

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. 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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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	WATT 4-10
Doc ID	1484428

All Electric Logs Run

COMPENSATED DENSITY/NEUTRON LOG
DUAL INDUCTION LOG
MICRO LOG
SONIC LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	WATT 4-10
Doc ID	1484428

Tops

Name	Top	Datum
ANHYDRITE	2140	+598
BASE ANHYDRITE	2169	+569
STOTLER	3409	-671
HEEBNER	3792	-1054
LANSING	3828	-1090
STARK	4080	-1342
MARMATON	4194	-1456
FORT SCOTT	4344	-1606
CHEROKEE	4368	-1630
MISSISSIPPI	4448	-1710





**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2731 EGL  
 Field Name: Doll East  
 Pool: Infield  
 Job Number: 403  
 API #: 15-101-22636-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**05**  
 2019

**DST #1 Formation: "K" Zone Test Interval: 4076 - Total Depth: 4104'**  
**4104'**

Time On: 12:06 11/05 Time Off: 20:06 11/05  
 Time On Bottom: 14:30 11/05 Time Off Bottom: 17:30 11/05

Electronic Volume Estimate:  
 1045'

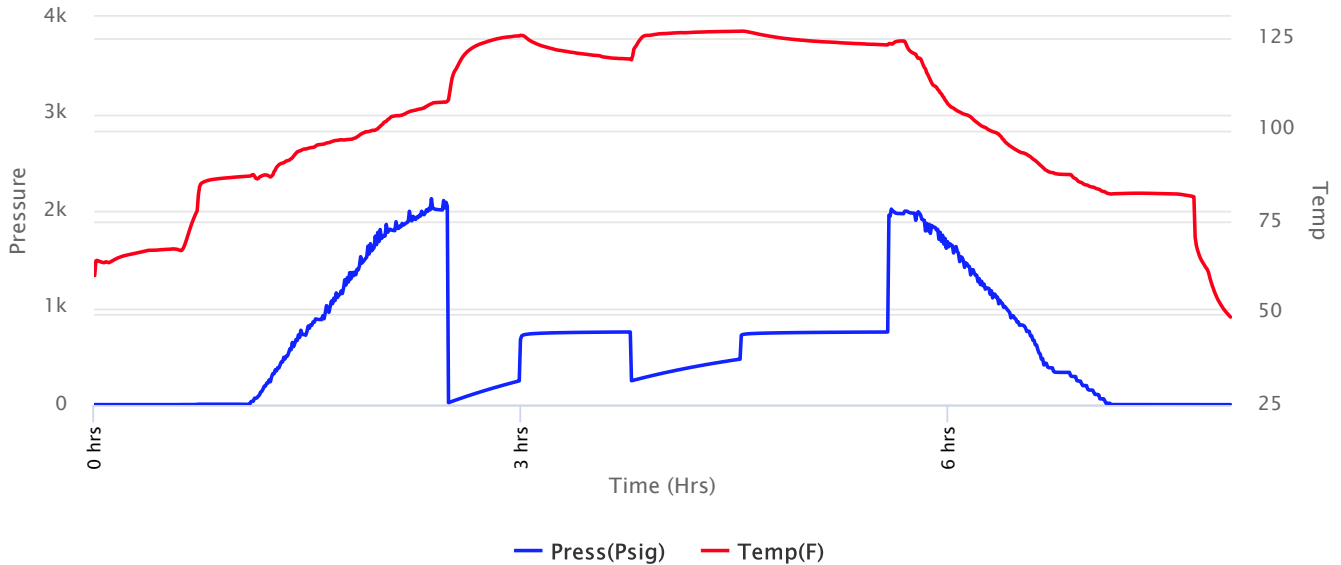
1st Open  
 Minutes: 30  
 Current Reading:  
 49.7" at 30 min  
 Max Reading: 49.7"

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

2nd Open  
 Minutes: 45  
 Current Reading:  
 52.0" at 45 min  
 Max Reading: 52.0"

2nd Close  
 Minutes: 60  
 Current Reading:  
 0" at 60 min  
 Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2731 EGL  
 Field Name: Doll East  
 Pool: Infield  
 Job Number: 403  
 API #: 15-101-22636-00-00

**Operation:**  
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**DATE**  
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**05**  
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**DST #1 Formation: "K" Zone Test Interval: 4076 - 4104' Total Depth: 4104'**

Time On: 12:06 11/05 Time Off: 20:06 11/05  
 Time On Bottom: 14:30 11/05 Time Off Bottom: 17:30 11/05

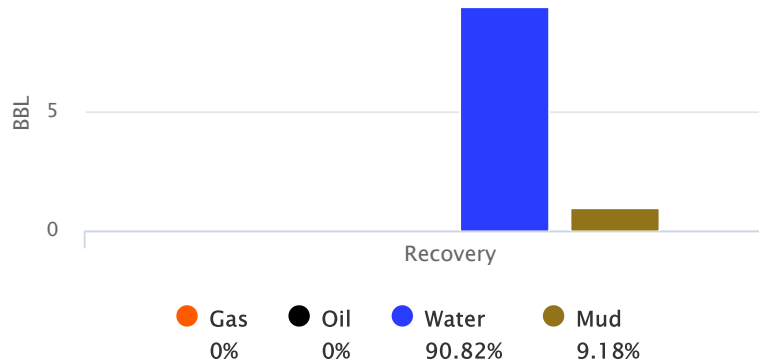
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
255	2.6163	MCW	0	0	74	26
440	4.5144	SLMCW	0	0	94	6
315	3.2319	W	0	0	100	0

Total Recovered: 1010 ft  
 Total Barrels Recovered: 10.3626

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2030	PSI
Initial Flow	21 to 246	PSI
<b>Initial Closed in Pressure</b>	<b>750</b>	<b>PSI</b>
Final Flow Pressure	247 to 469	PSI
<b>Final Closed in Pressure</b>	<b>750</b>	<b>PSI</b>
Final Hydrostatic Pressure	2017	PSI
Temperature	128	°F
Pressure Change Initial Close / Final Close	0.1	%

GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2731 EGL  
Field Name: Doll East  
Pool: Infield  
Job Number: 403  
API #: 15-101-22636-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**05**  
2019

**DST #1      Formation: "K" Zone      Test Interval: 4076 -      Total Depth: 4104'**  
**4104'**  
Time On: 12:06 11/05      Time Off: 20:06 11/05  
Time On Bottom: 14:30 11/05      Time Off Bottom: 17:30 11/05

**BUCKET MEASUREMENT:**

1st Open: 1/2" blow building to BOB 6 1/2 min.  
1st Close: No BB  
2nd Open: 1/4" blow building to BOB 9 1/2 min.  
2nd Close: No BB

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 94% Water 6% Mud  
Ph: 7.0  
Measured RW: .36 @ 55 degrees °F  
RW at Formation Temp: 0.165 @ 128 °F  
Chlorides: 28,000 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2731 EGL  
 Field Name: Doll East  
 Pool: Infield  
 Job Number: 403  
 API #: 15-101-22636-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**05**  
 2019

**DST #1**      **Formation: "K" Zone**      **Test Interval: 4076 - 4104'**      **Total Depth: 4104'**  
 Time On: 12:06 11/05      Time Off: 20:06 11/05  
 Time On Bottom: 14:30 11/05      Time Off Bottom: 17:30 11/05

**Down Hole Makeup**

<b>Heads Up:</b> 19.94 FT	<b>Packer 1:</b> 4071 FT
<b>Drill Pipe:</b> 4063.37 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4076 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4060.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4078 FT
<b>Test Tool:</b> 33.57 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 1/4</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 27 FT <i>4 1/2-FH</i>	



**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2731 EGL  
Field Name: Doll East  
Pool: Infield  
Job Number: 403  
API #: 15-101-22636-00-00

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**05**  
2019

**DST #1      Formation: "K" Zone      Test Interval: 4076 -      Total Depth: 4104'**  
**4104'**

Time On: 12:06 11/05      Time Off: 20:06 11/05  
Time On Bottom: 14:30 11/05      Time Off Bottom: 17:30 11/05

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.4      **Viscosity:** 59      **Filtrate:** 10.4      **Chlorides:** 2,500 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2731 EGL  
 Field Name: Doll East  
 Pool: Infield  
 Job Number: 403  
 API #: 15-101-22636-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**05**  
 2019

**DST #1    Formation: "K" Zone    Test Interval: 4076 - 4104'    Total Depth: 4104'**  
 Time On: 12:06 11/05    Time Off: 20:06 11/05  
 Time On Bottom: 14:30 11/05    Time Off Bottom: 17:30 11/05

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2731 EGL  
 Field Name: Doll East  
 Pool: Infield  
 Job Number: 403  
 API #: 15-101-22636-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**07**  
 2019

**DST #2**      **Formation: Ft. Scott/Johnson**      **Test Interval: 4352 - 4430'**      **Total Depth: 4430'**  
 Time On: 02:56 11/07      Time Off: 10:46 11/07  
 Time On Bottom: 05:43 11/07      Time Off Bottom: 08:43 11/07

Electronic Volume Estimate:  
 13'

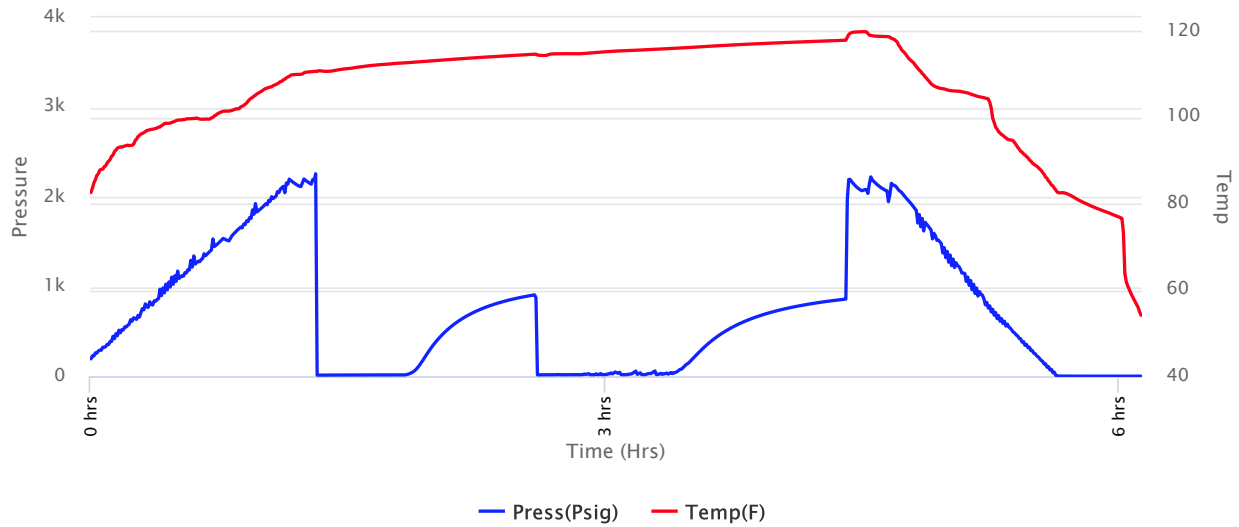
1st Open  
 Minutes: 30  
 Current Reading: 1.1" at 30 min  
 Max Reading: 1.1"

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: 60  
 Current Reading: 0" at 60 min  
 Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2731 EGL  
 Field Name: Doll East  
 Pool: Infield  
 Job Number: 403  
 API #: 15-101-22636-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**07**  
 2019

**DST #2**      **Formation: Ft. Scott/Johnson**      **Test Interval: 4352 - 4430'**      **Total Depth: 4430'**  
 Time On: 02:56 11/07      Time Off: 10:46 11/07  
 Time On Bottom: 05:43 11/07      Time Off Bottom: 08:43 11/07

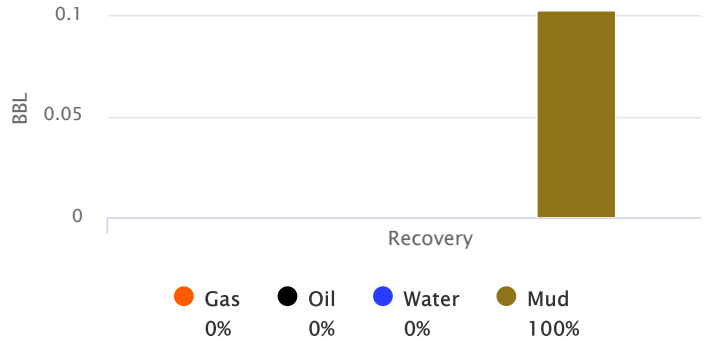
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>	<u>M</u>				
10	0.1026		0	0	0	100

Total Recovered: 10 ft  
 Total Barrels Recovered: 0.1026

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	2184	PSI
Initial Flow	13 to 16	PSI
<b>Initial Closed in Pressure</b>	<b>908</b>	<b>PSI</b>
Final Flow Pressure	16 to 30	PSI
<b>Final Closed in Pressure</b>	<b>861</b>	<b>PSI</b>
Final Hydrostatic Pressure	2171	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	5.2	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2731 EGL  
 Field Name: Doll East  
 Pool: Infield  
 Job Number: 403  
 API #: 15-101-22636-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**07**  
 2019

<b>DST #2</b>	<b>Formation: Ft. Scott/Johnson</b>	<b>Test Interval: 4352 - 4430'</b>	<b>Total Depth: 4430'</b>
	Time On: 02:56 11/07	Time Off: 10:46 11/07	
	Time On Bottom: 05:43 11/07	Time Off Bottom: 08:43 11/07	

**BUCKET MEASUREMENT:**

1st Open: Surface blow building to 1"  
 1st Close: No BB  
 2nd Open: Surface blow  
 2nd Close: No BB

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2731 EGL

**Operation:**Uploading recovery &  
pressuresField Name: Doll East  
Pool: Infield  
Job Number: 403  
API #: 15-101-22636-00-00**DATE**November  
**07**  
2019

<b>DST #2</b>	<b>Formation: Ft. Scott/Johnson</b>	<b>Test Interval: 4352 - 4430'</b>	<b>Total Depth: 4430'</b>
	Time On: 02:56 11/07	Time Off: 10:46 11/07	
	Time On Bottom: 05:43 11/07	Time Off Bottom: 08:43 11/07	

**Down Hole Makeup**

<b>Heads Up:</b> 27.5 FT	<b>Packer 1:</b> 4347.04 FT
<b>Drill Pipe:</b> 4346.97 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4352.04 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4336.46 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4423 FT
<b>Test Tool:</b> 33.57 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> 77.96	<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> 62.96 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 8 FT <i>4 1/2-FH</i>	


**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2731 EGL  
Field Name: Doll East  
Pool: Infield

**Operation:**

Uploading recovery &  
pressures

Job Number: 403  
API #: 15-101-22636-00-00

**DATE**

November

**07**

2019

**DST #2**

**Formation: Ft.  
Scott/Johnson**

**Test Interval: 4352 -  
4430'**

**Total Depth: 4430'**

Time On: 02:56 11/07

Time Off: 10:46 11/07

Time On Bottom: 05:43 11/07

Time Off Bottom: 08:43 11/07

**Mud Properties**

**Mud Type:** Chemical

**Weight:** 9.3

**Viscosity:** 56

**Filtrate:** 8.0

**Chlorides:** 3,000 ppm



**Operation:**

Uploading recovery &  
pressures

**Company: L. D. Drilling, Inc**  
**Lease: Watt #4-10**

SEC: 10 TWN: 16S RNG: 30W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
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**DST #2**

**Formation: Ft.  
Scott/Johnson**

**Test Interval: 4352 -  
4430'**

**Total Depth: 4430'**

Time On: 02:56 11/07

Time Off: 10:46 11/07

Time On Bottom: 05:43 11/07

Time Off Bottom: 08:43 11/07

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



2200

3300

3400

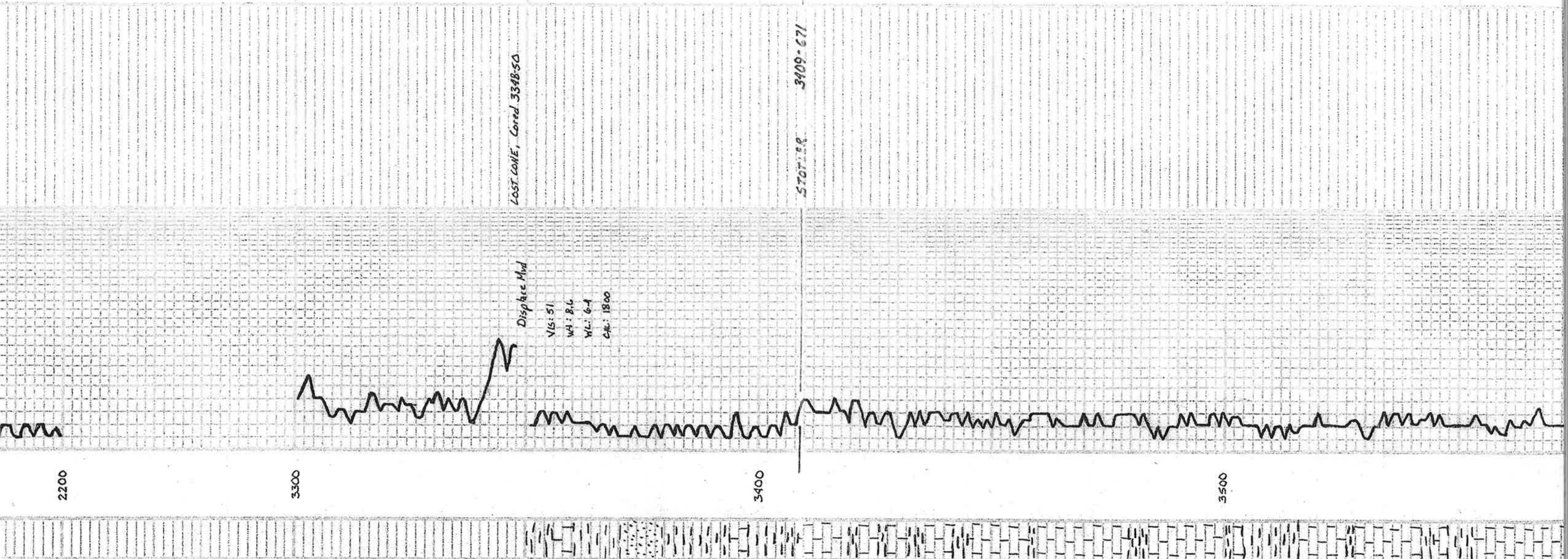
3500

LOST CONE, Cored 3348-50

STOPIER 3409-671

Displace Mud

VIS: 51  
WT: 8.6  
WL: 6.4  
CL: 1800





16. Cm Sil chly.

Sh. G.

15. Bl. Fossils Sil Foss.

15. w/ Sil Foss Sil chly.

15. Bl. Yool.

15. Bl. V. Fossils

15. w/ V. Sil Foss Sil chly.

15. Bl. V. Fossils Dns.

**MUNCIE CREEK 3995-1257**  
Sh. Bl. G. B.

15. Bl. V. Fossils Sil Foss.

Sh. Sand G.

15. Bl. Fossils

15. Bl. Some ool. Foss.

Sh. Bl. G. B. Foss.

Sh. L. G.

15. Bl. V. Sil ool.

15. Cm Bl. Foss/ool.

Sh. L. G.

15. Bl. Foss/ool.

15.

**STARK 4079-1341**  
Sh. Bl. G. B.

15. DE Bl. w/ Sil Foss F. ool.

15. Bl. Foss. F. A. P. V. of Sil. ool.

15. Bl. Foss/ool. pr. w/ p.

15. w/ V. chly.

15. w/ H. G. Sil Foss. w/ G. Foss.

**HUSHPUCKNEY 4124-1386**  
Sh. Bl. G. B.

15. Bl. Sil Foss Sil A.

15. w/ Sil Foss Sil A.

15. w/ L. G. Sil Foss Sil chly.

15. w/ Sil ool. Foss. Sil chly.

**B/KC 4165-1427**  
Sh. Bl. G. B.

15. Bl. w/ V. Sil Foss Sil A.

Sh. Bl. G. B. Silty

**MARMATON 4194-1456**

15. w/ L. G. V. Sil Foss

Sh. Bl. G. B. w/ L. G.

15. L. G. Sil A.

3900

M.C.

4000

DST (1)

4100

VIS: 59 WT: 94  
WC: 10.4 CM: 2560

4200

**DST (1) 4076-4104**  
150 DEN: Bottom bucket 6 1/2 min.  
2nd DEN: " " 9 1/2 "

30-45-45-60

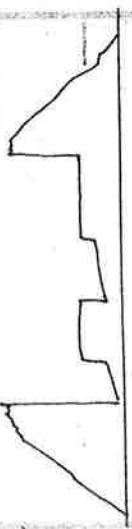
Re. 255' HW (272' W 36' A)  
340' V. HW (34' W 6' A)

315' WPT (1000' W)

Temp. 128°F

FD: 21-246 247-469 \*

Temp. 128°F



Total Sample  
6 1/2 Min.

297' WPT.

PH: 7.0

FW: 360,55 CF

RV: 1.65 @ 128°F

GR: 28,000

LS. 4 1/2 VS1A

LS. 4 1/2 w/ Red shale

Sh. 4 Blue. Soft.

Sh. 4 Blue.

LS. 4 VS1A

Sh. 4 1/2 SA

LS. 7 1/2 VS1A

VIS: 56 WT: 93  
WL: 8.5 CUL: 3000

**PAWNEE 4292-1554**

Sh. 4 1/2 DK

LS. w/ Sil Foss SA

LS. 7 1/2 VS1 Foss SA Sil. Caliche

LS. 7 1/2 Sil Foss.

Sh. 4 1/2 (2) 25 DK Bl. VS1 Foss.

Sh. 4 1/2

LS. 4 Sil cool Foss sil chills

LS. w/ sil. Foss.

Sh. 4 1/2 (2)

**FORT SCOT 4343-1605**

LS. 2 1/2 w/ sil SA

LS. 2 1/2

LS. 2 1/2 VS1A

LS. w/ Sil Foss VA

**CHEROKEE 4369-1631**

Sh. 4 1/2 (2)

LS. 2 1/2 VS1A

LS. 4 Sil Foss SA

Sh. 4 1/2

LS. 2 1/2 w/ sil SA

Sh. 4 1/2

**JOHNSON 4408-1670**

LS. 7 1/2 VS1 Foss VS1 chills. P. V. d. Sp. Bl. Sil. No. Foss. No. Foss. No. Foss. No. Foss.

LS. 7 1/2 VS1 Foss SA

LS. with Sil. Foss. Caliche. F. V. d. Bl. Sil. SA. Foss. No. Foss. No. Foss. No. Foss.

Sh. 4 1/2 w/ Dis. Foss. Sub. Bl.

Sh. 4 1/2

Sh. 4 1/2 w/ Dis. Foss. Sub. Bl.

Sh. 4 1/2

**MISSISSIPPI 4448-1710**

LS. 7 1/2 VS1 Foss SA

LS. 7 1/2

LS. 7 1/2 w/ sil chills

LS. 7 1/2 w/ sil chills

LS. 7 1/2 w/ sil chills

LS. 7 1/2

LS. 7 1/2 w/ sil SA

LS. 7 1/2 w/ sil SA

LS. 7 1/2 w/ sil chills

LS. 7 1/2 w/ sil SA

LS. 7 1/2

LS. 4 1/2 Sil cool. Sil SA

**DST (2) 4352-4430**

1. OPEN: Blow built to 1"

2. OPEN: Surface Blow

30. 45-45-60

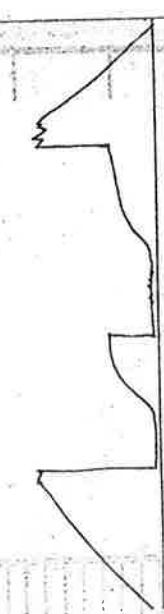
Rec. 10' Mud

FP: 13-16 16-30 ft

SIP: 908-861 x

Temp. 118° F

Total Sample 1000' Mud



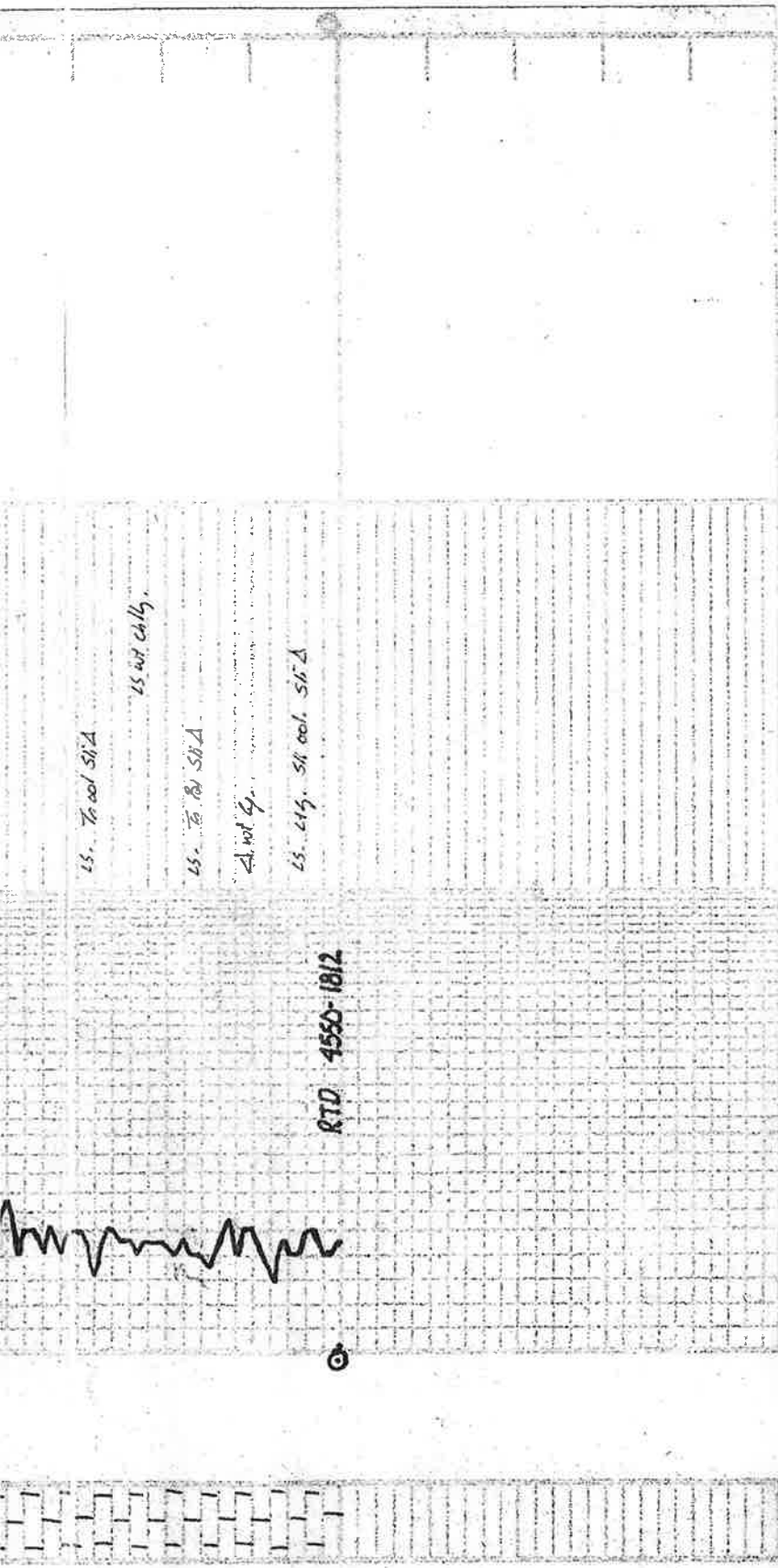
4300

4400

4500

DST (2)

VIS: 61 WT: 97  
WL: 10.4 CUL: 4000



13. 7600 S/A

15. 415. 511 001. S/A Δ

13. 7600 S/A

13. 415. 511 001. S/A Δ

RTD 4550-1B12









Customer <b>LD Drilling</b>	Lease No.	Date <b>10/30/2019</b>
Lease <b>W922</b>	Well # <b>4-10</b>	
Field Order # <b>18365</b>	Station <b>Pratt, KS</b>	Casing <b>8 5/8</b>
		Depth <b>285</b>
Type Job <b>242 / 8 5/8 Surface</b>	Formation <b>TD-288</b>	County <b>Lane</b>
		State <b>KS</b>
		Legal Description <b>10-16s-30w</b>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<b>8 5/8</b>							
Depth <b>285</b>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <b>18</b>	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <b>265</b>	Packer Depth	From	To	Flush <b>Water</b>	Gas Volume		Total Load

Customer Representative <b>Pick Wilson</b>	Station Manager <b>Justin Westergren</b>	Treater <b>Derin Franklin</b>
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Service Units	<b>92911</b>	<b>78982</b>	<b>19843</b>	<b>19960</b>	<b>21010</b>				
Driver Names	<b>Derin</b>	<b>Brett</b>	<b>Brett</b>	<b>Disz</b>	<b>Disz</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>10:30pm</b>					<b>on location / safety meetings</b>
					<b>265 SK Common Cement, 3% cc, 1/4" CP</b>
<b>1:45pm</b>	<b>200</b>		<b>3</b>	<b>5</b>	<b>Pump 3 bbls water</b>
	<b>200</b>		<b>57</b>	<b>5</b>	<b>mix 265 SK cement</b>
	<b>200</b>		<b>16 1/2</b>	<b>5</b>	<b>Displace 16 1/2 bbls water</b>
					<b>Shut down</b>
<b>2:15pm</b>					<b>Shut in</b>
					<b>Cement did circulate - 10 bbls</b>
					<b>Job complete / Derin &amp; crew</b>
					<b>Thank you!!!</b>