

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACG-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 063-21,453 **CONFIDENTIAL**

County Gove

NE NE NW Sec. 15 Twp. 11 Rgs. 31W

330 Feet from S/N (circle one) Line of Section

2970 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name B. Ward Well # 1

Field Name _____

Producing Formation L/KC

Elevation: Ground 2999 KB 3004

Total Depth 4660' PBDT 4612

Amount of Surface Pipe Set and Cemented at 209 Feet

Multiple Stage Cementing Collar Used? X Yes _____ No

If yes, show depth set 2530' Feet

If Alternate II completion, cement circulated from 2530'

feet depth to 250 w/ 650 sx cmt.

Drilling Fluid Management Plan as per Don Butcher
(Data must be collected from the Reserve Pit) 3-4-94

Chloride content 2,000 ppm Fluid volume 700 bbls

Disseminating method used evaporation

Location of fluid disposal if hauled off site: _____

Operator Name _____

Lease No. _____

Quarter _____ S. Ang. _____ E/W

County _____ Docket No. _____

Operator: License # 4767

Name: Ritchie Exploration, Inc.

Address 125 N. Market, Suite 1000

City/State/Zip Wichita, KS 67202

Purchaser: NCRA

Operator Contact Person: Lisa Thimmesch

Phone (316) 267-4375

Contractor: Name: White & Ellis

License: 5420 **KCC**

Wellsite Geologist: K. Noah

Designate Type of Completion X New Well _____ Re-Entry _____

X Oil _____ SWD _____ SID _____ Temp. Abd.

_____ Gas _____ ENHR _____ SIGW _____

_____ Dry _____ Other (Core, USW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

RELEASED

Well Name: _____

MAR 14 1996

Comp. Date _____ Old Total Depth _____

FROM CONFIDENTIAL Re-perf. _____ Conv. to Inj/SWD _____

_____ Plug Back _____ PBDT _____

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

10-9-93 10-20-93 11-19-93

Spud Date Date Reached TD Completion Date

RECEIVED
STATE CORPORATION COMMISSION

JAN 11 1994 1-11-94

CONSERVATION DIVISION
Wichita, Kansas

KEEP THIS ON
KEEP THIS ON
CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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 [Signature]

Title President Date 1/5/94

Subscribed and sworn to before me this 5th day of JANUARY 19 94.

Notary Public [Signature]

Date Commission Expires _____

LISA THIMMESCH
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 8-20-95

<input checked="" type="checkbox"/>	K.C.C. OFFICE USE ONLY		
<input checked="" type="checkbox"/>	F	Letter of Confidentiality Attached	
<input checked="" type="checkbox"/>	C	Wireline Log Received	
<input checked="" type="checkbox"/>	C	Geologist Report Received	
<input checked="" type="checkbox"/>	Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep	<input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other (Specify)

Operator Name Ritchie Exploration, Inc.

Lease Name B. Ward

Well # 1

Sec. 15 Twp. 11 Rge. 31W

East
 West

County Cove

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

Log Formation (Top), Depth and Datum Sample
Name Top Datum

SEE ATTACHED SHEET

List All E.Logs Run:

Radiation Guard Log
Correlation Sonic Cement Bond Log

DOX

8 1 1991

CASING RECORD

New 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	12 1/4"	8 5/8"	24#	209	60/40 poz	140	2% gel 3% CC
production	7 7/8"	4 1/2"	10.5#	4687'	60/40 poz	200	10% salt 3% gilsonite

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	#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		

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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
4	4628'-4632' Congl. Sd/CIBP at		4612'
3	4260'-4264' L/KC "J" zone	750 gal. 15% MCA	same
3	4206'-4209.3' L/KC "H" zone	500 gal. 15% MCA	same
3	4131'-4134.3' L/KC "E" zone	600 gal. 15% MCA	same

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	4586'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
11-19-93	<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	24 BO	-0-	62 BW		

Disposition of Gas:

Vented Sold Used on Lease
(If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled
 Other (Specify)

Production Interval

RITCHIE EXPLORATION, INC.

125 N. Market - Suite 1000

Wichita, Kansas 67202-1775

316-267-4375 FAX 316-267-3026

CONFIDENTIAL

#1 B. Ward

NE NE NW

Section 15-11S-31W

Gove County, Kansas

API# 15-063-21,453

Elevation: 2999' G.L., 3004' K.B.

ORIGINAL

ELECTRIC LOG TOPS

Anhydrite	2529' (+ 475)
B/Anhydrite	2556' (+ 448)
Heebner	4014' (-1010)
Lansing	4057' (-1053)
Muncie Crk	4188' (-1184)
Stark	4275' (-1271)
B/KC	4337' (-1333)
Marmaton	4366' (-1362)
Pawnee	4467' (-1463)
Myrick Sta.	4505' (-1501)
Fort Scott	4532' (-1528)
Cherokee	4558' (-1554)
Johnson zn	4604' (-1600)
Cgl sd	4628' (-1624)
Mississippi	4643' (-1639)
Miss Dol	4660' (-1656)
LTD	4690' (-1686)

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KCC

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DST #1 from 4120' to 4136' (L/KC "E" zone). Recovered 50' mud cut oil (80% oil and 20% mud), and 60' mud cut oil (55% oil and 45% mud). 110' total fluid (66% oil and 34% mud).

IFP:39-48#/30"; ISIP:1200#/30";
FFP:58-68#/30"; FSIP:1122#/30".

DST #2 from 4183' to 4276' (L/KC "G" - "J" zone). Recovered 540' gas in pipe, 420' gassy mud cut oil (30% gas, 35% oil, 35% mud), 427' gassy mud cut watery oil (5% gas, 70% oil, 10% mud, 15% water), 610' mud cut watery oil (80% oil, 10% mud, 10% water), 120' mud cut water. 1584' total fluid (10% gas, 59% oil, 16% mud, 15% water).

IFP:176-488#/30"; ISIP:984#/30";
FFP:527-653#/30"; FSIP:964#/30".

DST #3 from 4274' to 4338' (L/KC "K" and "L" zones). Recovered 50' mud.

IFP:48-48#/30"; ISIP:1112#/30";
FFP:48-48#/30"; FSIP:994#/30".

DST #4 from 4333' to 4520' (Marmaton - Myrick Station). Rec. 60' mud.

IFP:58-58#/30"; ISIP:809#/30";
FFP:58-58#/30"; FSIP:731#/30".

DST #5 from 4520' to 4620' (Fort Scott - Johnson zone). Rec. 10' mud.

IFP:29-29#/30"; ISIP:58#/30";
FFP:29-29#/30"; FSIP:58#/30".

DST #6 from 4616' to 4634' (Conglomerate sand). Recovered 120' gas in pipe, and 75' oil cut mud (40% oil and 60% mud).

IFP:39-39#/30"; ISIP:1102#/30";
FFP:39-48#/60"; FSIP:1102#/45".

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Wichita, Kansas

JAN 11 1994

ORIGINAL

ALTERNATE I & II

District #4

KCC-KDHE

(Oil, Gas, Water)

Work Sheet

Called In:

Time 7:11 AM Month Oct Day 28th Year 1993

API# 15-062-21-453

Mr. John Murnberger

Spud Date: 10-8-93

Expiration Date: 2-8-93

Operator: Pete Epe

KCC # 4767

Address: 125 N. Market, #1000, Wichita, KS Phone # (620) 1453

Lease Name: B. Ward Well # 1

Location: NE-NE-NW County: Scott

Sec: 15 Twp: 11 Rge: 21

10 1/2" 8 3/4" 209 S.P. CWC w/ 140 sx. cmt.

4 1/2" - 5 1/2" - 6" csg. set @ 4687 w/ 200 sx. cmt.

T.D. 4690 Elev. 2999 Anhy. 2529 Dakota Base: 1399 to 1699

D.V. Tool @ Port Collar @ 2530 Perf. @ other

Total Amount of Cmt./Blend: 650st 50^{lb} 7oz - 6% 6d and 2% gypsum

(good circulation No. cnt. cir)

Did Cmt circ? Date: 10-27-93 Cement Company: allied Ticket #

Alternate II Completion: Rotary Rig Pulling Unit backside

Remarks:

10-28-93 - @ 2530 allied pumped in 650st cnt. Circulation good until the end - no cement circulated - mfg. mud witness

10-29-93 - Temp Survey allied cnt @ 325 & 350th approx approved by Don Butcher 10-29-93

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KCC

MAR 14 1996

JAN 10

CONFIDENTIAL

FROM CONFIDENTIAL

[Signature]
Witness (sign)

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

ORIGINAL CONFIDENTIAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. 5203
 Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	10-9-93	Sec.	15	Fwp.	115	Range	31W	Called Out	8:30 AM	On Location	10:30 AM	Job Start	11:30 AM	Finish	12: PM
Lease	Ward B	Well No.		Location	Campus 1/2 S - 1/2 W - S in			County	Gove	State	KS				
Contractor	White + Ellis Drly Rig #9							Owner	Ritchie Exploration						
Type Job	Surface							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	12 1/4		T.D.	210											
Csg.	8 5/8		Depth	209											
Tbg. Size			Depth	KCC											
Drill Pipe			Depth	JAN 10											
Tool			Depth	CONFIDENTIAL											
Cement Left in Csg.	15 Ft		Shoe Joint												
Press Max.			Minimum												
Meas Line			Displace	12 1/4 bbls.											
Perf.															

EQUIPMENT

No.	Cementer	Ken
Pumptrk 300	Helper	Fitz
No.	Cementer	
Pumptrk	Helper	
	Driver	
Bulktrk 315		Ken
Bulktrk	Driver	

DEPTH of Job	210
Reference:	Pump Trk 430 ⁰⁰
1	8 5/8 Surface Plug 42 ⁰⁰
	225 per mile 18 ⁰⁰
	Sub Total
	Tax
	Total 490 ⁰⁰

Remarks: Mix Cement - Displace plug to within 15ft from bottom
 Cement did Circulate

Thanks
 Ken Fitz

CEMENT

Amount Ordered	140 SK. 60/40 Pkg 370 cc + 210 gal		
Consisting of			
Common	84 sk	2	6 ⁵⁵ 575 ⁴⁰
Poz. Mix	56 sk	2	3 ⁰⁰ 168 ⁰⁰
Gel.	2 sk	2	7 ⁰⁰ 14 ⁰⁰
Chloride	5 sk	2	25 ⁰⁰ 125 ⁰⁰
Quickset			

Handling	100 per sk	140 ⁰⁰
Mileage	4¢ per sk 1 mile	45 ⁰⁰
	8 mile copy TFR T.	
	10-19-93	
	Sub Total	4053 ⁴⁰

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 CONSERVATION DIVISION
 Wichita, Kansas
 MAR 14 1996

FROM CONFIDENTIAL

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

ORIGINAL CONFIDENTIAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

5206

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	10-20-93	Sec.	15	Twp.	11 S	Range	31 W	Called Out	6:00 AM	On Location	7:45 AM	Job Start	10:30 AM	Finish	11:30 AM
Lease	Ward "B"	Well No.	1	Location	Campus 15-1/2 W-S. into			County	Gove	State	KS				
Contractor	White & Ellis Drilling # 9											Owner	Ritchie Exploration		
Type Job	Long string											To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.			
Hole Size	7 7/8	T.D.	4690												
Csg.	4 1/2 10.5"	Depth	4680												
Tbg. Size		Depth	JAN 10												
Drill Pipe		Depth	CONFIDENTIAL												
Foot	Port Collar	Depth	2838												
Cement Left in Csg.		Shoe Joint													
Press Max.		Minimum													
Meas Line	yes	Displace	75 bbls												
Perf.			MAR 14 1996												

EQUIPMENT FROM CONFIDENTIAL

Key	No.	Cementer	Ken
Pumptrk	300	Helper	Thery
Pumptrk	No.	Cementer	
Pumptrk		Helper	
Bulktrk	315	Driver	Fitz
Bulktrk		Driver	

Charge To	Ritchie Exploration		
Street	125 N Market # 1000		
City	Wichita	State	Kan 67202
The above was done to satisfaction and supervision of owner agent or contractor.			
Purchase Order No.	[Signature]		
Amount Ordered	500 gal mud CEMENT 215 sk. 60/40 Pa. 10% salt + 3% Gil.		
Consisting of			
Common	129	SKS @	6.55
Poz. Mix	86	SKS @	3.00
Gilscrite	552	# @	3.94
Gilscrite salt	19	SKS	5.25
Quickset	500 gal UFR-2 @ 1.00		
Sales Tax	5.00.00		

DEPTH of Job	4687	
Reference:	Pumptruck	980.00
	4 1/2 Buller Plug	33.00
	2.25 per mile	18.00
	Sub Total	
	Tax	
	Total	1,031.00

Handling	1.00 per sk	215.00
Mileage	4¢ per 1/4 mile	68.80
	8 mile	
Sub Total		2240.48
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COPY TH.T. 11-2-93 JAN 11 1994		

Remarks:
 Pump mud flush. mix 15 sk. Cement
 in Rat Hole. mix 200 sk. Down csg.
 Displace with 75 bbls water
 Plug landing pressure 1200 psf.
 Plug Held. Thank you,
 Ken & crew

Floating Equipment	4 1/2 csg (Bg Ref)	
	1 - Guide shoe	- 109.00
	1 - Insert	- 169.00
	6 - Centralizers	- 318.00
	2 - Cement Baskets	- 226.00
	1 - Port Collar	- 1,680.00
	Total	= 2,502.00

Phone 913-48-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL CONFIDENTIAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

5210

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	10-28-93	Sec.	15	Twp.	11S	Range	31W	Called Out	8:00 AM	On Location	10:30	Job Start	11:45 AM	Finish	1:30 PM	
Lease	Ward "8"	Well No.	1	Location				Campus 15-1/2W-S. Into	County	Gove	State	Ks.				

Contractor		Owner	
Type Job	Port collar	Ritchie Exploration	
Hole Size		T.D.	
Csg.	4 1/2 10.5 th	Depth	KCC
Tbg. Size	2 3/8	Depth	JAN 10
Drill Pipe		Depth	CONFIDENTIAL
Tool	Port collar	Depth	
Cement Left in Csg.		Shoe Joint	
Press Max.	RELEASED	Minimum	
Meas Line		Displace	9.8 bbls
Perf.	MAR 14 1996		

FROM CONFIDENTIAL EQUIPMENT

Okley No.	Cementer	Ken
Pumptrk 300	Helper	Terry
No.	Cementer	
Pumptrk	Helper	
	Driver	
Bulktrk 305	Driver	FITZ
Bulktrk 212	Driver	FITZ

DEPTH of Job		
Reference:	Pumptruck	525 ⁰⁰
	225 per mile	18 ⁰⁰
	Sub Total	
	Tax	
	Total	543 ⁰⁰

Remarks:
 Test port collar @ 1300 PSI, mix 650 SK of cement. we lost circulation with 300 SK mixed. ~~500 SK~~ Displace 8 3/4. Run Port Collar + TEST @ 1500 PSI. Wash out.

Charge To Ritchie Exploration
 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.

Street 125 N. Market, #1000
 City Wichita State Kan 67202
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. 10
 X FORN
 1 SK. gel on the side
 Amount Ordered 650 SK 50/50 6% 370 Gil./SK.

Consisting of			
Common	325	SKs @ 6 ⁸⁵	2,226 ²⁵
Poz. Mix	325	SKs @ 3 ⁰⁰	975 ⁰⁰
Gel.	23	SKs @ 7 ⁰⁰	161 ⁰⁰
Gravel	6.15 cu yd	6.56 lbs @ 394	645 ⁸⁴
Quickset			

Handling	1 ⁰⁰ per SK	650 ⁰⁰
Mileage	44 per SK mile	208 ⁰⁰
	8 miles	
	COPY TO 11-10-93	
	Sub Total	4,866 ⁰⁹
	Total	

Floating Equipment

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 STATE CORPORATION COMMISSION
 JAN 11 1994

CONSERVATION DIVISION
 Wichita, Kansas

Thank you,
 Ken & crew