

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) (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: Weilert-Collins #1

SEC: 28 TWN: 16S RNG: 37W
 County: WICHITA
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 3369 GL
 Field Name: Wildcat
 Pool: Wildcat
 Job Number: 345
 API #: 15-203-2030357

Operation:
 Uploading recovery & pressures

Tester: Wil Steinbeck
 On-Site Contact: Max Lovely

DATE
 May
12
 2019

DST #1 **Formation: Lan A** **Test Interval: 4053 - 4096'** **Total Depth: 4096'**
 Time On: 14:19 05/12 Time Off: 21:24 05/12
 Time On Bottom: 16:35 05/12 Time Off Bottom: 18:35 05/12

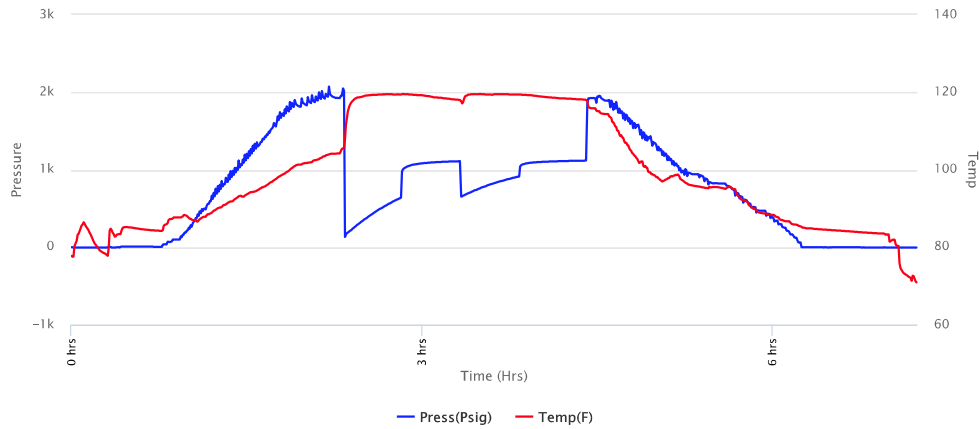
Electronic Volume Estimate:
 2367"

1st Open
 Minutes: 30
 Current Reading:
 154" at 30 min
 Max Reading: 154"

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

2nd Open
 Minutes: 30
 Current Reading:
 90.1" at 30 min
 Max Reading: 90.1"

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



<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>					
2350	31.7061401	SLMCW	0	0	95	5

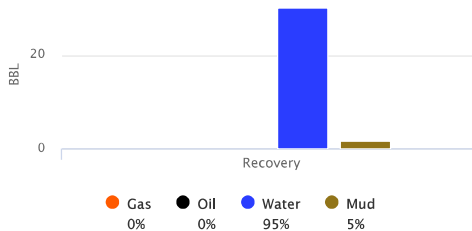
Total Recovered: 2350 ft
 Total Barrels Recovered: 31.7061401

Reversed Out
 NO

Initial Hydrostatic Pressure	1930	PSI
Initial Flow	135 to 642	PSI
Initial Closed in Pressure	1112	PSI
Final Flow Pressure	654 to 915	PSI
Final Closed in Pressure	1120	PSI
Final Hydrostatic Pressure	1926	PSI
Temperature	120	°F

Pressure Change Initial Close / Final Close: 0.0 %

Recovery at a glance



GIP cubic foot volume: 0

BUCKET MEASUREMENT:

1st Open: BOB in 3 min
 1st Close: No Blow
 2nd Open: BOB in 3 min
 2nd Close: No Blow

REMARKS:

Tool plugged with cuttings.

Chlorides: 26000 ppm



Company: Ritchie Exploration, Inc.

Lease: Weilert-Collins #1

SEC: 28 TWN: 16S RNG: 37W
County: WICHITA
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 12
Elevation: 3369 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 345
API #: 15-203-2030357

Operation:
Test Complete

DATE
May
14
2019

DST #2 **Formation: Altamont** **Test Interval: 4510 - 4536'** **Total Depth: 4536'**

Time On: 22:24 05/14 Time Off: 07:28 05/15
Time On Bottom: 01:41 05/15 Time Off Bottom: 04:41 05/15

Electronic Volume Estimate:
74'

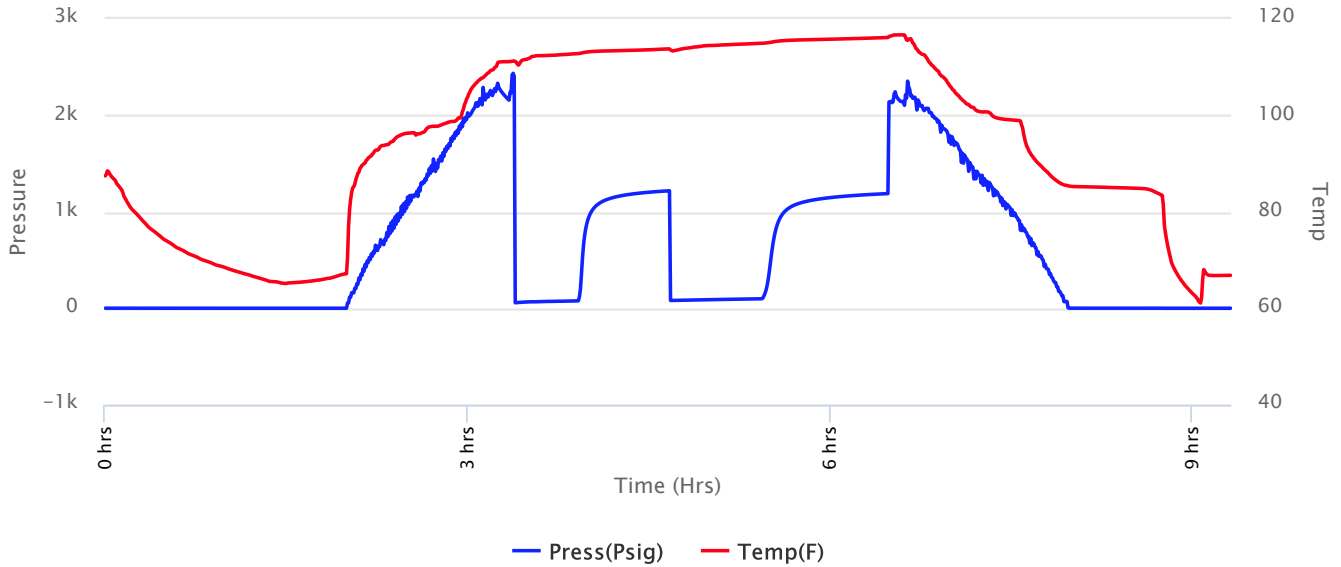
1st Open
Minutes: 30
Current Reading:
1.5" at 30 min
Max Reading: 1.5"

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

2nd Open
Minutes: 45
Current Reading:
.6" at 45 min
Max Reading: .6"

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

Inside Recorder





Company: Ritchie Exploration, Inc.

Lease: Weilert-Collins #1

SEC: 28 TWN: 16S RNG: 37W
 County: WICHITA
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 3369 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 345
 API #: 15-203-2030357

Operation:
 Test Complete

DATE
 May
14
 2019

DST #2 Formation: Altamont Test Interval: 4510 - 4536' Total Depth: 4536'

Time On: 22:24 05/14 Time Off: 07:28 05/15
 Time On Bottom: 01:41 05/15 Time Off Bottom: 04:41 05/15

Recovered

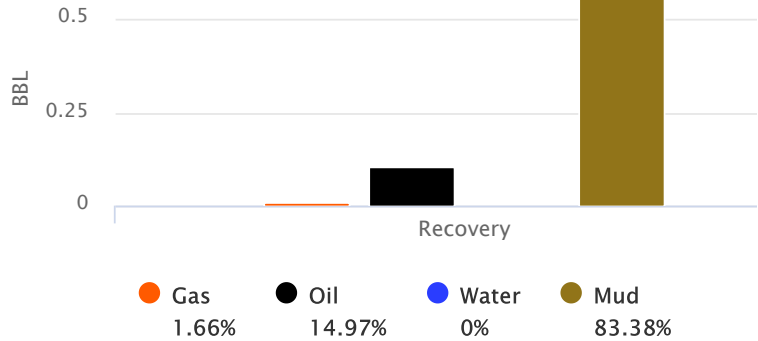
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
25	0.123	HOCM	0	46	0	54
60	0.2952	SLOCM	0	6	0	94
60	0.2952	SLGCSLOCM	4	11	0	85

Total Recovered: 145 ft
 Total Barrels Recovered: 0.7134

Reversed Out
 NO

Initial Hydrostatic Pressure	2156	PSI
Initial Flow	57 to 78	PSI
Initial Closed in Pressure	1217	PSI
Final Flow Pressure	81 to 98	PSI
Final Closed in Pressure	1188	PSI
Final Hydrostatic Pressure	2155	PSI
Temperature	117	°F
Pressure Change Initial Close / Final Close	2.4	%

Recovery at a glance



GIP cubic foot volume: 0.0663



**Company: Ritchie Exploration,
Inc.**

Lease: Weilert-Collins #1

SEC: 28 TWN: 16S RNG: 37W
County: WICHITA
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 3369 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 345
API #: 15-203-2030357

Operation:
Test Complete

DATE
May
14
2019

DST #2 Formation: Altamont Test Interval: 4510 - Total Depth: 4536'
4536'

Time On: 22:24 05/14 Time Off: 07:28 05/15
Time On Bottom: 01:41 05/15 Time Off Bottom: 04:41 05/15

BUCKET MEASUREMENT:

1st Open: Surface blow building to 1"
1st Close: No BB
2nd Open: Surface blow building to 1/4"
2nd Close: No BB

REMARKS:

Tool Sample: 2% Gas 19% Oil 0% Water 79% Mud



Company: Ritchie Exploration, Inc.

Lease: Weilert-Collins #1

SEC: 28 TWN: 16S RNG: 37W
County: WICHITA
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 12
Elevation: 3369 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 345
API #: 15-203-2030357

Operation:
Test Complete

DATE
May
14
2019

DST #2 **Formation: Altamont** **Test Interval: 4510 - 4536'** **Total Depth: 4536'**
Time On: 22:24 05/14 Time Off: 07:28 05/15
Time On Bottom: 01:41 05/15 Time Off Bottom: 04:41 05/15

Down Hole Makeup

Heads Up: 9.8300000000002 FT	Packer 1: 4504.5 FT
Drill Pipe: 4300.47 FT <i>ID-3 1/2</i>	Packer 2: 4510 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4493.92 FT
Collars: 186.29 FT <i>ID-2 1/4</i>	Bottom Recorder: 4512 FT
Test Tool: 34.07 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7.875
Total Anchor: 26	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 25 FT <i>4 1/2-FH</i>	



**Company: Ritchie Exploration,
Inc.**

Lease: Weilert-Collins #1

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County: WICHITA
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 3369 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 345
API #: 15-203-2030357

Operation:
Test Complete

DATE
May
14
2019

DST #2 Formation: Altamont Test Interval: 4510 - Total Depth: 4536'
4536'

Time On: 22:24 05/14 Time Off: 07:28 05/15
Time On Bottom: 01:41 05/15 Time Off Bottom: 04:41 05/15

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 52 **Filtrate:** 8.8 **Chlorides:** 5,800 ppm



Company: Ritchie Exploration, Inc.

Lease: Weilert-Collins #1

SEC: 28 TWN: 16S RNG: 37W
County: WICHITA
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 12
Elevation: 3369 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 345
API #: 15-203-2030357

Operation:
Test Complete

DATE
May
14
2019

DST #2 Formation: Altamont Test Interval: 4510 - 4536' Total Depth: 4536'

Time On: 22:24 05/14 Time Off: 07:28 05/15
Time On Bottom: 01:41 05/15 Time Off Bottom: 04:41 05/15

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D

Max R. Lovely

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **Bitchie Exploration**

LEASE #1: **Waldert-Collins**

FIELD: **Waldert-Collins**

LOCATION: **849E-16-37W**

COUNTY: **Wichita** STATE: **KS**

CONTRACTOR: **WV #2**

SHOULDER: **5-18-19**

RID: **5020** LID: **5019**

MUD UP: **3366** TYPE: **MUD CHAIN**

FORMATION TOPS AND STRUCTURAL POSITION

ELEVATIONS

KB: **3376**

DF: **3368**

MEASUREMENTS: **ARE ALL**

FORM: **KB**

CASING: **2 1/2"**

PRODUCTION: **2 1/2"**

ELECTRICAL SIGNATURES

COMP: **N/P** S.W.C.

FORMATION	SHAPE	TOP	ELECTRIC LOG TOP	SUB-SEA	A	B	C
Redstart	2576	2572	824	804	808		
Basal Anhydrite	3831	3833	257	253	253		
Stotler	4019	4018	840	842	842		
Headier	4032	4033	820	820	820		
Landing	4039	4250	874	874	874		
Landing	4444	4441	1065	1076	1061		
BKC	4510	4511	1135	1139	1128		
Altamont	4588	4588	1222	1225	1211		
Pawnee	4650	4644	1268	1278	1265		
Fl. Scott	4673	4672	1286	1305	1281		
Cherokee	4789	4780	1404	1414	1382		
Johnson	4841	4830	1480	1485	1453		
Mississippian							

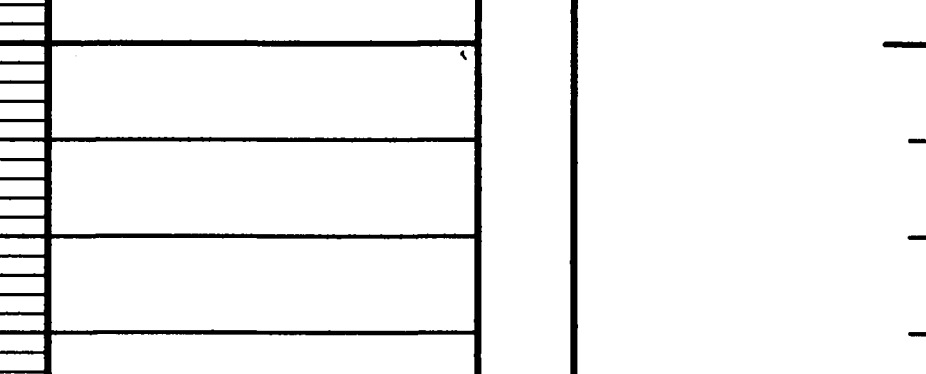
REFERENCE WELLS FOR STRUCTURE

A STRONG OIL FIELD WITH STRONG SW NE TENDENCY

LOCATED IN CARROLL COUNTY, MISSOURI, SEC. 16-37W

REMARKS

LEGEND



DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases

5" 10" 15" 20" 25"

DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
2550	ANHYDRITE			
2576 + 800	BASE ANHYDRITE			
3500				
3600	STOTLER	3631 - 255		
3700		LS, TAN, F, XTLM, HRD, V SL DNS, FOS, F, NS		START SAMPLES
		LS, GRV, F, M XTLM, HRD, SL DNS, FOS, NO VIS F, NS		7:AM 5-11-19 DRLG @ 3708'
		A.A. SL CHLKY		
		LS, TAN, CRM, WHT, M HRD, NO VIS F, NS		
		LS, TAN, V F XTLM, DNS, HRD, V TITE, REXT'D FRACS, NS		
		LS, CRM, TAN, M CRSS XTLM, BATTLE, M HRD, FEW FOS, NS		MUD CHECK VIS: 5.2 WT: 8.8 CLROR: 4,000 LCM: 3 FILT: 8.4
		LS, GRV, V F XTLM, DNS, HRD, TITE, NS		
3800		LS, TAN, CRM, F, M XTLM, HRD, FOS, P, NS		
		A.A.		
		SH, GRV		
		LS, GRV, M XTLM, ABUN FOS, V BATTLE, P, NS		
		SH, V TRASHY		
		LS, BUFF, F, M XTLM, V HRD, F, G XTLM F, NS		
		LS, BUFF, F, M XTLM, V BATTLE, SOFT, NO VIS F, NS		
		DOLO, BUFF, SUCR, M HRD, NO VIS F, NS		
3900		LS, TAN, F, XTLM, HRD, V SL FOS, SET TAN CHALK, NS		
		LS, TAN, F, XTLM, HRD, V SL FOS, BATTLE, FEW FOS, NO VIS F, NS		
		SH, GRV, V SUDY, F, CLR GRV, W SORT, NS		
		A.A.		
		A.A.		
		LS, WHT, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4000		TRASHY SAMPLES		SHORT TRIP @ 3990' 33 STNDS
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4100		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4200		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4300		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4400		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4500		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4600		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4700		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4800		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
4900		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		
		A.A.		
		SH, BLK, GRV		
		LS, TAN, BUFF, F, XTLM, SL DNS, HRD, NO VIS F, NS		
		A.A.		
5000		TRASHY SAMPLES		SHORT TRIP @ 4062'
		SH, BLK		DST #1 4053 - 4096 30-30-30-30
		LS, CRM, F, XTLM, V HRD, DNS, TITE, NS		RES: 2350' SL M CW FP: 135-642.654-915 SIP: 1112-1120 HP: 1930-1926
		CHALK		
		LS, CRM, WHT, F, XTLM, SL BATTLE, F, XTLM F, NS		
		LS, BUFF, WHT, F, XTLM, HRD, V CHTY-WHT, NS		
		LS, CRM, V F XTLM, DNS, HRD, SET FRACS, MOSTLY TITE, NS		7:AM 5-12-19 DRLG @ 4062'
		LS, WHT, M CRSS XTLM, M HRD, SET FRACS, MOSTLY TITE, NS		
		LS, TAN, F, XTLM, M HRD, SL FOS, F, XTLM F, NS		
		LS, TAN, GRV, F, XTLM, HRD, ABUN FOS, P, FOS, NS		



RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#1 Weilert-Collins

849' FSL & 2,450' FWL

141' S & 140' E of NE SE SW Section 28-16S-37W

Wichita County, Kansas

API# 15-203-20357-0000

Elevation: GL: 3,368', KB: 3,376'

Sample Tops			Ref. Well
Anhydrite	2557	+819	-2
B/Anhydrite	2577	+799	-5
Stotler	3631	-255	-2
Heebner	4019	-643	Flat
Toronto	4034	-658	+2
Lansing	4069	-693	+2
Muncie	4251	-875	+4
Stark	4348	-972	+3
Hush	4396	-1020	+5
BKC	4444	-1068	+8
Altamont	4510	-1134	+5
Pawnee	4598	-1222	+3
Myrick	4634	-1258	+3
Ft. Scott	4650	-1274	+4
Cherokee	4673	-1297	+8
Johnson	4789	-1413	+1
Morrow	4846	-1470	+15
Miss	4941	-1565	+20
RTD	5020	-1644	



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

100803
40703

TICKET NUMBER 56120
LOCATION Dakota Ks
FOREMAN Walt Dunkel

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #900836

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
5-7-19	7173	Weilert Collins #1	2B	16 ^s	37 ^w	Lincoln	
CUSTOMER		leaf north to Rd G		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		3-west to Rd 9		760	Kaleb Compton		
7173		14-6E		70	Kaleb Compton		
Wichita		KS		1098	Walt Dunkel		
STATE		ZIP CODE					
KS		67178					

JOB TYPE Surface HOLE SIZE 12 1/4 3180 HOLE DEPTH 251 CASING SIZE & WEIGHT 85/8 23#
 CASING DEPTH 251 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15-20'
 DISPLACEMENT 14.65 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.63M

REMARKS: Safety Meeting, rig up on WW #12, cure casing on bottom mixed 200 s/s Cem, 3% CC - 2% Gel, Displace 14.65 BBL H₂O. Shut in Cement did Cure in Callow

Thank You
Walt & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
C00471	1	PUMP CHARGE	1150.00	1150.00
C00002	4.5	MILEAGE	715	3217.50
C00710	9.4	Ton Mileage Delivery	125	1175.00
C05871	200 s/s	Surface Blend II	24.00	4800.00
				7012.00
				1753.00
				5259.00
				306.00
				5565.00

51145

Walt Dunkel

Rev 3737 AUTHORIZATION Calvin Dunkel TITLE Tool Pusher DATE 5-7-19

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

SCANNED



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

100537
 40737

TICKET NUMBER 56049
 LOCATION Oakley, Ks
 FOREMAN Cory Davis

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice # 900868

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-18-19	7173	Weilert - Collus #1	28	16 ^s	37 ^w	Wichita
CUSTOMER Ritchie Expro.						
MAILING ADDRESS P.O. Box 783188						
CITY Wichita						
STATE KS						
ZIP CODE 67278-3188						
TRUCK #	DRIVER	TRUCK #	DRIVER			
731	Neil W.					
172 T127	Mateo U.					

JOB TYPE PTA HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 8 1/4 TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, rig upon well plug as ordered
at 260' mix 50 sks 60/40 4% gel with 5 BBL H2O ahead on 5 BBL H2O behind and 2 min of MWD
at 1650' mix 80 sks Displace six BBL H2O
at 825' mix 50 sks Displace 4 BBL H2O
at 280' mix 50 sks Displace 2 BBL H2O
and 60' mix 20 sks and Ret hole mix 30 sks
Wash up pump and liner rig down

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0451	1	PUMP CHARGE	19.00 ⁰⁰	1,900.00
CE 0002	45	MILEAGE	7.15	321.75
CE 0710	12.04	Ton mileage Delivery	1.75	948.15
3190 CE 5829	280 sks	Light weight Blend II (60/40 4%)	16.00	4,480.00
CP 8250	1	8 5/8 wooden plug	165.00	165.00
SCANNED			Subtotal	7814.90
			25% Disc.	1953.73
			Subtotal	5861.17
			SALES TAX	296.12
			ESTIMATED TOTAL	6157.29

AUTHORIZATION [Signature] TITLE [Signature] DATE 5-18-19

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.