

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

RECEIVED  
JUL 17 2002  
KCC WICHITA

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

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API No. 15 - 065-22,484-00-03  
County: Graham  
NE SE NE Sec. 7 Twp. 6 S. R. 21  East  West  
1650 feet from S / (N) (circle one) Line of Section  
330 feet from (E) / W (circle one) Line of Section

**ORIGINAL**

Footages Calculated from Nearest Outside Section Corner:  
(circle one) (NE) SE NW SW  
Lease Name: Voss Well #: 4  
Field Name: New Boys

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

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Producing Formation: Oread B,L/KC,Arbuckle  
Elevation: Ground: 2186' Kelly Bushing: 2191'  
Total Depth: 3685' Plug Back Total Depth: 3708'  
Amount of Surface Pipe Set and Cemented at 256' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If Alternate II completion, cement circulated from 1818' depth set 1818' Feet  
If Alternate II completion, cement circulated from 1818' feet depth to surface w/ 285 sx cm.

If Workover/Re-entry: Old Well Info as follows:  
Operator: Ritchie Exploration, Inc.  
Well Name: Voss #4  
Original Comp. Date: 10/21/88 Original Total Depth: 3730'  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled Docket No. CO 9017  
 Dual Completion Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No. \_\_\_\_\_  
4/23/02 4/30/02  
Spud Date or Date Reached TD Completion Date or Completion Date

Drilling Fluid Management Plan Workover & B. 20. 02  
(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.: \_\_\_\_\_

**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: [Signature]  
Title: Production Manager Date: 7/15/02  
Subscribed and sworn to before me this 15th day of July, 2002.  
Notary Public: Karen Hopper  
Date Commission Expires: 10/27/03

**KAREN HOPPER**  
Notary Public - State of Kansas  
My Appt. Expires 10/27/03

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

Operator Name: Ritchie Exploration, Inc. Lease Name: Voss Well #: 4  
 Sec. 7 Twp. 6 S. R. 21 East  West County: Graham

**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 <input checked="" type="checkbox"/> Yes No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes No  Cores Taken Yes <input checked="" type="checkbox"/> No  Electric Log Run <input checked="" type="checkbox"/> Yes No <i>(Submit Copy)</i>  List All E. Logs Run:  RA Guard	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Log</td> <td style="width:55%;">Formation (Top), Depth and Datum</td> <td style="width:30%;">Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td colspan="3" style="text-align: center;">See attached</td> </tr> </table>	Log	Formation (Top), Depth and Datum	Sample	Name	Top	Datum	See attached		
Log	Formation (Top), Depth and Datum	Sample								
Name	Top	Datum								
See attached										

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#	256	60/40 poz	175	2% gel, 3% cc
production	7 7/8	4 1/2	10.5#	3728	60/40 poz	125	10% salt, 3% gils

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 <i>(Amount and Kind of Material Used)</i>	Depth
4	3693.5'-3695.5'	350 gals 15% MCA	
3	3599'-3602'	1800 gals 15% MCA	
2	3588'-92', 3482'-85', 3451'-53'	1300 gals 28% NE	
3	3376'-3380'	450 gals 15% NE	
	drilled out CIBP @ 3685'	cleaned out to 3708'	

TUBING RECORD		Size	Set At	Packer At	Liner Run	Yes	No
		2 3/8"	3670'				
Date of First, Resumed Production, SWD or Enhr.		Producing Method					
4/30/02		Flowing		<input checked="" type="checkbox"/> Pumping		Gas Lift Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	4.37		2.34				

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

Vented     Sold     Used on Lease     Open Hole     Perf.     Dually Comp.     Commingled    Oread b, L/KC, Arbuckle  
*(If vented, Sumit ACO-18.)*       Other (Specify) \_\_\_\_\_

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

**CONFIDENTIAL**

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

**ALLIED CEMENTING CO., INC.** No. 4400  
 Home Office P. O. Box 31 Russell, Kansas 67665 **ORIGINAL**

Date	7-18-88	Sec.	7	Twp.	6 <sup>W</sup>	Range	21 <sup>W</sup>	Called Out	2:30 P.M.	On Location	5:45 P.M.	Job Start	7:00 PM	Finish	7:30 PM
Case	VOSS	Well No.	#4	Location				18 <sup>2</sup> 24 JCT 12N 1W 3/8 S	County	Graham	State	Ks.			

Contractor	Munfin Drilling Co	Rig #	8
Type Job	Set Surface Pipe		
Pipe Size	12 1/4"	T.D.	257'
Log	8 3/8"	Depth	257'
Log Size		Depth	KCC
Fill Pipe		Depth	JUL 15 2002
Shoe Joint		Depth	CONFIDENTIAL
Cement Left in Csg.	15'	Shoe Joint	
Pressure Max.		Minimum	-
Displacement Line		Displace	X

Owner	Same
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. 15065 224840000	
Charge To	Ritchie Exploration, Inc.
Street	125 N. Market, Suite 1000
City	Wichita, State Ks 67202
The above was done to satisfaction and supervision of owner agent or contractor	
Purchase Order No.	
X	Floyd Bellitt
<b>CEMENT</b>	
Amount Ordered	175 sks 40/40 @ 22.00/sk, 320 c.c.
Consisting of	
Common	105 sks @ 5.00/sk = 525.00
Poz. Mix	70 sks @ 2.25/sk = 157.50
Gel.	4 sks @ 6.75/sk = 27.00
Chloride	5 sks @ 20.00/sk = 100.00
Quickset	
Sales Tax	
Handling	@ 90¢/sk (175 sks) = 157.50
Mileage	@ 0.34/sk./mi (40 mi.) = 210.00
Sub Total \$ 1177.00	
Total	
Floating Equipment	Thanks

EQUIPMENT		
No.	Cementer	
mptrk 191	Helper	Gary H.
		Marlyn K.
mptrk	Cementer	
	Helper	
	Driver	SCOTT R.
lktrk #60		
lktrk	Driver	

DEPTH of Job		
Reference #	Description	Cost
#1	Cumtruck surface	360.00
#14	Mileage @ 1.00/mi	40.00
#8	1-8 3/8" surface pipe	40.00
Sub Total		440.00
Tax		
Total		

Remarks:  
 Cement Circulated

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**JUL 17 2002**

**KCC WICHITA**

*15065 224840000*

T #1 3355'-3386' (Oread A&B zones). Rec. 120'  
p; 60' mud & water cut oil; 300' oil cut watery  
d; & 720' salt water.  
P:137-286#/30"; ISIP:968#/30";  
P:413-508#/30"; FSIP:979#/30".

T #2 3392'-3464' (Toronto & Top zone). Rec. 10'  
mud w/a few oil spots.  
P:84-84#/30"; ISIP:455#/30";  
P:84-84#/30"; FSIP:370#/30".

T #3 3468'-3504' (35' & 50' zones). Rec. 25' of  
d w/oil spots. IFP:63-63#/30"; ISIP:317#/45";  
P:74-74#/30"; FSIP:233#/45".

T #4 3504'-3533' (70', 90' & 100' zones). Rec. 1'  
free oil & 9' of heavy oil cut mud.  
P:74-74#/30"; ISIP:95#/45";  
P:74-74#/30"; FSIP:74#/45".

Name	Top	Bottom
Anhydrite	1842'	(+ 349)
B/Anhydrite	1874'	(+ 317)
Topeka	3199'	(-1008)
Heebner	3402'	(-1211)
Toronto	3533'	(-1242)
Lansing	3450'	(-1259)
B/KC	3637'	(-1446)
Arbuckle	3693'	(-1502)
LTD	3729'	(-1538)

DST #5 3549'-3616' (140', 160' & 180' zones).  
Rec. 180' gip; 65' free oil; and 55' of  
oil cut mud.  
IFP:84-95#/45"; ISIP:254#/60";  
FFP:105-105#/45"; FSIP:243#/60".

**PLEASE KEEP THIS  
INFORMATION  
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7-15-2004



**RELEASED**

AUG 26 2004

**FROM CONFIDENTIAL**

July 15, 2002 **CONFIDENTIAL**

State Corporation Commission  
Conservation Division  
130 S. Market, Room 2078  
Wichita, KS 67202

**KCC**

JUL 15 2002

RE: #4 Voss  
NE SE NE  
Sec. 7-6S-21W  
Graham County, Kansas

**CONFIDENTIAL**

To Whom It May Concern:

Enclosed please find Ritchie Exploration, Inc.'s ACO-1 and Commingling Application (Form ACO-4) for the above referenced well. Enclosed are the required attachments for both forms. We are requesting the information be held confidential for a one year period.

If you have any questions, please feel free to call the undersigned or John Niernberger at 316-691-9500. Thank you.

Sincerely,

*Karen Hopper*

Karen Hopper  
Production Assistant

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Enclosures



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AUG 26 2004

JUL 23 2002

FROM CONFIDENTIAL

KCO WICHITA

*Final  
ACO-1*

July 22, 2002

State Corporation Commission  
Conservation Division  
130 S. Market, Room 2078  
Wichita, KS 67202

RE: #4 Voss  
NE SE NE  
Sec. 7-6S-21W  
Graham County, Kansas

*1506522484-00-02 - ??03?*

To Whom It May Concern:

Ritchie Exploration, Inc. requests the ACO-1 form on the above captioned well be held confidential for an additional one (1) year period to July 15, 2004.

Thank you for the time taken with this matter.

Sincerely,

RITCHIE EXPLORATION, INC.

Karen Hopper  
Production Assistant

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