

2/13/10

Form ACO-1
September 1999
Form Must Be Typed

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

CONFIDENTIAL

ORIGINAL

Operator: License # 4767
Name: Ritchie Exploration, Inc.
Address: P. O. Box 783188
City/State/Zip: Wichita, KS 67278-3188
Purchaser: NCRA
Operator Contact Person: John Niernberger
Phone: (316) 691-9500
Contractor: Name: _____
License: _____
Wellsite Geologist: _____

CONFIDENTIAL
FEB 13 2008
KCC
RECEIVED
KANSAS CORPORATION COMMISSION
FEB 14 2008
CONSERVATION DIVISION
WICHITA, KS

API No. 15 - 063-20811 -00-01
County: Gove
SE SE SE Sec. 17 Twp. 11 S. R. 31 East West
330 feet from (S) / N (circle one) Line of Section
330 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: Engel Well #: 2

Field Name: Penny East
Producing Formation: Toronto & LKC-A
Elevation: Ground: 2982' Kelly Bushing: 2987'
Total Depth: 4665' Plug Back Total Depth: 4070
Amount of Surface Pipe Set and Cemented at 290 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2498 Feet
If Alternate II completion, cement circulated from 290
feet depth to surface w/ 200 sx cmt.

Drilling Fluid Management Plan WD NJ 5/14/09
(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 No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____

Well Name: _____
Original Comp. Date: 11/13/84 Original Total Depth: 4666
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

12/12/2007 12/12/2007 12/19/2007
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: _____
Title: Production Manager Date: 02/13/2008
Subscribed and sworn to before me this 13th day of February,
2008.
Notary Public: Debra K Phillips
Date Commission Expires: 5-4-11

DEBRA K. PHILLIPS
Notary Public - State of Kansas
My Appt. Expires 5-4-11

KCC Office Use ONLY
 Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: Ritchie Exploration, Inc. Lease Name: Engel Well #: 2
 Sec. 17 Twp. 11 S. R. 31 East West County: Gove

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(See Attached Document) RECEIVED KANSAS CORPORATION COMMISSION FEB 14 2008 CONSERVATION DIVISION WICHITA, KS	
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:	CONFIDENTIAL FEB 13 2008 KCC		
R A Guard Log			

CASING RECORD <input checked="" 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
Surface		8.625"		290		200	
Production		4.50"	10.5#	4658		230	10 sx salt flush

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	4215'-4218' (LKC) 4556'-4559.5' (Johnson) (10/84)	1500 gals, 15% HCL (10/84); 1500 AOG-200 (LKC) (10/84)	
4	4215'-4219' (LKC) (11/84)	750 gals, 15% HCL (11/84)	
2	4326'-4331' (Marmaton) (09/85) 4458'-4460' (Myrick Station) (11/85)	500 gals, 15% MCA (11/85)	
4	4550'-4551.5' (Johnson) 4478'-4482' (Ft Scott) (12/07)	1600 gals, 15% NE +22 perf balls (12/07)	
4	4049'-52', 4014'-16' (LKC) 3995.5'-4001' (Toronto, CIBP @ 4070') (12/07)	1300 gals, 15% NE +36 perf balls (12/07)	

TUBING RECORD	Size <u>2 3/8</u>	Set At <u>4027'</u>	Packer At <u>4030'</u>	Liner Run <u>BV11- plug below Toronto ABOVE</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.	Producing Method		<u>(PRODUCING TORONTO & LKC-A ZONES)</u>		
<u>12/19/2007</u>	<input type="checkbox"/> Flowing	<input checked="" type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls. <u>10.14</u>	Gas Mcf	Water Bbls. <u>91.25</u>	Gas-Oil Ratio	Gravity

Disposition of Gas **METHOD OF COMPLETION** Production Interval

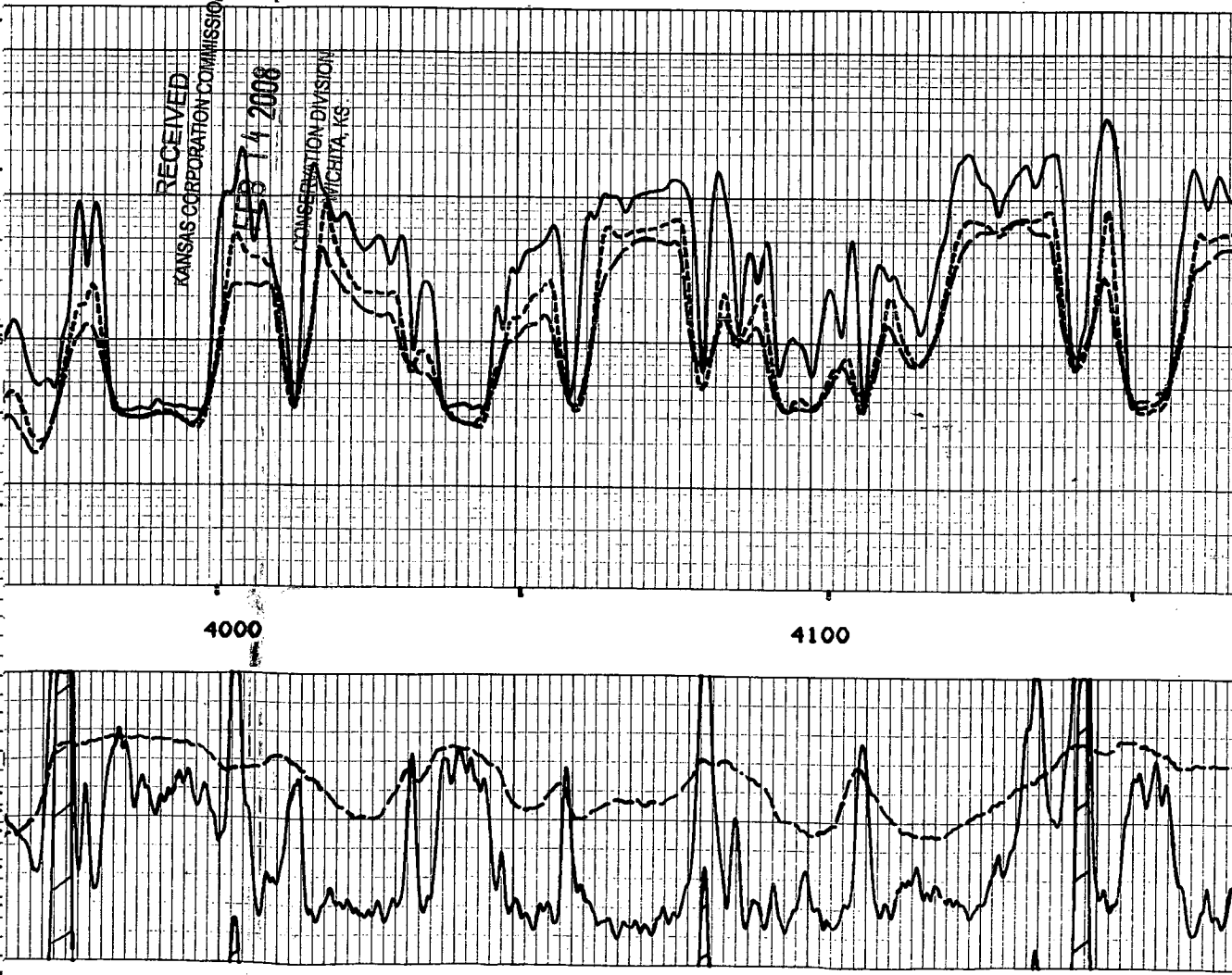
Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, Submit ACO-18.) Other (Specify) _____

CONFIDENTIAL
 FEB 13 2008
 KCC

GREAT GUNS
 Digital Log
 Dual Induction
 Log

FILE NO.	COMPANY	A. SCOTT RITCHIE	
	WELL	ENGEL NO. 2	
	FIELD		
	COUNTY	GOVE	STATE KANSAS
	LOCATION:	SE SE SE	OTHER SERVICES
	SEC	TWP	RGE
	17	11S	31W
Permanent Datum	GROUND LEVEL	Elev.	2982
Log Measured from	KELLY BUSHING	Ft. Above Permanent Datum	KB 2987
Drilling Measured from	KELLY BUSHING		DF ---
			GL 2982

Date	10-1-84		
Run No.	TWO		
Depth-Driller	4665		
Depth-Logger	4666		
Bottom Logged Interval	4664		
Top Logged Interval	3600		
Casing-Driller	8 5/8 @ 295	•	•
Casing-Logger			
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL		
Density and Viscosity	5,000 PPM		
	9.4 47		
pH and Fluid Loss	11.0 9.0 cc	cc	cc
Source of Sample	FLOWLINE		
Rm @ Meas. Temp.	1.25 @78 °F	•	•
Rmf @ Meas. Temp.	1.938 @78 °F	•	•
Rmc @ Meas. Temp.	1.88 @78 °F	•	•
Source of Rmf and Rmc	CHART 1		
Rm @ BHT	.841 @116 °F	•	•
Time Since Circ.	2.5 HOURS		
Max. Rec. Temp. Deg. F	116 °F		
Equip. No. and Location	35 HAYS		
Recorded By	D. LEGLEITER		
Witnessed By	MR. ROBBIA		



Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

NEW

Phone Plainville 913-434-2812
 Phone Kiowa 316-825-4618

ALLIED CEMENTING CO., INC.

N^o 37982

Home Office P. O. Box 31

Russell, Kansas 67665

Date	9-19-84	Sec.	7	Twp.	11	Range	31	Called Out		On Location		Job Start	10:00 PM	Finish	10:15 PM	
Lease	Boone Engle Well No. #2	Location					Campus Exit 1 1/2 S 2 1/2 W		County	Grove	State	Ks.				
Contractor	Abercrombie #9															
Type Job	Surface															
Hole Size	12 1/4"	T.D.	295'													
Csg. Size	8 5/8"	Depth	290'													
Tbg. Size		Depth	RECEIVED KANSAS CORPORATION COMMISSION FEB 14 2008													
Drill Pipe		Depth	CONSERVATION DIVISION WICHITA, KS													
Tool		Depth	FEB 14 2008													
Cement Left in Csg.	15'	Shoe Joint	CONSERVATION DIVISION WICHITA, KS													
Press Max.		Minimum														
Meas Line		Displace	✓													

Owner
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To *A. Scott Ritchie*
 Street *125 N. Market Suite 950*
 City *Wichita* State *Ks. 67202*

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. *X Anthony Mart* **CONFIDENTIAL** FEB 13 2008
CEMENT **KCC**

Perf.

EQUIPMENT

Pumptrk #83	No	Cementer	<i>Brad</i>
		Helper	<i>Darrell</i>
Pumptrk	No	Cementer	
		Helper	
Bulktrk #150		Driver	<i>Chris</i>
Bulktrk		Driver	

Amount Ordered *200 sts comm. Quick-set*

Consisting of

Common	<i>200 sts @ 5.00</i>	<i>1000.00</i>
Poz. Mix		
Gel.		
Chloride		
Quickset	<i>10 units @ 25.00</i>	<i>250.00</i>
Sales Tax		

DEPTH of Job

Reference:	<i>Pumptruck</i>	<i>360.00</i>
	<i>1.00 pr. mi</i>	<i>9.00</i>
	<i>1-8 5/8" Surface plug</i>	<i>40.00</i>
	Sub Total	
	Tax	
	Total	<i>409.00</i>

Handling	<i>90¢ pr. st.</i>	<i>189.00</i>
Mileage	<i>66¢ pr. ton mi.</i>	<i>66.20</i>
	<i>9 miles</i>	
Sub Total		
Total		<i>1505.20</i>

Remarks: *Cement Circulated*

Floating Equipment

[Signature]

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Kiowa 316-825-4618

New

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31 Russell, Kansas 67665

No 39879

Date <i>10-1-84</i>	Sec. <i>17</i>	Twp. <i>11s</i>	Range <i>31w</i>	Called Out	On Location	Job Start	Finish <i>2:00 PM</i>
Lease <i>Engle</i>	Well No. # <i>2</i>	Location <i>Campus 25 24w</i>			County <i>Gove</i>	State <i>KAN</i>	
Contractor <i>Abercrombie</i>				Rig # <i>9</i>	Owner <i>Same</i>		
Type Job <i>Paeda 2-stage</i>				<i>(Top)</i>	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Hole Size <i>7 7/8"</i>	T.D. <i>4665'</i>		Charge To <i>A. Scott Ritchie</i>				
Csg. Size <i>4 1/2"</i>	Depth <i>4658'</i>		Street <i>125 N. Market Suite 900</i>				
Tbg. Size	Depth		City <i>Wichita</i> State <i>KAN 67202</i>				
Drill Pipe	Depth		The above was done to satisfaction and supervision of owner, agent or contractor.				
Tool <i>Baker</i>	Depth <i>2495'</i>		Purchase Order No. <i>CONFIDENTIAL</i>				
Cement Left in Csg. <i>13.70'</i>	Shoe Joint <i>13.70'</i>		X <i>of Tom Post</i> FEB 13 2008				
Press Max. <i>3000 lbs.</i>	Minimum		MISSION <i>KCC</i>				
Meas Line <i>✓</i>	Displace		CEMENT				
Perf. <i>CONSERVATION DIVISION WICHITA, KS</i>	FEB 14 2008		Amount Ordered <i>400 SX 50 per 1070 Gel</i>				

EQUIPMENT		
Pumptrk # <i>177</i>	No	Cementer <i>Fred</i>
		Helper <i>mike</i>
Pumptrk	No	Cementer
		Helper
Bulktrk # <i>95</i>		Driver <i>Tim</i>
Bulktrk # <i>117</i>		Driver <i>John</i>

Consisting of		
Common	<i>200 SX @ 5.00</i>	<i>1000.00</i>
Poz. Mix	<i>200 SX @ 2.10</i>	<i>420.00</i>
Gel.	<i>24 SX @ 7.25</i>	<i>174.00</i>
Chloride		
Quickset		
Sales Tax		
Handling	<i>424 SX @ .90</i>	<i>381.60</i>
Mileage	<i>66 Per Ton mi. (10mi.)</i>	<i>119.50</i>
Sub Total		<i>2095.10</i>
Total		

DEPTH of Job		
Reference: # <i>3</i>	Pump Trk.	<i>600.00</i>
Sub Total		
Tax		
Total		

Remarks: *Tool closed while mixing cement*

Thank you!

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Kiowa 316-825-4618

new

ALLIED CEMENTING CO., INC.

No 39878

Home Office P. O. Box 31

Russell, Kansas 67665

Date	10-1-84	Sec.	17	Twp.	H/S	Range	31w	Called Out		On Location	7:30 p.m.	Job Start	11:45 p.m.	Finish	12:30 AM		
Lease	Engle	Well No.	# 2	Location				Campus 25 2 1/4 W	County	Gove	State	Kan					
Contractor	Abercrombie		Rig # 9			Owner Same											
Type Job	Prod. 2-Stage		(Bottom)			To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	7 7/8"		T.D.	4665'			Charge To									A. Scott Ritchie	
Csg. Size	4 1/2"		Depth	4658'			Street									125 N. Market Suite 950	
Tbg. Size			Depth				City									Wichita	
Drill Pipe			Depth				State									Kan 67202	
Tool	Baker		Depth	2495'			The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.	13.70'		Shoe Joint	13.70'			Purchase Order No.										
Press Max.	1000 lbs.		Minimum				X Tom Post									CONFIDENTIAL FEB 13 2008	
Meas Line	✓		Displace				CEMENT									KCC	

Perf.

EQUIPMENT

No	Cementor	Faed
Pumptrk #177	Helper	mike
No	Cementor	
Pumptrk	Helper	
	Driver	
Bulktrk		
Bulktrk	Driver	

RECEIVED
KANSAS CORPORATION COMMISSION
FEB 14 2008
CONSERVATION DIVISION
WICHITA KS

Amount Ordered	230 SX 140 PERZ 1070 SALT	
Consisting of	10 SX SALT Flush	
Common	140 SX @ 5.00	700.00
Poz. Mix	90 SX @ 2.10	189.00
Gel.		
Chloride		
Quickset		
SALT	33 SX @ 4.75	156.75
Handling	263 SX @ .90	236.70
Mileage	.68 Per Tex Mi. (12 mi.)	78.90
Sub Total		1361.35
Total		

DEPTH of Job

Reference:	# 1 Pump Trk.	838.00
	# 14 Pump Trk. 100 Per mi.	10.00
	Sub Total	848.00
	Tax	
	Total	

OCT 8 REC'D

Remarks: Flat Held

Thank You!

Floating Equipment 4 1/2"

1-Guide shoe @	83.00
1-AFU Insert @	140.00
1-Basket @	110.00
8-Cent. @ 41.00	328.00
1-Stage Collar @	227.00
	<u>2928.00</u>