



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1106643  
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: \_\_\_\_\_



1106643

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  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				

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Max R. Lowery

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: Ritchie Exploration, Inc.

LEASE: Grail #1

FIELD: Bin South

LOCATION: N2NE SW

SEC: 32 TWP: 11 RGE: 22W

COUNTY: Trego STATE: KS

CONTRACTOR: WW Rig 12

SPUD: 9-11-2012 COMP: 9-19-2012

RTD: 4/139 LTD: 4/135

MUD UP: 2932 TYPE MUD: Chem

FORMATION TOPS AND STRUCTURAL POSITION

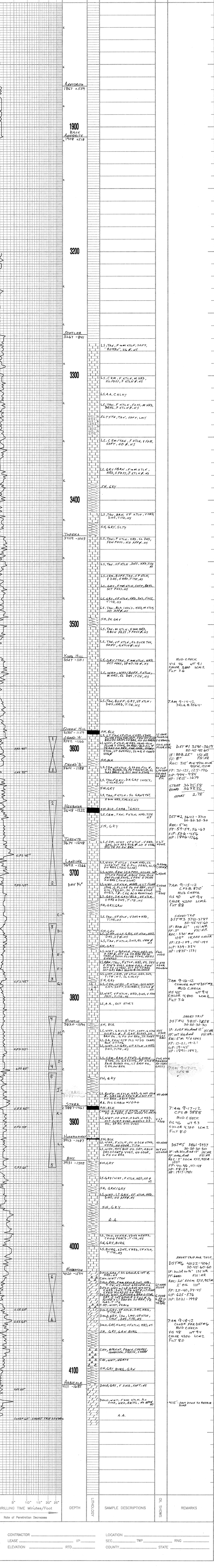
FORMATION	DEPTH	ELV. TOP	ELV. C	ELV. B	ELV. A	ELV. D	ELV. E
Andhrilite	1867	1867	588	588	588	588	588
Base Andhrilite	1908	1908	515	521	521	517	517
Topher	3249	3249	342	342	342	342	342
Tombe	3874	3874	384	384	384	384	384
Tombe	3882	3882	382	382	382	382	382
Muncie	3887	3887	380	380	380	380	380
Stark	3913	3913	380	380	380	380	380
Hushpuckney	3913	3913	380	380	380	380	380
BKC	3931	3931	380	380	380	380	380
Marmaton	4020	4020	407	407	407	407	407
Arbuckle	4111	4111	187	187	187	187	187

REFERENCES: 1. Ritchie #1 Spore Dr. Sp. SE. NW. 21-22W. 2. Ritchie #2 Spore Dr. Sp. SE. NW. 21-22W. 3. Ritchie #3 Spore Dr. Sp. SE. NW. 21-22W.

REMARKS

### LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool. Lims	Chert	Dolomite



CONTRACTOR \_\_\_\_\_ LOCATION \_\_\_\_\_

LEASE \_\_\_\_\_ IP \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_

ELEVATION \_\_\_\_\_ RTD \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_



**#1 Graul**

2301' FSL & 1860' FWL

9' S & 120' W of N/2 NE SW Section 32-11S-22W

Trego County, Kansas

API# 15-195-22812-0000

Elevation: 2418' GL: 2426' KB

Sample Tops			Ref. Well
Anhydrite	1866'	+560	-8
B/Anhydrite	1908'	+518	-3
Topeka	3429'	-1003	-13
Oread A	3592'	-1166	-15
Heebner	3648'	-1222	-16
Toronto	3674'	-1248	-20
Lansing	3692'	-1266	-22
Muncie Shale	3820'	-1394	-19
Stark Shale	3887'	-1461	-20
BKC	3931'	-1505	-18
Marmaton	4020'	-1594	-24
Arbuckle	4111'	-1685	-24
RTD	4139'	-1713	

# ALLIED OIL & GAS SERVICES, LLC 056522

Federal Tax I.D.# 20-5975804

REMIT TO R.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

*Russell KS*

DATE <i>9-11-12</i>	SEC. <i>32</i>	TWP. <i>11</i>	RANGE <i>22</i>	CALLED OUT	ON LOCATION	JOB START COUNTY <i>Wagoner</i>	JOB FINISH STATE <i>KS</i>
LEASE <i>Gravel</i>	WELL # <i>1</i>	LOCATION <i>Waterbury ca. 12 mi. N. edge of town</i>			<i>1.01</i>	<i>1.01</i>	
OLD OR (New/Change one)		<i>4E 174N E20a</i>					

CONTRACTOR *WN 12*

TYPE OF JOB *surface*

HOLE SIZE *12 1/4* T.D. *230*

CASING SIZE *8 7/8* 24" DEPTH *230*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *15'*

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED *170 com 3% cc 2% ga*

COMMON	<i>170</i>	@ <i>17.90</i>	<i>3043.00</i>
POZMIX		@	
GEL	<i>3</i>	@ <i>23.45</i>	<i>70.35</i>
CHLORIDE	<i>6</i>	@ <i>64.00</i>	<i>384.00</i>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER *Robert V BabSi*

# *417* HELPER *Woody O*

BULK TRUCK

# *423* DRIVER *Walter K*

BULK TRUCK

# DRIVER

HANDLING	<i>183.51</i>	@ <i>2.48</i>	<i>455.11</i>
MILEAGE	<i>310.06</i>	<i>1/m</i>	<i>2.60</i>
			<b>TOTAL <i>4758.61</i></b>

REMARKS:

*ran 5jt. of new 8 7/8 24" casing circulation mixed 170 com 3% cc 2% gel displaced 13 1/2 bbl of water shut in washed up*

*Cement did circulate to surface*

SERVICE

DEPTH OF JOB	<i>230</i>	
PUMP TRUCK CHARGE	<i>1512.25</i>	
EXTRA FOOTAGE	@	
MILEAGE <i>37 HVI</i>	@ <i>7.70</i>	<i>284.90</i>
MANIFOLD	@	
<i>371 HVI</i>	@ <i>4.40</i>	<i>162.80</i>

TOTAL *1959.95*

CHARGE TO: *Ritchie Exploration*

STREET \_\_\_\_\_

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

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

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.

SALES TAX (If Any) *237.81*

TOTAL CHARGES *6718.5657*

DISCOUNT *1827.45* IF PAID IN 30 DAYS

*Net 4891.11* BS 9-13  
*before tax*

PRINTED NAME *Calvin P. [Signature]*

SIGNATURE *[Signature]*

# ALLIED OIL & GAS SERVICES, LLC 056533

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell KS

DATE <u>9-19-12</u>	SEC. <u>32</u>	TWP. <u>11</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30 pm</u>	JOB FINISH <u>4:00 pm</u>
LEASE <u>Grant</u>	WELL # <u>1</u>	LOCATION <u>Wakeeney 4E 1/4 N E into</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR WV 12

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4139

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 4075

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT

AMOUNT ORDERED 230 60/40 42agcl 1/4 4Flt

COMMON	<u>140</u>	@ <u>17.90</u>	<u>2506.00</u>
POZMIX	<u>90</u>	@ <u>9.35</u>	<u>841.50</u>
GEL	<u>8</u>	@ <u>23.40</u>	<u>187.20</u>
CHLORIDE		@	
ASC		@	
Flt-seal	<u>2 50#</u>	@ <u>2.97</u>	<u>148.50</u>
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>246.66 ft<sup>3</sup></u>	@ <u>2.48</u>	<u>611.72</u>
MILBAGE	<u>382.395 t/m</u>	<u>2.60</u>	<u>994.23</u>
			TOTAL <u>5289.15</u>

EQUIPMENT

PUMP TRUCK CEMENTER Robert Bob S

# 417 HELPER Woody O

BULK TRUCK

# 473 DRIVER Walter K

BULK TRUCK

# DRIVER

REMARKS:

p1 25 @ 4075'

p2 25 @ 1887'

p3 100 @ 1047'

p4 40 @ 270'

p5 10 @ 40'

30 @ Rathole

CHARGE TO: Ritchie Exploration

STREET \_\_\_\_\_

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

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cement 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 Calvin Pham

SIGNATURE Calvin Pham

SERVICE

DEPTH OF JOB	<u>4075</u>	
PUMP TRUCK CHARGE	<u>1250.00</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>37 HVMI</u>	@ <u>7.70</u>	<u>284.90</u>
MANIFOLD	@	
<u>37 LVMI</u>	@ <u>4.40</u>	<u>162.80</u>
	@	
TOTAL <u>1697.70</u>		

PLUG & FLOAT EQUIPMENT

Wooden <u>8 3/4</u> plug	@ <u>107.64</u>	<u>107.64</u>
	@	
	@	
	@	
	@	
TOTAL <u>107.64</u>		

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

TOTAL CHARGES 7094.49

DISCOUNT 1645.92 IF PAID IN 30 DAYS

BS 9-20

AR

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 03, 2013

John Niernberger  
Ritchie Exploration, Inc.  
8100 E 22ND ST N # 700  
BOX 783188  
WICHITA, KS 67278-3188

Re: ACO1  
API 15-195-22812-00-00  
Graul 1  
SW/4 Sec.32-11S-22W  
Trego County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
John Niernberger