

3250

3300

<p>Ls: gry-lt brn, fn xln, dns, sli foss-ool, pr vis por ns</p> <p>Sh: gry-drk gry, calc</p> <p>Ls: gry-lt brn, fn xln, dns, sli chlky, sli foss-ool, pr vis por ns</p> <p>Ls: crm-lt brn, fn xln, gmlr, sli foss, part chlky, sct fr intrxln por, ns</p> <p>Ls: gry-lt brn, fn xln, sli gmlr, part dns, pr vis por, ns</p> <p>Sh: gry-red w/ Ls: brn-gry, fn xln, dns</p> <p>Ls-Dolo Ls: lt brn-lt gry-crm, fn xln, gmlr, sli foss, fr intrxln por, ns</p> <p>Ls: gry-lt brn, fn xln, sli gmlr, part dns, pr vis por, ns</p> <p>Ls: lt gry-gry, fn xln, dns, sli foss, pr vis por, ns</p> <p>Ls: As Above, shly, sct blk sh</p> <p>Sh: gry-some red</p>	<p>Mud Co: 3241' 2/21/20 WT. 8.9, Vis. 60, WL. 6.0, Chl.900, LCM.2</p>
<p>TOPEKA 3277' (-974) E Log 3276' (-973)</p>	
<p>Ls: crm-lt brn, fn xln, part dns, foss-mott in part, pr vis por, ns</p> <p>Ls: lt gry-lt brn, fn xln, dns, chrty, sli foss, rare pp por, ns</p> <p>Ls: crm-lt gry, fn xln, gmlr, sli chrty, fr intrxln-pp por, ns</p> <p>Sh: gry w/ Sst: gry, vy fn grn, calc, hard, no por ns</p> <p>Ls: crm-lt gry, fn xln, part dns, ool-sli foss, pr vis por, ns</p> <p>Ls: crm-lt gry, fn xln, subchlky, chrty, ool-sli foss, pr-sm, fr pp-via por, ns</p>	



ns

Ls: crm-lt gry, fn xln, part dns, ool-sli foss, pr vis por, ns

Ls: crm-lt gry, fn xln, subchlkly, chrty, ool-sli foss, pr-sm fr pp-vug por, ns

Same

Ls: crm-lt gry, fn xln, subchlkly, sli chrty, sli foss, pr vis por, ns

Sh: blk, carb

Sh: pale gn, gummy, snidy-slty

Same

Sh: gry-red

Ls: lt brn, fn xln, gmlr, sli foss, pr-fr pp-intrxltn por, ns, much wt chlk

Sh: gry-red

Ls: crm-lt brn, fn xln, vy foss-ool in part, pr-fr intrpart por-vug por, ns

vy sct Sh: blk

Ls: lt brn-lt gry, fn xln, cmpct, pr vis por, ns

Ls: lt brn-lt gry, fn xln, ool-foss, pr-fr intrpart-vug por, ns

Ls: lt brn-lt gry, fn xln, dns, sli foss-ool, pr vis por, ns

Same

fld Sh: blk, carb @ 3490'

Ls: brn, fn xln, dns

Sh: gry-red-grn

Ls: crm-lt brn, fn xln, part dns, ool-subool, vy chrty, pr vis por, ns

Sh: gry-sm gn

Ls: lt brn-lt gry, fn xln, ool, fr introol-vug por, sli-frsfo, sm gssy, sli odor, brn-drk brn, sptd-subsat stn, trc sat stn

Ls: crm-lt gry, fn xln, dns, sct pcs as above

Sh: red, gummy, some gry & gn

Ls: crm-lt gry, fn xln, dns, vy chrty, sct ool ls w/ pr-trc fr introol-vug por, vssfo, no odor, brn sptd stn

Ls: crm-lt gry, vy fn-fn xln, dns, part chlkly, rare pcs sli ool, pr vug por, trc fo, no odor, lt brn sptd stn

Ls: lt gry-some gn/gry-prpl/gry, vy fn-fn xln, dns trc Ls: crm, fn xln, ool, pr introol por, ssofo, no odor, brn sptd stn

sct Ls: crm, fn xln, ool-foss, fr intrpart-vug por, sfo, no odor, drk brn sptd-subsat stn

Ls: crm, fn xln, chlkly, whtrd w/ sct oomld-suboomld por, ns, no odor

Ls: crm-lt gry, fn xln, dns, part chlkly, chrty, pr vis por, ns

Sh: blk, carb

Ls: brn-gry, fn xln, dns, foss-mott

Sh: gry-red, gummy in part

Ls: lt gry, fn xln, ool, fr introol por, vssfo, sli odor, lt brn sptd stn

Ls: lt gry-gn/gry, fn xln, dns, part chlkly, pt vis por, ns

Sh: red, gummy-gry-some gn

3350

3400

3450

3500

3550

3600

3650

HEEBNER 3481' (-1178)  
E Log 3480' (-1177)

Mud Co: 3530' 2/22/20  
Wt: 9.0, Vis: 59, WL: 6.0, Chl:900, LCM:2

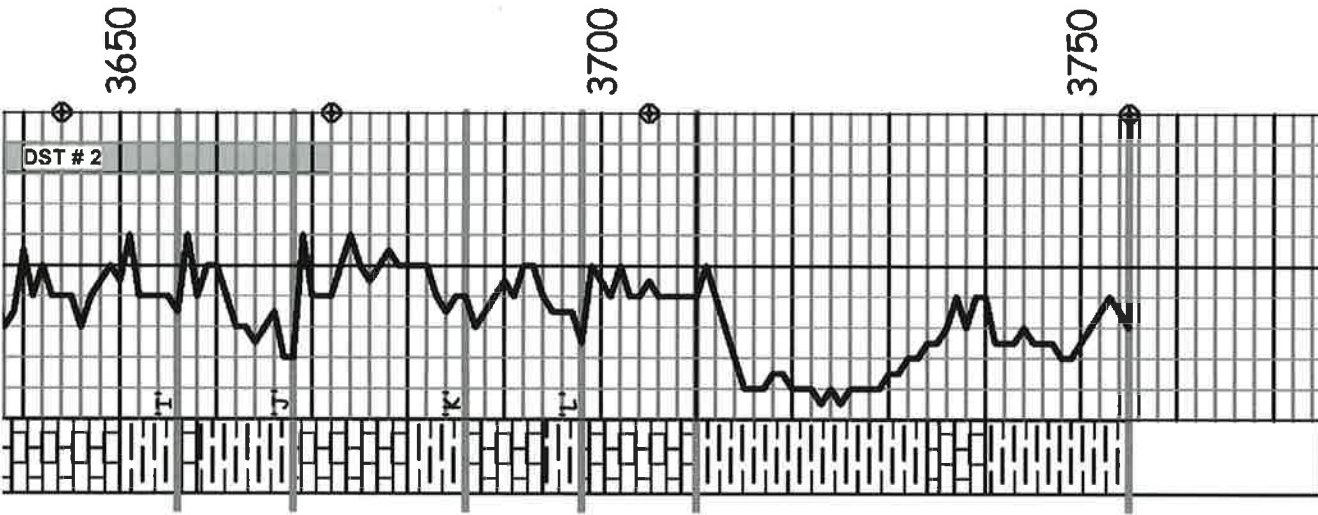
TORONTO 3503' (-1200)  
E Log 3502' (-1199)

LANSING 3521' (-1218)  
E Log 3520' (-1217)

DST # 1 3503' to 3530'  
30"-30"-30"-30"  
IF: Blow Built to 1"  
FF: Blow Built to 1/2"  
RECOVERY: 10' Mud sso in tool  
IFP: 9-13# ISIP: 1085#  
FFP: 13-14# FSIP: 1007#  
IHP: 1695# FHP: 1692#  
BHT: 103 deg. F

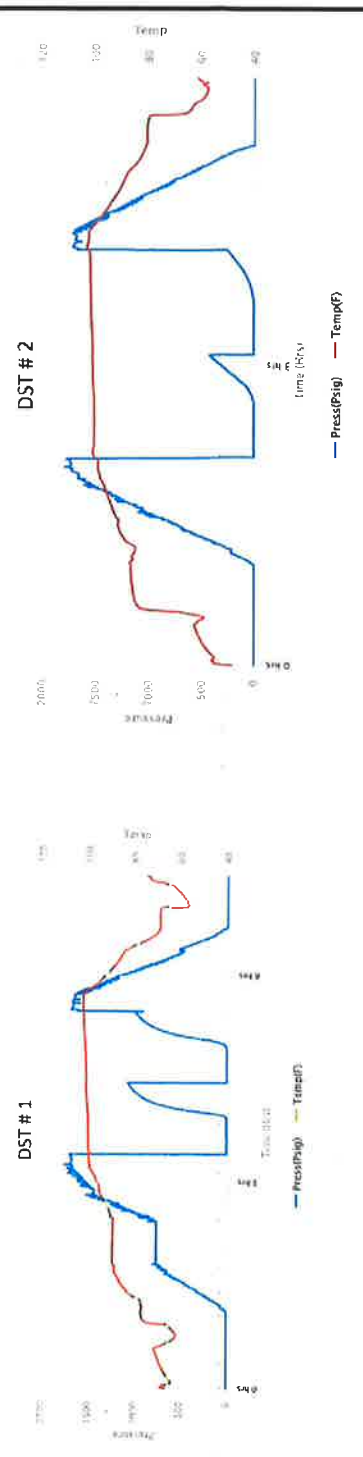
Pipe Strap: 2.55' Short to Board  
Dev: 3/4 deg.

DST # 2 3616' to 3672'  
30"-30"-30"-30"  
IF: Blow Built to 1 1/4"  
FF: Blow Built to 1/4"  
RECOVERY: 10' Mud sso in tool  
IFP: 11-13# ISIP: 435#  
FFP: 13-14# FSIP: 264#  
IHP: 1747# FHP: 1723#



<p>LF: Blow Built to 1/4"</p> <p>RECOVERY: 10' Mud sso in tool</p> <p>IFP: 11-13# ISIP: 435#</p> <p>FFP: 13-14# FSIP: 264#</p> <p>IHP: 1747# FHP: 1723#</p> <p>BHT: 103 deg. F</p>	<p>Mud Co: 3672' 2/23/20</p> <p>Wt. 9.2, Vis. 54, WL. 6.0, Chl.900, LCM.2</p>
<p>Ls: lt gry-gn/gry, fn xln, dns, part chky, pt vis por, ns</p> <p>Sh: red, gummy-gry-some gn</p> <p>Ls: lt gry, fn xln, dns, pr vis por, ns w/ Sh: as above</p> <p>Ls: lt gry, fn xln, ool, sct pr pp por-intrxln por, vssfo, sli odor, lt brn subsat-sat stn</p> <p>Sh: gry-red-gn, gummy in part</p> <p>Ls: wt-crm-lt gry, fn xln, part dns, part chky, sli foss-ool in part, pr vug por, ss hvy tarry oil, no odor, drk brn sptd stn, some asph stn</p> <p>Ls: crm-lt gry, fn xln, dns, foss in part, pr vug por, vssfo, no odor, drk brn sptd stn</p> <p>Sh: red-gry-grn, gummy in part</p> <p>Same</p> <p>Ls: crm-lt gry, fn-some med xln, part dns, sli foss, sli glauc, pr vis por, ns</p> <p>Sh: red, gummy-some gry</p>	<p>BKC 3710' (-1407)</p> <p>E Log 3709' (-1406)</p>
<p>RTD 3755' (-1452)</p> <p>E Log 3754' (-1451)</p>	

Drill Stem Test Charts









250 N. Water St., Suite #200  
Wichita, KS 67202



**HURRICANE SERVICES INC**

Customer: <b>L.D. DRILLING</b>		Lease & Well #: <b>WALTERS 1-25</b>		Date: <b>2/18/2020</b>	
Service District: <b>MEDICINE LODGE KS</b>		County & State: <b>NORTON CO KS</b>		Legals S/T/R: <b>25-58-23W</b>	
Job Type: <input checked="" type="checkbox"/> 8 5/8 SURFACE <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD		New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No		Job #: _____	
Ticket #: <b>ICT3270</b>					
Equipment #	Driver	<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>			
912	MATTAL	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
268	MCGRRAW	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
182/256	WHITFIELD	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
<b>Comments</b>					
<b>Product/Service</b>					
Code	Description	Unit of Measure	Quantity		Net Amount
C010	Cement Pump	ea	1.00		\$637.50
M010	Heavy Equipment Mileage	mi	160.00		\$544.00
M015	Light Equipment Mileage	mi	80.00		\$136.00
M020	Ton Mileage	tn	812.00		\$1,036.30
CP070	60/40/2 Pozmix	sack	235.00		\$2,596.75
CP100	Calcium Chloride	lb	609.00		\$388.24
CP120	Flo-Seal	lb	59.00		\$87.76
<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>					
<b>Based on this job, how likely is it you would recommend HSI to a colleague?</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely			Gross: \$ 5,426.55		Net: \$ 5,426.55
			Total Taxable: \$ -	Tax Rate:	Sale Tax: \$ -
			State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		
			HSI Representative: <i>Mike Mattal</i>		

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

x *Paul Wood* **CUSTOMER AUTHORIZATION SIGNATURE**

