

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: Ritchie Exploration, Inc.

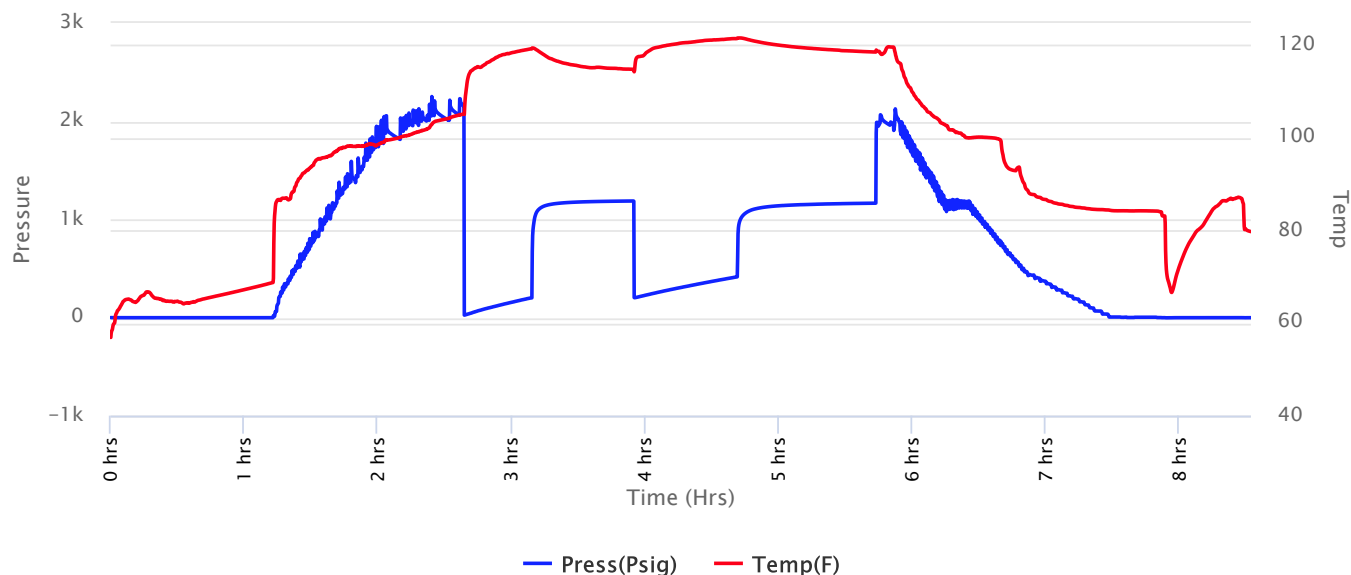
## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

**DATE**  
April  
**27**  
2018

**DST #1**      **Formation: Lansing**      **Test Interval: 4214 - 4280'**      **Total Depth: 4280'**  
I-j  
Time On: 10:27 04/27      Time Off: 18:44 04/27  
Time On Bottom: 13:00 04/27      Time Off Bottom: 16:00 04/27

Electronic Volume Estimate:	<u>1st Open</u> Minutes: 30 35.7" at 30 min	<u>1st Close</u> Minutes: 45 0" at 45 min	<u>2nd Open</u> Minutes: 45 45.3" at 45 min	<u>2nd Close</u> Minutes: 60 0" at 60 min
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# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
 County: WICHITA  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
 Elevation: 3311 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 149

**DATE**  
 April  
**27**  
 2018

**DST #1**      **Formation: Lansing I-j**      **Test Interval: 4214 - 4280'**      **Total Depth: 4280'**  
 Time On: 10:27 04/27      Time Off: 18:44 04/27  
 Time On Bottom: 13:00 04/27      Time Off Bottom: 16:00 04/27

Recovered

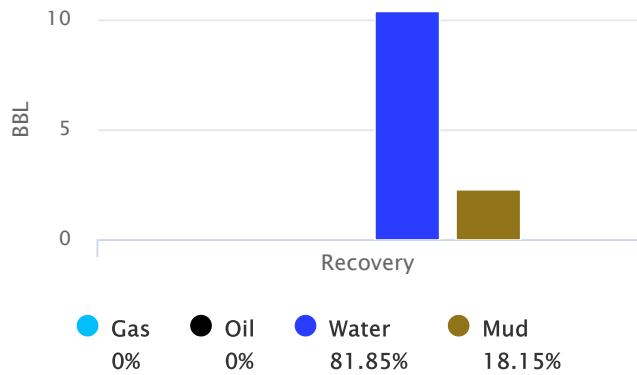
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
199	2.83177	HMCW	0	0	62	38
567	8.06841	SLMCW	0	0	85	15
126	1.79298	SLMCW	0	0	99	1

Total Recovered: 892 ft  
 Total Barrels Recovered: 12.69316

Reversed Out  
 NO

Initial Hydrostatic Pressure	2034	PSI
Initial Flow	24 to 200	PSI
<b>Initial Closed in Pressure</b>	<b>1185</b>	<b>PSI</b>
Final Flow Pressure	203 to 414	PSI
<b>Final Closed in Pressure</b>	<b>1165</b>	<b>PSI</b>
Final Hydrostatic Pressure	2009	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	1.7	%

### Recovery at a glance





**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>27</b> 2018
---

<b>DST #1</b>	<b>Formation: Lansing l-j</b>	<b>Test Interval: 4214 - 4280'</b>	<b>Total Depth: 4280'</b>
	Time On: 10:27 04/27	Time Off: 18:44 04/27	
	Time On Bottom: 13:00 04/27	Time Off Bottom: 16:00 04/27	

**REMARKS:**

if: 1/2 blow - bob at 9 min  
ic: nobb  
ff: 1/2 blow - bob at 11 min  
fc: nobb

tool sample : 99% w 1% m

Ph: 9

RW: .25 @ 80 degrees F

Chlorides: 24000 ppm



**Company: Ritchie Exploration, Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

**DATE**  
April  
**27**  
2018

**DST #1**      **Formation: Lansing I-j**      **Test Interval: 4214 - 4280'**      **Total Depth: 4280'**  
Time On: 10:27 04/27      Time Off: 18:44 04/27  
Time On Bottom: 13:00 04/27      Time Off Bottom: 16:00 04/27

**Down Hole Makeup**

**Heads Up:** 13.33 FT      **Packer 1:** 4209 FT  
**Drill Pipe:** 4194.76 FT      **Packer 2:** 4214 FT  
*ID-3 1/2*      **Top Recorder:** 4198.42 FT  
**Weight Pipe:** FT      **Bottom Recorder:** 0 FT  
*ID-2 7/8*      **Well Bore Size:** 7 7/8  
**Collars:** FT      **Surface Choke:** 1"  
*ID-2 1/4*      **Bottom Choke:** 5/8"  
**Test Tool:** 33.57 FT  
*ID-3 1/2-FH*  
*Jars*  
*Safety Joint*

**Total Anchor:** 66

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 2 FT  
*4 1/2-FH*

**Change Over:** 1 FT

**Drill Pipe: (in anchor):** 31.5 FT  
*ID-3 1/2*

**Change Over:** .5 FT

**Perforations: (below):** 30 FT  
*4 1/2-FH*



**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>27</b> 2018
---

<b>DST #1</b>	<b>Formation: Lansing</b>	<b>Test Interval: 4214 -</b>	<b>Total Depth: 4280'</b>
	<b>I-j</b>	<b>4280'</b>	
	Time On: 10:27 04/27	Time Off: 18:44 04/27	
	Time On Bottom: 13:00 04/27	Time Off Bottom: 16:00 04/27	

**Mud Properties**

**Mud Type:** Chemical    **Weight:** 9.2    **Viscosity:** 56    **Filtrate:** 6.4    **Chlorides:** 4000 ppm





# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
 County: WICHITA  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
 Elevation: 3311 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 149

**DATE**  
 April  
**28**  
 2018

DST #2    Formation: **Lansing k**    Test Interval: **4278 - 4308'**    Total Depth: **4308'**  
 Time On: 01:30 04/28    Time Off: 09:20 04/28  
 Time On Bottom: 04:14 04/28    Time Off Bottom: 06:44 04/28

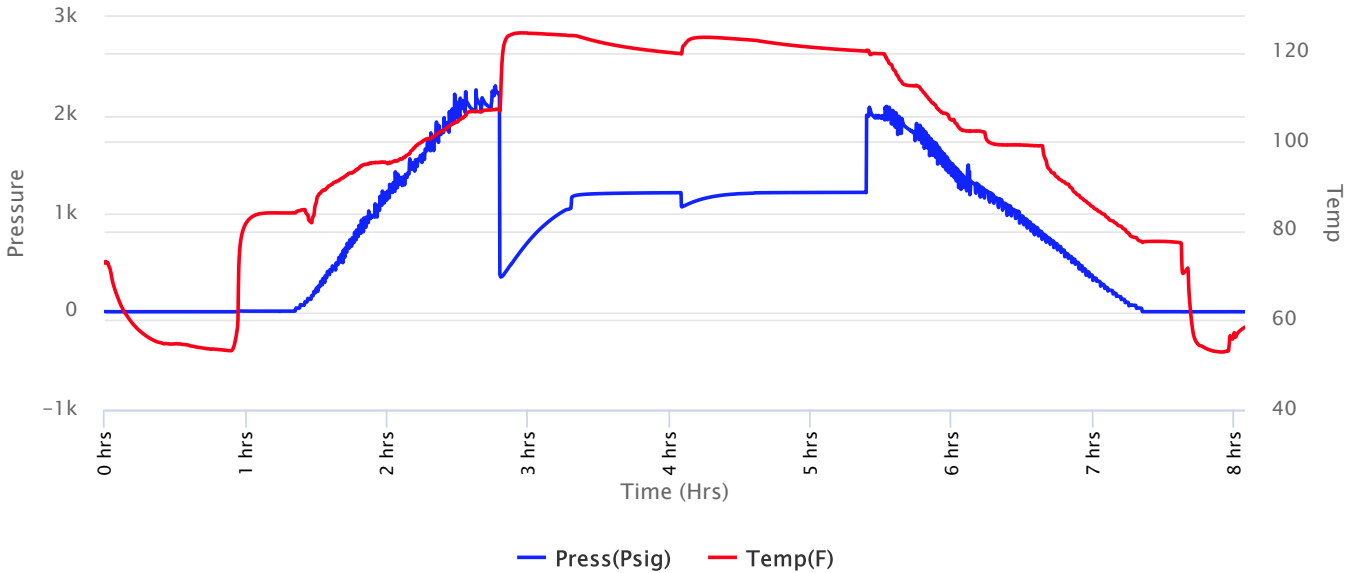
Electronic Volume Estimate:  
 4258'

1st Open  
 Minutes: 30  
 376" at 30 min

1st Close  
 Minutes: 45  
 0" at 45 min

2nd Open  
 Minutes: 30  
 72.7" at 30 min

2nd Close  
 Minutes: 45  
 0" at 45 min



— Press(Psig)    — Temp(F)



# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
 County: WICHITA  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
 Elevation: 3311 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 149

**DATE**

April  
**28**  
 2018

**DST #2 Formation: Lansing k Test Interval: 4278 - 4308' Total Depth: 4308'**

Time On: 01:30 04/28      Time Off: 09:20 04/28  
 Time On Bottom: 04:14 04/28      Time Off Bottom: 06:44 04/28

Recovered

<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
383	5.45009	HMCW	0	0	50	50
378	5.37894	SLMCW	0	0	95	5
1953	27.79119	SLMCW	0	0	99	1

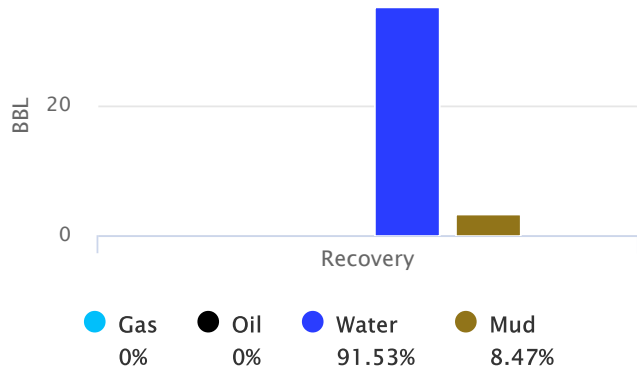
Total Recovered: 2714 ft

Total Barrels Recovered: 38.62022

Reversed Out  
 NO

Initial Hydrostatic Pressure	2099	PSI
Initial Flow	351 to 1051	PSI
<b>Initial Closed in Pressure</b>	<b>1210</b>	<b>PSI</b>
Final Flow Pressure	1067 to	PSI
<b>Final Closed in Pressure</b>	<b>1210</b>	<b>PSI</b>
Final Hydrostatic Pressure	<b>1214</b>	PSI
Temperature	2041	°F
	125	
Pressure Change Initial		%
Close / Final Close	0.0	

### Recovery at a glance





**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>28</b> 2018
---

<b>DST #2</b>	<b>Formation: Lansing k</b>	<b>Test Interval: 4278 - 4308'</b>	<b>Total Depth: 4308'</b>
	Time On: 01:30 04/28	Time Off: 09:20 04/28	
	Time On Bottom: 04:14 04/28	Time Off Bottom: 06:44 04/28	

**REMARKS:**

If: 2" blow - bob in 1 min

lc: nobb

Ff: 4" blow - bob in 1.5 min

Fc: nobb

Tool sample: 99% w - 1% m

Ph: 9

RW: .41 @ 45 degrees F

Chlorides: 26000 ppm



# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
 County: WICHITA  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
 Elevation: 3311 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 149

<b>DATE</b>
April
<b>28</b>
2018

<b>DST #2</b>	<b>Formation: Lansing k</b>	<b>Test Interval: 4278 - 4308'</b>	<b>Total Depth: 4308'</b>
	Time On: 01:30 04/28	Time Off: 09:20 04/28	
	Time On Bottom: 04:14 04/28	Time Off Bottom: 06:44 04/28	

### Down Hole Makeup

<b>Heads Up:</b> 12.91 FT	<b>Packer 1:</b> 4273 FT
<b>Drill Pipe:</b> 4258.34 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4278 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4262.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4281 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> 30	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"
<u>Anchor Makeup</u>	
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 28 FT <i>4 1/2-FH</i>	



**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>28</b> 2018
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<b>DST #2</b>	<b>Formation: Lansing k</b>	<b>Test Interval: 4278 - 4308'</b>	<b>Total Depth: 4308'</b>
	Time On: 01:30 04/28	Time Off: 09:20 04/28	
	Time On Bottom: 04:14 04/28	Time Off Bottom: 06:44 04/28	

**Mud Properties**

**Mud Type:** Chemical    **Weight:** 9.2    **Viscosity:** 56    **Filtrate:** 6.4    **Chlorides:** 4000 ppm



# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

**DATE**  
April  
**28**  
2018

**DST #3**      **Formation: Pleasanton**      **Test Interval: 4362 - 4387'**      **Total Depth: 4387'**  
Time On: 00:08 04/29      Time Off: 08:32 04/29  
Time On Bottom: 03:18 04/29      Time Off Bottom: 05:33 04/29

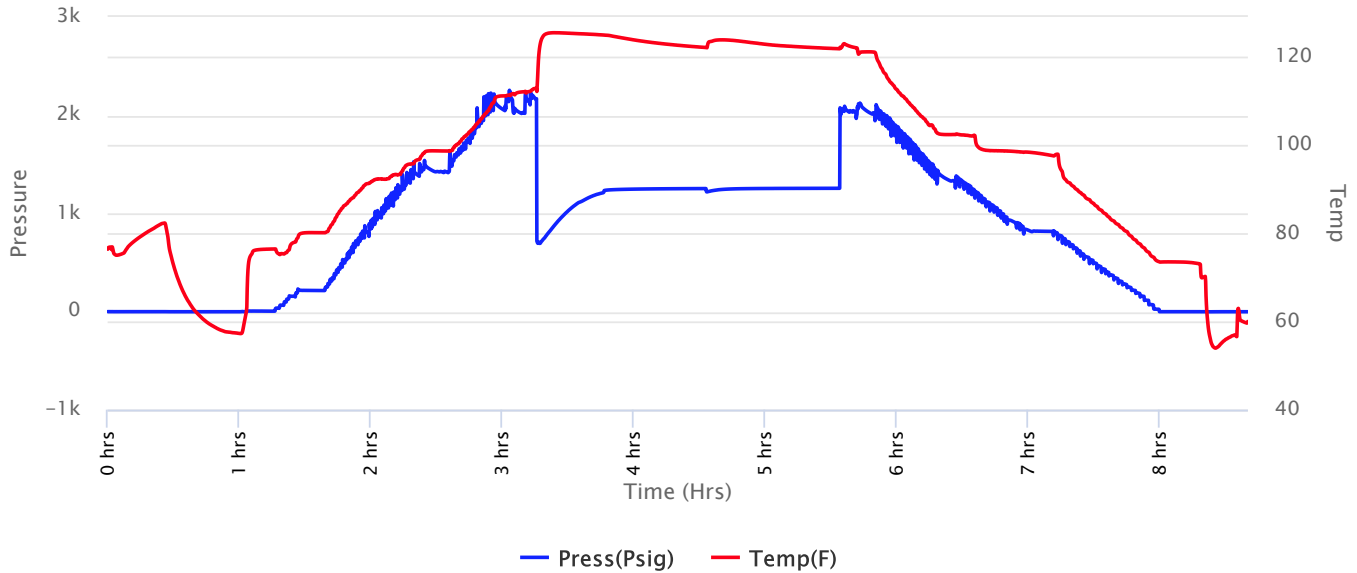
Electronic Volume Estimate:  
4352'

1st Open  
Minutes: 30  
415" at 30 min

1st Close  
Minutes: 45  
0" at 45 min

2nd Open  
Minutes: 30  
14.9" at 30 min

2nd Close  
Minutes: 30  
0" at 30 min





# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
 County: WICHITA  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
 Elevation: 3311 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 149

**DATE**  
 April  
**28**  
 2018

**DST #3**      **Formation: Pleasanton**      **Test Interval: 4362 - 4387'**      **Total Depth: 4387'**  
 Time On: 00:08 04/29      Time Off: 08:32 04/29  
 Time On Bottom: 03:18 04/29      Time Off Bottom: 05:33 04/29

Recovered

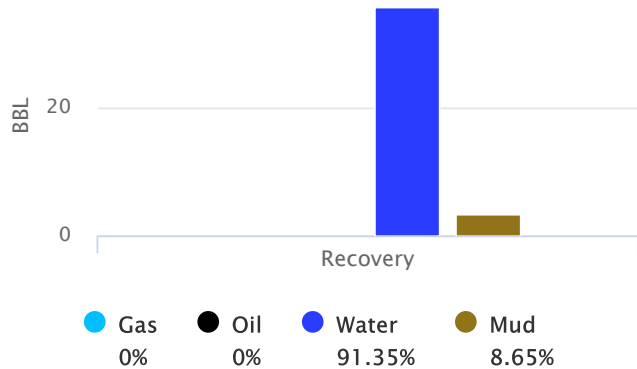
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
431	6.13313	HMCW	0	0	50	50
2331	33.17013	SLMCW	0	0	99	1

Total Recovered: 2762 ft  
 Total Barrels Recovered: 39.30326

Reversed Out  
 NO

Initial Hydrostatic Pressure	2025	PSI
Initial Flow	694 to 1211	PSI
<b>Initial Closed in Pressure</b>	<b>1252</b>	<b>PSI</b>
Final Flow Pressure	1219 to	PSI
<b>Final Closed in Pressure</b>	<b>1254</b>	<b>PSI</b>
Final Hydrostatic Pressure	<b>1255</b>	PSI
Temperature	2049	°F
	126	
Pressure Change Initial		%
Close / Final Close	0.0	

### Recovery at a glance





**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>28</b> 2018
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<b>DST #3</b>	<b>Formation:</b> Pleasanton	<b>Test Interval: 4362 - 4387'</b>	<b>Total Depth: 4387'</b>
	Time On: 00:08 04/29	Time Off: 08:32 04/29	
	Time On Bottom: 03:18 04/29	Time Off Bottom: 05:33 04/29	

**REMARKS:**

Blow exceeded max gauge pressure.

If: 4" Bob in 45sec

Ic: nobb

Ff: 2" bob in 5min

Fc: nobb

tool sample: 99w - 1 m

Ph: 8

RW: .35 @ 50 degrees F

Chlorides: 27000 ppm





# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>28</b> 2018
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**DST #3**      **Formation:** Pleasanton      **Test Interval:** 4362 - 4387'      **Total Depth:** 4387'  
Time On: 00:08 04/29      Time Off: 08:32 04/29  
Time On Bottom: 03:18 04/29      Time Off Bottom: 05:33 04/29

### Down Hole Makeup

<b>Heads Up:</b> 22.82 FT	<b>Packer 1:</b> 4357 FT
<b>Drill Pipe:</b> 4352.25 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4362 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4346.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4365 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>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Total Anchor:** 25

#### Anchor Makeup

**Packer Sub:** 1 FT

**Perforations: (top):** 1 FT  
*4 1/2-FH*

**Change Over:** FT

**Drill Pipe: (in anchor):** FT  
*ID-3 1/2*

**Change Over:** FT

**Perforations: (below):** 23 FT  
*4 1/2-FH*



**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>28</b> 2018
---

<b>DST #3</b>	<b>Formation:</b> <b>Pleasanton</b>	<b>Test Interval: 4362 - 4387'</b>	<b>Total Depth: 4387'</b>
	Time On: 00:08 04/29	Time Off: 08:32 04/29	
	Time On Bottom: 03:18 04/29	Time Off Bottom: 05:33 04/29	

**Mud Properties**

<b>Mud Type:</b> Chemical	<b>Weight:</b> 9.4	<b>Viscosity:</b> 64	<b>Filtrate:</b> 8.8	<b>Chlorides:</b> 6200 ppm
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**Company: Ritchie Exploration, Inc.**  
**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

**DATE**

April  
**29**  
2018

**DST #4 Formation: Altamont Test Interval: 4434 - Total Depth: 4468'**  
**a 4468'**

Time On: 18:53 04/29

Time Off: 02:22 04/30

Time On Bottom: 21:24 04/29

Time Off Bottom: 00:24 04/29

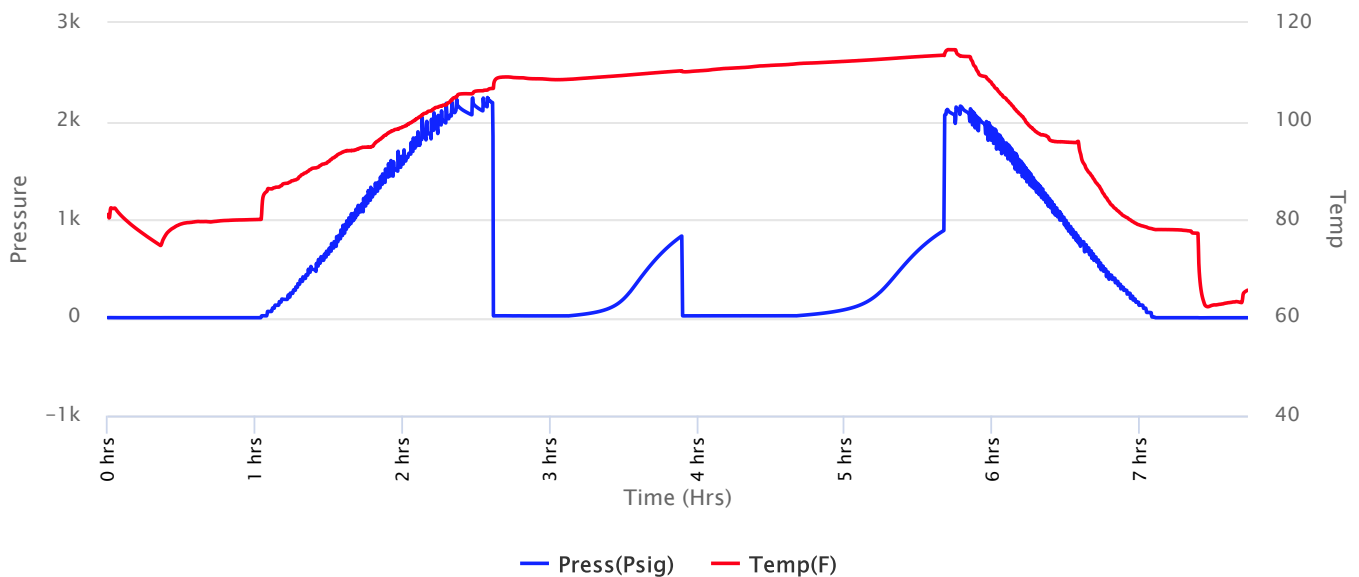
Electronic Volume Estimate:  
12'

1st Open  
Minutes: 30  
1" at 30 min

1st Close  
Minutes: 45  
0" at 45 min

2nd Open  
Minutes: 45  
0" at 45 min

2nd Close  
Minutes: 60  
0" at 60 min





# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
 County: WICHITA  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
 Elevation: 3311 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 149

**DATE**  
 April  
**29**  
 2018

**DST #4**      **Formation: Altamont a**      **Test Interval: 4434 - 4468'**      **Total Depth: 4468'**  
 Time On: 18:53 04/29      Time Off: 02:22 04/30  
 Time On Bottom: 21:24 04/29      Time Off Bottom: 00:24 04/29

Recovered

Foot	BBS
25	0.35575

Description of Fluid  
 SLOCM

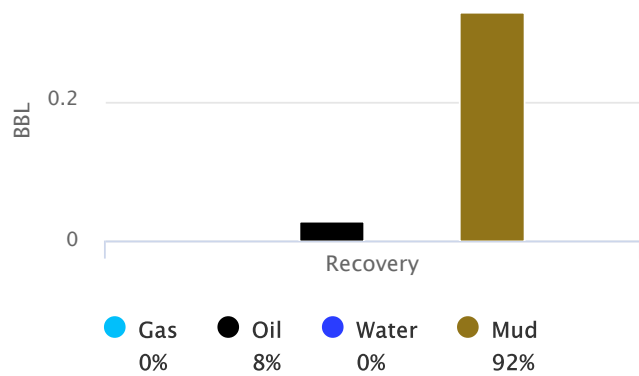
Gas %	Oil %	Water %	Mud %
0	8	0	92

Total Recovered: 25 ft  
 Total Barrels Recovered: 0.35575

Reversed Out  
 NO

Initial Hydrostatic Pressure	2138	PSI
Initial Flow	17 to 17	PSI
<b>Initial Closed in Pressure</b>	<b>828</b>	<b>PSI</b>
Final Flow Pressure	17 to 18	PSI
<b>Final Closed in Pressure</b>	<b>887</b>	<b>PSI</b>
Final Hydrostatic Pressure	2109	PSI
Temperature	114	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**





**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>29</b> 2018
---

<b>DST #4</b>	<b>Formation: Altamont a</b>	<b>Test Interval: 4434 - 4468'</b>	<b>Total Depth: 4468'</b>
	Time On: 18:53 04/29	Time Off: 02:22 04/30	
	Time On Bottom: 21:24 04/29	Time Off Bottom: 00:24 04/29	

**REMARKS:**

If: .5" built to 1"

lc: nobb

Ff: wsb no build

Fc: nobb

tool sample: 25o - 75m





**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>29</b> 2018
---

<b>DST #4</b>	<b>Formation: Altamont a</b>	<b>Test Interval: 4434 - 4468'</b>	<b>Total Depth: 4468'</b>
	Time On: 18:53 04/29	Time Off: 02:22 04/30	
	Time On Bottom: 21:24 04/29	Time Off Bottom: 00:24 04/29	

**Mud Properties**

**Mud Type:** Chemical    **Weight:** 9.4    **Viscosity:** 68    **Filtrate:** 9.6    **Chlorides:** 7000 ppm



# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

**DATE**  
April  
**30**  
2018

**DST #5 Formation: Altamont "B" Test Interval: 4466 - 4500' Total Depth: 4500'**

Time On: 12:56 04/30      Time Off: 20:42 04/30  
Time On Bottom: 14:52 04/30      Time Off Bottom: 17:52 04/30

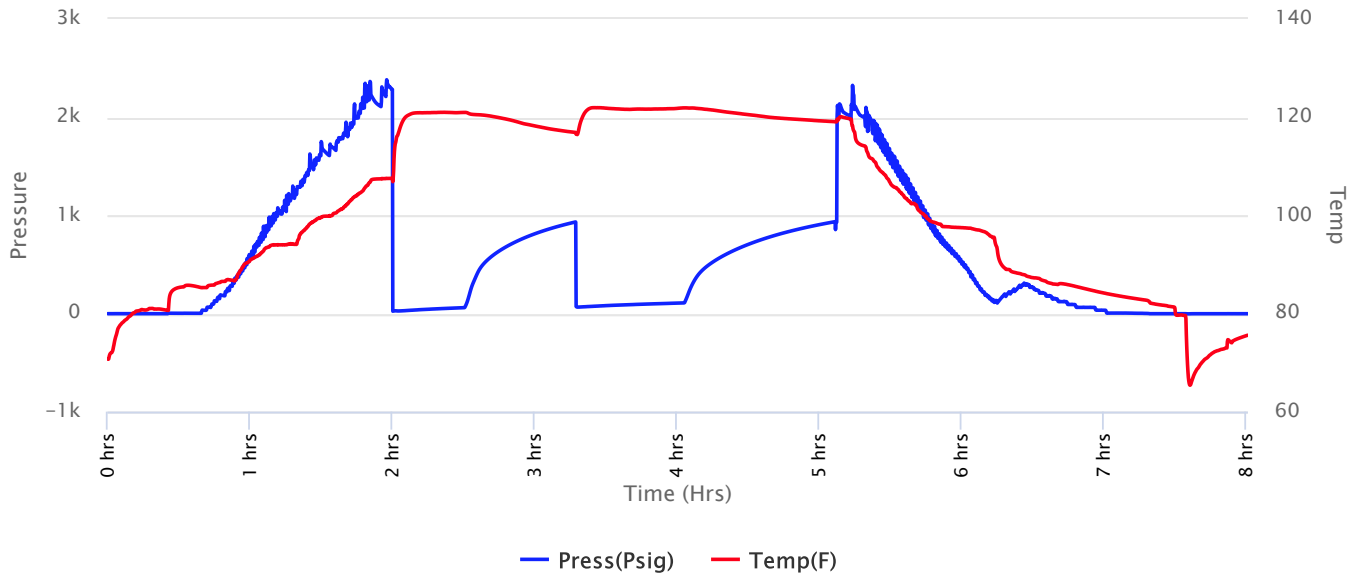
Electronic Volume Estimate:  
954'

1st Open  
Minutes: 30  
39.6" at 30 min

1st Close  
Minutes: 45  
5.8" at 45 min

2nd Open  
Minutes: 45  
32" at 45 min

2nd Close  
Minutes: 60  
5.7" at 60 min







# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
 County: WICHITA  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
 Elevation: 3311 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 149

**DATE**  
 April  
**30**  
 2018

**DST #5**      **Formation: Altamont "B"**      **Test Interval: 4466 - 4500'**      **Total Depth: 4500'**

Time On: 12:56 04/30      Time Off: 20:42 04/30  
 Time On Bottom: 14:52 04/30      Time Off Bottom: 17:52 04/30

Recovered

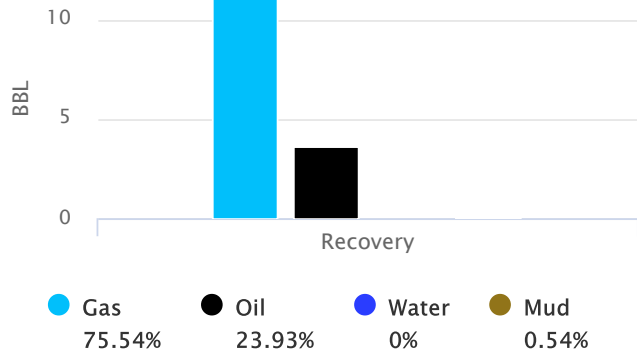
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
809	11.51207	G	100	0	0	0
237	3.37251	O	0	100	0	0
25	0.35575	MCO	0	77	0	23

Total Recovered: 1071 ft  
 Total Barrels Recovered: 15.24033

Reversed Out  
 NO

Initial Hydrostatic Pressure	2149	PSI
Initial Flow	23 to 59	PSI
<b>Initial Closed in Pressure</b>	<b>931</b>	<b>PSI</b>
Final Flow Pressure	71 to 108	PSI
<b>Final Closed in Pressure</b>	<b>936</b>	<b>PSI</b>
Final Hydrostatic Pressure	2109	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	0.0	%

### Recovery at a glance





**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> April <b>30</b> 2018
---

<b>DST #5</b>	<b>Formation: Altamont "B"</b>	<b>Test Interval: 4466 - 4500'</b>	<b>Total Depth: 4500'</b>
	Time On: 12:56 04/30	Time Off: 20:42 04/30	
	Time On Bottom: 14:52 04/30	Time Off Bottom: 17:52 04/30	

**REMARKS:**

IF: 1/2" Blow - BB in 5 mins  
IS: 5 3/4 BB  
FF: 1" Blow - BB in 11 1/2 mins  
FS: 5 3/4 BB

tool sample: 100% o

Gravity: 28.9 @ 60 degrees F



# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

**DATE**  
April  
**30**  
2018

**DST #5**      **Formation: Altamont "B"**      **Test Interval: 4466 - 4500'**      **Total Depth: 4500'**  
Time On: 12:56 04/30      Time Off: 20:42 04/30  
Time On Bottom: 14:52 04/30      Time Off Bottom: 17:52 04/30

### Down Hole Makeup

<b>Heads Up:</b> 12.69 FT	<b>Packer 1:</b> 4461 FT
<b>Drill Pipe:</b> 4446.12 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4466 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4450.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4469 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>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Total Anchor:** 34

#### Anchor Makeup

**Packer Sub:** 1 FT

**Perforations: (top):** 1 FT  
*4 1/2-FH*

**Change Over:** FT

**Drill Pipe: (in anchor):** FT  
*ID-3 1/2*

**Change Over:** FT

**Perforations: (below):** 32 FT  
*4 1/2-FH*



**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

**DATE**

April

**30**

2018

**DST #5 Formation: Altamont Test Interval: 4466 - Total Depth: 4500'**  
**"B" 4500'**

Time On: 12:56 04/30

Time Off: 20:42 04/30

Time On Bottom: 14:52 04/30

Time Off Bottom: 17:52 04/30

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.3

**Viscosity:** 56

**Filtrate:** 8.0

**Chlorides:** 6500 ppm



# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

**DATE**  
May  
**01**  
2018

**DST #6**      **Formation: Pawnee**      **Test Interval: 4506 - 4544'**      **Total Depth: 4544'**

Time On: 08:52 05/01      Time Off: 16:33 05/01  
Time On Bottom: 11:14 05/01      Time Off Bottom: 14:14 05/01

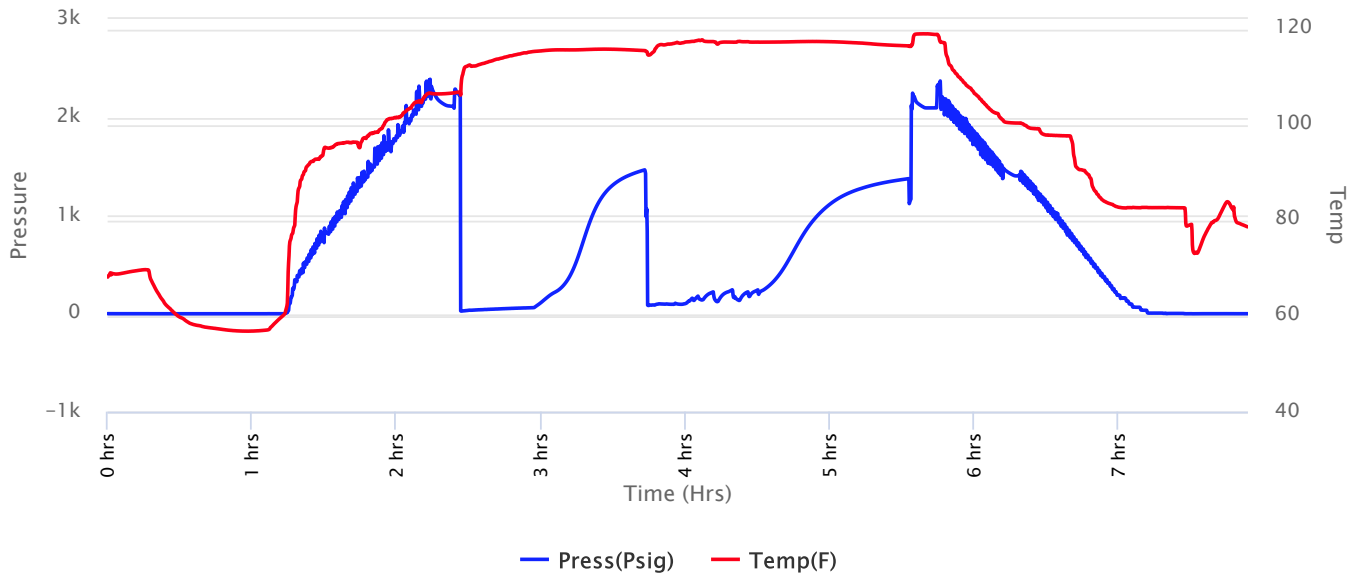
Electronic Volume Estimate:  
614'

1st Open  
Minutes: 30  
34.1" at 30 min

1st Close  
Minutes: 45  
0" at 45 min

2nd Open  
Minutes: 45  
16.5" at 45 min

2nd Close  
Minutes: 60  
0" at 60 min





# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
 County: WICHITA  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
 Elevation: 3311 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 149

**DATE**  
 May  
**01**  
 2018

**DST #6**      **Formation: Pawnee**      **Test Interval: 4506 - 4544'**      **Total Depth: 4544'**

Time On: 08:52 05/01      Time Off: 16:33 05/01  
 Time On Bottom: 11:14 05/01      Time Off Bottom: 14:14 05/01

Recovered

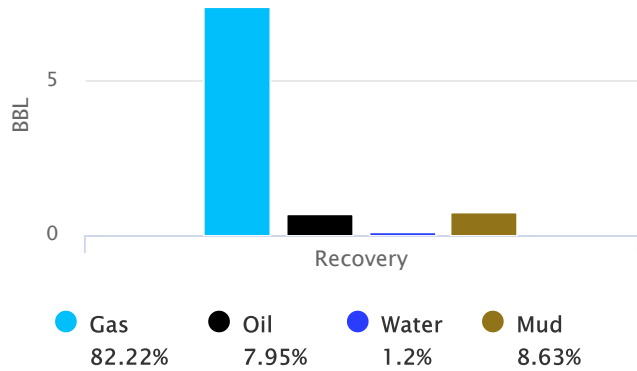
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
464	6.60272	G	100	0	0	0
40	0.5692	SLOGGCM	20	15	0	65
63	0.89649	SLWCMCHOCC	37	30	5	28
63	0.89649	SLWCSLMCHGCO	36	40	7	17

Total Recovered: 630 ft  
 Total Barrels Recovered: 8.9649

Reversed Out  
 NO

Initial Hydrostatic Pressure	2147	PSI
Initial Flow	27 to 60	PSI
<b>Initial Closed in Pressure</b>	<b>1464</b>	<b>PSI</b>
Final Flow Pressure	83 to 195	PSI
<b>Final Closed in Pressure</b>	<b>1373</b>	<b>PSI</b>
Final Hydrostatic Pressure	2119	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	6.2	%

### Recovery at a glance





**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> May <b>01</b> 2018
---

**DST #6      Formation: Pawnee      Test Interval: 4506 -      Total Depth: 4544'**  
**4544'**

Time On: 08:52 05/01      Time Off: 16:33 05/01  
Time On Bottom: 11:14 05/01      Time Off Bottom: 14:14 05/01

**REMARKS:**

Hit bridge 26 stands in..  
Was able to work through the spot....

If: 1" bob in 8.5min  
Ic: nobb  
Ff: .5" bob in 14.5 min  
Fc: wsb died off at end

tool sample: 98o - 2m



# Company: Ritchie Exploration, Inc.

## Lease: Wilbur Unit #1

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> May <b>01</b> 2018
---

**DST #6      Formation: Pawnee      Test Interval: 4506 - 4544'      Total Depth: 4544'**  
Time On: 08:52 05/01      Time Off: 16:33 05/01  
Time On Bottom: 11:14 05/01      Time Off Bottom: 14:14 05/01

### Down Hole Makeup

<b>Heads Up:</b> 35.66 FT	<b>Packer 1:</b> 4501 FT
<b>Drill Pipe:</b> 4509.09 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4506 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4490.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4509 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> 38	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	
<b>Packer Sub:</b> 1 FT	<b>Bottom Choke:</b> 5/8"
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 36 FT <i>4 1/2-FH</i>	





**Company: Ritchie Exploration,  
Inc.**

**Lease: Wilbur Unit #1**

SEC: 7 TWN: 17S RNG: 36W  
County: WICHITA  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 1  
Elevation: 3311 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 149

<b>DATE</b> May <b>01</b> 2018
---

<b>DST #6</b>	<b>Formation: Pawnee</b>	<b>Test Interval: 4506 - 4544'</b>	<b>Total Depth: 4544'</b>
	Time On: 08:52 05/01	Time Off: 16:33 05/01	
	Time On Bottom: 11:14 05/01	Time Off Bottom: 14:14 05/01	

**Mud Properties**

<b>Mud Type:</b> Chemical	<b>Weight:</b> 9.5	<b>Viscosity:</b> 63	<b>Filtrate:</b> 10.4	<b>Chlorides:</b> 8000 ppm
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### #1 Wilbur Unit

1669' FSL & 2388' FWL

19' N & 78' E of SE NE SW Section 7-17S-36W

Wichita County, Kansas

API# 15-203-20333-0000

Elevation: GL: 3311', KB: 3323'

Sample Tops			Ref. Well
Anhydrite	2476'	+846	+1
B/Anhydrite	2494'	+828	+2
Stotler	3584'	-262	-5
Heebner	3960'	-638	-2
Toronto	3974'	-652	+1
Lansing	4006'	-684	-1
Muncie	4190'	-868	-3
Stark	4282'	-960	-3
Hush	4334'	-1012	-3
BKC	4373'	-1051	-3
Marmaton	4432'	-1110	-1
Altamont	4445'	-1123	Flat
Pawnee	4517'	-1195	Flat
Myrick	4563'	-1241	Flat
Ft. Scott	4574'	-1252	+1
Cherokee	4602'	-1280	Flat
Johnson	4710'	-1388	Flat
Morrow	4766'	-1444	-4
Mississippian	4857'	-1535	+1
RTD	4940'	-1618	

# GLOBAL OIL FIELD SERVICES, LLC

3823

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>3-19-18</u>	SEC. <u>7</u>	TWP. <u>17</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>11:00pm</u>
LEASE <u>Wilbur</u>	WELL# <u>1</u>	LOCATION <u>Bulk March of Leoti KS 1 1/2</u>			COUNTY <u>Wichita</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)			Type <u>Surface</u>				

CONTRACTOR <u>Duke Drilling Rig #1</u>	OWNER <u>Ritchie Exploration</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>268'</u>
CASING SIZE <u>8 5/8</u>	DEPTH
TUBING SIZE <u>2</u>	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LBFT IN CSG.	
PERFS	
DISPLACEMENT	
EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Brad</u>
# <u>409</u>	HELPER <u>Brad</u>
BULK TRUCK	
#	DRIVER <u>TOBY</u>
BULK TRUCK:	
#	DRIVER

CEMENT	
AMOUNT ORDERED <u>1805x CON 3% cc</u>	
<u>2% gel</u>	
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
	@
	@
	@
	@
	@
	@
	@
	@
HANDLING	@
MILEAGE	
TOTAL	

REMARKS:  
Run six j of 8 5/8 casing + 1 1/2' Handed  
to rig established circulation hooked  
to pump truck pumped 180 cc of cement  
displaced 15.5 bbls of H2O and shut in.  
Cement did circulate to surface.

CHARGE TO: Ritchie Exploration  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Global Oil Field Services, LLC  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mike Godfrey  
SIGNATURE Mike Godfrey

SERVICE	
DEPTH OF JOB	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE	@
MILEAGE	@
MANIFOLD	@
	@
	@
TOTAL	

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
TOTAL	

SALES TAX (if Any) \_\_\_\_\_  
TOTAL CHARGES \_\_\_\_\_  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



10693/10594

TICKET NUMBER 55150  
LOCATION Oakley, KS  
FOREMAN Walt Drake

PRESSURE PUMPING LLC  
PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT  
CEMENT

INVOICE #813190 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
5-9-18	7173	Wilbur Unit #1	7	173	36 W	Wichita	
CUSTOMER		Ritchie Explorations		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		2001 North 70 Rd # 1/4 E 4 S		753	Travis Williams		
CITY		STATE	ZIP CODE	530-TL29	Neil White		
Wichita		KS	67278-3188				

JOB TYPE Port collar HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 4 1/2"  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING 2 3/8 - 2445' OTHER PC 2448  
 SLURRY WEIGHT 1250 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 9 1/2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting, Sig up Equipment, Test Casing to 1200', Held, open Tool, pump into to 800' 4 BPM, mixed 425 SKs 694ppm 8% w/ 14# Flo Seal, 500# Hulls, cure to surface, Displace 8 1/2 Dlx H2O, Shut Tool and test to 1200', Held, ran 5 Jts, cure Clean Came out w/ tubing, head casing + pressure to 500', Shut in

Thank You  
Walt + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
Ceo451	1	PUMP CHARGE	1,900.00	1,900.00
Ceo002	45	MILEAGE	7.15	321.75
Ceo710	18.28	Ten Mileage Delivery	1.75	1,439.50
CC5831	425 - sks	Lite Weight Blend VII	17.50	7,437.50
CC6075	106 #	Flo Seal	3.00	318.00
CC6080	500 #	Hulls	1.00	500.00
				11,916.00
		Less 30%		3,575.00
				8,341.00
		8.5% SALES TAX		491.20
		ESTIMATED TOTAL		8832.20

Ravin 3737

AUTHORIZATION Cory Rowe TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Services, Inc.

CHARGE TO: Ritchie Exploration  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 031393

PAGE 1 OF 2

SERVICE LOCATIONS: 1000 Hwy 15

WELL/PROJECT NO. F1 LEASE WILBUR COUNTY/PARISH DICHA 174 STATE LA CITY Resti DATE 4 May 18 OWNER \_\_\_\_\_

TICKET TYPE  SERVICE  SALES CONTRACTOR \_\_\_\_\_ RIG NAME/NO. \_\_\_\_\_ SHIPPED  DELIVERED TO location ORDER NO. \_\_\_\_\_

WELL TYPE G-1 WELL CATEGORY Development JOB PURPOSE Conduct long string WELL PERMIT NO. \_\_\_\_\_

WELL LOCATION 7-17-36

REFERRAL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	80	mi			5.00	400.00
578					TOE W/						
403					Pump Placer	1	ea			1300.00	1300.00
404					Concrete Basket	1	ea			2500.00	2500.00
406					Post Collar	1	ea			2400.00	2400.00
407					Attach down pipe & bell hole	1	ea			225.00	225.00
409					Insert float shoe w/ mud fill	1	ea			300.00	300.00
					TURSD LIZER	1	ea			70.00	70.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OF CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR BC Bell APPROVAL \_\_\_\_\_

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PAGE TOTAL

TOTAL 13856.76

13856.76  
 -13856.76  
 18471.08  
 823.29

13894.87

Thank You!





PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 31393

CUSTOMER Ritchie Exploration

WELL W. 1605-41

DATE 4 MAY 18 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE		UNIT PRICE	AMOUNT
		LOC	ACCT	DR			QTY	U/M	QTY	U/M		
325					1	Standard Count	260	SK			13.00	3380.00
279					1	Bentone gel	4	SK			30.00	120.00
283					1	SALT	1400	Lb			0.20	280.00
<del>286</del>	292				1	halad 322	100	Lb			8.00	800.00
277					1	Glycolite	1300	Lb			0.85	1105.00
281					1	MudFlush	500	gal			1.50	750.00
221					1	KCl Liquid	2	gal			25.00	50.00
290					1	D-Air	1	gal			42.00	42.00
581					1	SERVICE CHARGE					1.75	455.00
583					1	MILEAGE CHARGE					0.83	939.76
							2160	CUBIC FEET				
							20	TON MILES				
							27640	LOADED MILES				
							1105.6	TON MILES				

CONTINUATION TOTAL 7921.76