



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1220882  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1220882

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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HEADER

WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: #1 J. BIERMANN
Location: sec 29 - twp 17S - rge 35W WICHITA COUNTY
Licenses: AL 2012026, KS 13 MAY 2014
Spud Date: 13 MAY 2014
Drilling Completed: 23 MAY 2014
Region: KANSAS
Surface Coordinates: 94° 0' FSL & 1,790' FWL
50° S & 141° W of NW - SE - SW
DEVIATION SURVEYS: 1 degree @ 262'
Bottom Hole Coordinates: 3,214 N, 1.25 degrees @ 4,965 K.B. Elevation (ft): 3,219
Ground Elevation (ft): 3,214 K.B. Elevation (ft): 3,219
Logged Interval (ft): 3,107 To: 4,965 Total Depth (ft): 4,965
Formation: WABAINSEE TO MISSISSIPPIAN
Type of Drilling Fluid: CHEMICAL: displace @ 3,400
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Ritchie Exploration, Inc. license # 4767
Address: P.O. Box 783188
Wichita, Kansas 67278-3188

GEOLOGIST

Name: Ted Jochems, Jr.
Company: Consulting Geologist
Address: 212 North Market ste 517
Wichita, Kansas 67202

COMMENTS

CONTRACTOR: WW Drilling, rig #2 (toolpusher Lonnie Lang)
MUD: Mud-Co (Terry Ison, Tony Maestas)
DRILL STEM TESTS: Tribolite Testing (Shane McBride)
ELECTRIC LOGS: Nabors Services (Jason Cappellucci) (CDL/CNL, DIL)
Due to the overpressured zone City groups as they were drilled best response on the electric logs. Due to negative results on that test, Ritchie elected not to risk further tests. The hole was plugged and abandoned on 23 MAY 2014.

DRILL STEM TEST #1

4,231 - 4,263 30 - 45 - 45 - 60 LKC H zone
COMMENT: straddle test at TD: 32' anchor, 702' tail.
ISP: no return
FFP: BOB @ 19 min
FSIP: no return
REC: 1' FO (100% O)
6' SOCM (3% O, trace SW, 97% DM)
120' MCW w/ oil spots
420' CW (100% W)
610' Total fluids
Rw: 0.278 csm @ 65 degrees F
Chlorides: 27,000 ppm recovery (5,000 ppm system)
FP: 30 - 145 - 1,130#
SIP: 1,144 - 1,130#
HP: 2,354 - 2,231#
BHT: 112 degrees F
COMMENT: shut-in curves suggest very good permeability.

DAILY PENETRATION

Table with columns: DATE, DEPTH, SPUD, TD-TOT for log. Rows show data from 13 MAY 2014 to 23 MAY 2014.

MUD RECORD

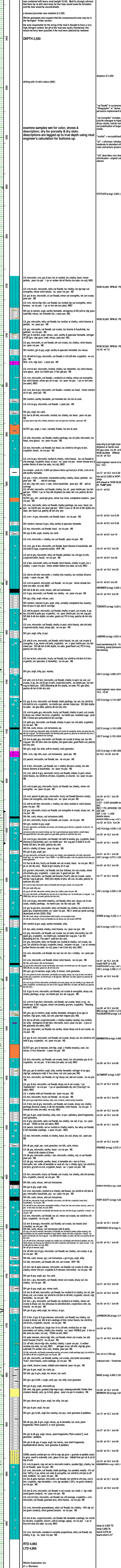
Table with columns: RPT, DEPTH, WT, VIS, FL, pH, PV, PE, GELS, CHLOR, SOLIDS, BTMS UP (min). Rows show mud properties from 2,727 to 4,965 depth.

ROCK TYPES

Legend for rock types including Anhy, Bent, Brecc, Cht, Cyst, Coal, Congl, Dol, Gyp, Lmst, Meta, Mrlst, Salt, Shale, Schol, Shst, Silt, Sil, Tll.

OTHER SYMBOLS

Legend for symbols including OIL LKC, Even, Spotted, Ques, Dead Gas, INTERVAL, Core, Dst, EVENT, Conn, Rft, Sidewall.



RTD 4,965 LTD 4,965

Ritchie Exploration, Inc.
#1 J. Biemann
94° FSL & 1,790' FWL
sec 29 - twp 17S - rge 35W
Wichita County, Kansas





**#1 J. Biermann**

940' FSL & 1790' FWL

50'S & 140'W of NW SE SW Section 29-17S-35W

Wichita County, Kansas

API# 15-203-20264-0000

Elevation: 3214' GL, 3219' KB

Sample Tops			Ref. Well
Anhydrite	2460'	+759	-8
B/Anhydrite	2477'	+742	-6
Stotler	3612'	-393	+6
Heebner	4006'	-787	+13
Toronto	4025'	-806	+12
Lansing	4056'	-837	+9
Muncie Shale	4237'	-1018	+12
Stark Shale	4336'	-1117	+12
Hush	4385'	-1166	+15
BKC	4431'	-1212	+13
Pleasanton	4438'	-1219	+9
Marmaton	4465'	-1246	+10
Altamont	4498'	-1279	+11
Pawnee	4570'	-1351	+19
Myrick	4612'	-1393	+17
Fort Scott	4624'	-1405	+17
Cherokee Shale	4652'	-1433	+14
Johnson	4738'	-1519	+13
B/Penn Lime	4792'	-1573	+14
Mississippian	4890'	-1671	+19
RTD	4965'	-1746	



**CONSOLIDATED**  
Oil Well Services, LLC

268435

TICKET NUMBER 46957  
LOCATION Oakley Co.  
FOREMAN Danew

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

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/24/14	7173	J Bier <del>main</del> #1	29	17	35	Wichita

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Ritchie	399	Michael		
	529	Steven		

CITY	STATE	ZIP CODE

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4965 CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE 4 1/2 2490 TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13 To 13.8 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT In CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_  
 REMARKS: Safety meeting Rig up on WW-2 Plug as ordered

- 1<sup>st</sup> 2490' - 50 SKs
- 2<sup>nd</sup> 1500' - 80 SKs
- 3<sup>rd</sup> 750' - 50 SKs
- 4<sup>th</sup> 290' - 50 SKs      300 SKs 60/40 Poz mix 4% Gel 1/4 Floseal
- 5<sup>th</sup> 60' - 20 SKs
- Plug Mousehole - 20 SKs
- Plug Rathole - 30 SKs

*Thanks Danew Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	\$ 1395.00	\$ 1395.00 ✓
5406	50	MILEAGE	\$ 5.25	\$ 262.50 ✓
5407A	12.9	Ton Mileage Delivery	\$ 1.75	\$ 1129.00 ✓
1131	300 SKs	60/40 Poz mix	\$ 15.86	\$ 4758.00 ✓
1118B	1032 #	Bentonite	\$ .22	\$ 227.04 ✓
1107	75 #	Floseal	\$ 2.92	\$ 222.75 ✓
			SubTotal	\$ 8045.09 ✓
			Less 10%	\$ 804.51 ✓
			SubTotal	\$ 7240.58 ✓
			SALES TAX	385.78 ✓
			ESTIMATED TOTAL	7627.08 ✓

completed

Revin 3737

AUTHORIZATION [Signature] TITLE [Signature] 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.

# ALLIED OIL & GAS SERVICES, LLC 063412

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

J BIERMANN

SERVICE POINT:  
DeWitt, TX

DATE <u>5/13/14</u>	SEC. <u>29</u>	TWP. <u>17</u>	RANGE <u>35</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00</u>	JOB FINISH <u>6:30</u>
LEASE <u>Biermann</u>		WELL# <u>1</u>	LOCATION <u>Morionthol 4<sup>th</sup> Rd L Eu</u>		COUNTY <u>Wichita</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			<u>Ninto</u>				

CONTRACTOR <u>AW 2</u>
TYPE OF JOB <u>Surface</u>
HOLE SIZE <u>12 1/4</u> T.D.
CASING SIZE <u>8 1/2</u> DEPTH <u>262'</u>
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>
PERFS.
DISPLACEMENT <u>15.73</u>

OWNER <u>Sand</u>
CEMENT AMOUNT ORDERED <u>180 Com 790 cc</u>
<u>270 gal</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER <u>Alan Ryan</u>
# <u>423-287</u> HELPER <u>Kevin Ryan</u>
BULK TRUCK
# <u>891</u> DRIVER <u>Greg (Truss)</u>
BULK TRUCK
# DRIVER

COMMON <u>180</u> @ <u>17.00</u> <u>3222.00</u>
POZMIX @
GEL <u>3</u> @ <u>23.40</u> <u>70.20</u>
CHLORIDE <u>6</u> @ <u>64.00</u> <u>384.00</u>
ASC @
Material Total @ <u>3666.00</u>
(135.24 / 20%) @
Service @
HANDLING <u>194.65 CF</u> @ <u>2.40</u> <u>482.22</u>
MILEAGE <u>200</u> @ <u>8.83</u> <u>1616.21</u>
TOTAL

**REMARKS:**

Alan Greg Circulate Mat Cement Displace  
Annat. Shut in.

Cement Del Circulate

Thank You  
Alan, Kevin, Greg

CHARGE TO Ritchie Exploration (946.73 / 20%)

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB <u>262'</u>
PUMP TRUCK CHARGE <u>1512.25</u>
EXTRA FOOTAGE @
MILEAGE <u>20</u> @ <u>7.70</u> <u>539.00</u>
MANIFOLD @ <u>225.00</u>
<u>1.16 Mileage 20</u> @ <u>4.40</u> <u>308.00</u>
TOTAL <u>4733.69</u>

**PLUG & FLOAT EQUIPMENT**

@	
@	
@	
@	
@	
<u>0.00</u>	TOTAL

To: Allied Oil & Gas 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 Walter Biermann

SIGNATURE \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 8,409.89

DISCOUNT 1,681.97 (20%) IF PAID IN 30 DAYS

6,727.91 Net

Q