

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

Form ACO-1
 September 1999
 Form Must Be Typed

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: _____
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW 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: 10/30/84 Original Total Depth: 3970'
 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. _____

12/14/05	12/16/05	12/27/05
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

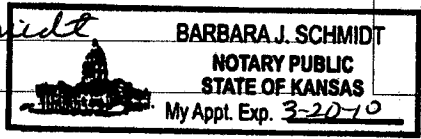
API No. 15 - 195-21596-0070
 County: Trego
SW SW SW Sec. 18 Twp. 11 S. R. 20 East West
330 feet from S / N (circle one) Line of Section
330 feet from E / W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: Harger A Well #: 4
 Field Name: Hixson
 Producing Formation: LKC, Marmaton
 Elevation: Ground: 2254' Kelly Bushing: 2259'
 Total Depth: 3970' Plug Back Total Depth: 3888'
 Amount of Surface Pipe Set and Cemented at 219' Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set 1719' Feet
 If Alternate II completion, cement circulated from 1719'
 feet depth to surface w/ 475 sx cmt.
ALT II WITH 4-27-06
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 No.: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ Docket No.: _____

CONFIDENTIAL

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: 03-27-06
 Subscribed and sworn to before me this 27th day of March
 20 06
 Notary Public: Barbara J. Schmidt
 Date Commission Expires: 3-10-2010



KCC Office Use ONLY

YES Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

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Operator Name: Ritchie Exploration, Inc. Lease Name: Harger A Well #: 4
 Sec. 18 Twp. 11 S. R. 20 East West County: Trego

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 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 Document)

List All E. Logs Run:

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	12 1/4"	8 5/8"	23#	219'	Common Quikset	160	
Production	7 7/8"	4 1/2"	10.5#	3966'	60/40 Pozmix	175	

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	3585'-3588' (LKC-70') 10/84	500 gals, 15% NE	
2	3552.5'-3556' (LKC-35') 10/84	500 gals, 15% NE	
2	3514'-3520' (LKC-Top) 10/84	750 gals, 28% NE	
1	3848'-3870' (Marmaton) 10/84	500 gals, 15% acid	
	**Drilled out (Marmaton) CIBP @ 3838' 12/05		

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	3864'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumerd Production, SWD or Enhr. 12/27/05 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	13.32		11.68		

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.) METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)

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DST #1 from 3471' to 3530' (Top & Toronto). Recovered 365' of mud cut oil.
IFP:70-128#/30"; ISIP:432#/30";
FFP:151-175#/30"; FSIP:432#/30".

DST #2 from 3535' to 3580' (35' & 50' zones). Recovered 335' of oil cut mud.
IFP:58-128#/30"; ISIP:385#/30";
FFP:140-175#/30"; FSIP:373#/30".

DST #3 from 3576' to 3595' (70' zone). Recovered 530' of clean gassy oil.
IFP:70-116#/30"; ISIP:303#/30";
FFP:140-175#/30"; FSIP:303#/30".

DST #4 from 3635' to 3705' (140',160',180' zones). Recovered 5' of mud.
IFP:58-58#/30"; ISIP:70#/30";
FFP:58-58#/30"; FSIP:70#/30".

DST #5 from 3704' to 3755' (200' & 220' zones). Recovered 5' of mud, no show of oil.
IFP:58-58#/30"; ISIP:210#/30";
FFP:58-58#/30"; FSIP:70#/30".

DST #6 from 3849' to 3890' (Marmaton). Recovered 154' of gassy mud cut oil.
IFP:46-58#/30"; ISIP:1203#/45";
FFP:70-70#/30"; FSIP:1157#/45".

Name	Top	Bottom
Anhydrite	1718'	(+ 541)
B/Anhydrite	1760'	(+ 499)
Topeka	3263'	(-1004)
Heebner	3475'	(-1216)
Toronto	3496'	(-1237)
Lansing	3512'	(-1253)
B/KC	3746'	(-1487)
Marmaton	3838'	(-1579)
Arbuckle	3951'	(-1692)
LTD	3970'	(-1711)

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COMMINGLING 82-3-123

OPERATOR	<u>Ritchie Exploration, Inc.</u>	DOCKET #		DATE	<u>3/30/2006</u>
ADDRESS	<u>P.O. Box 783188</u>	OPERATOR LICENSE #	<u>4767</u>		
	<u>Wichita, KS 67278-3188</u>	API NO.	<u>15 - 195-21596</u>		
LEASE	<u>Harger A</u>	WELL NO.	<u>4</u>		
QUARTER	<u>SW SW SW</u>	SEC	<u>18</u>	TWP	<u>11S</u>
				RGE	<u>22</u>
					<input type="checkbox"/> E <input checked="" type="checkbox"/> W

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1. Description of the well.
A plat showing:
- a) Location of subject well.
 - b) Location of other wells on the lease.
 - c) Location of offsetting wells and operator's name.

2. Name and upper and lower limits of the source of supply involved.

(NAME)	<u>LKC</u>	(PERFS)	<u>3514' - 3588'</u>
(NAME)	<u>Marmaton</u>	(PERFS)	<u>3838' - 3780'</u>
(NAME)	<u> </u>	(PERFS)	<u> </u>
(NAME)	<u> </u>	(PERFS)	<u> </u>

3. Wireline log of the subject well.

4. A completed ACO-1 form

5. Expected production, oil-gas-water, for each source of supply.

FORMATION <u>LKC</u>	BOPD	<u>4.33</u>	MCF		BWPD	<u>847</u>
FORMATION <u>Marmaton</u>	BOPD	<u>8.99</u>	MCF		BWPD	<u>3.21</u>
FORMATION <u> </u>	BOPD		MCF		BWPD	
FORMATION <u> </u>	BOPD		MCF		BWPD	
FORMATION <u> </u>	BOPD		MCF		BWPD	
ESTIMATED COMBINED TOTAL	BOPD	<u>13.32</u>	MCF		BWPD	<u>11.68</u>

6. Application shall be supported by an affidavit and shall contain a certificate showing service of a copy of the application without attachments to the offsetting operators. You are responsible for this. Unless waivers are obtained, applications are held for fifteen days to give the offsetting operators time to file objections. If waivers are obtained, applications can be processed immediately. If objections are filed, applications are set for hearing.

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

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

ALLIED CEMENTING CO., INC.

N^o 39802

Home Office P. O. Box 31

Russell, Kansas 67665

Date	9-21-84	Sec.	18	Twp.	11S	Range	22W	Called Out		On Location	7:30 AM	Job Start		Finish	12:45 PM
Lease	Harger	Well No.	A-4	Location	Ogkwa 1/4 3N-3W-5N-4E						County	Wichita	State	Ks	
Contractor	Martin	Rig	18	Owner	Y2S										
Type Job	Production		String												
Hole Size	7 7/8"		T.D.	3970'											
Csg. Size	4 1/2"		Depth	3958'											
Tbg. Size			Depth												
Drill Pipe			Depth												
Tool	DV. 1719'		Depth												
Cement Left in Csg.	31 1/2'		Shoe Joint	31 1/2'											
Press Max.			Minimum												
Meas Line	✓		Displace												
Perf.															

ORIGINAL

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 Tom Poo**

CEMENT

Amount Ordered **475 SK 50 670 gal**

Consisting of
 Common **238 SK at 5.00 1190.00**
 Poz. Mix **237 SK at 2.10 497.70**
 Gel. **28 SK at 7.25 203.00**

Chloride
 Quickset

Handling **90¢ per SK 452.70**

Mileage **66¢ per ton mi. 555.00**

Sub Total
 Total **2899.00**

Floating Equipment

EQUIPMENT

No	Cementer	MIKE
Pumptrk 102	Helper	FRANK
No	Cementer	
Pumptrk	Helper	
	Driver	CHRIS
Bulktrk 95	Driver	

DEPTH of Job

Reference:	Pumptruck	600.00
	Sub Total	
	Tax	
	Total	600.00

Remarks:
Cement C.I.
OCT 3 Recd

THANK YOU.

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KCC WICHITA

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

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

New

ALLIED CEMENTING CO., INC.

No 39801

Home Office P. O. Box 31

Russell, Kansas 67665

Date	9-21-84	Sec.	18	Twp.	11S	Range	22W	Called Out		On Location	7:30 AM	Job Start		Finish	10:30 AM
Lease	Harger	Well No.	A 4	Location	Dakalla	3N	3E	County	Wichita	State	Ks				
Contractor	Murfin	Rig	16	Owner ORIGINAL											
Type Job	Production string														
Hole Size	7 7/8"	T.D.	3970'												
Csg. Size	4 1/2"	Depth	3958'												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool	DV. 1719'	Depth													
Cement Left in Csg.	31 1/2'	Shoe Joint	31 1/2'												
Press Max.		Minimum													
Meas Line	✓	Displace													
Perf.															

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 **CONFIDENTIAL**
 Street 125 N. Market Suite 950
 City Wichita State Ks. 67802

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

Purchase Order No.
 X *Tom Pord*

CEMENT		3% gilsonite
Amount Ordered	185 SK ^{60/40}	10% salt
Consisting of	10 SK salt flush	
Common	111 SK at 5.00	555.00
Poz. Mix	74 SK at 2.10	155.40
Gel.		
Chloride		
Quicks Salt	28 SK at 4.75	133.00
Gilsonite	471 LB at 29¢	136.59

EQUIPMENT

No.	Cementer	<i>Mike</i>
Pumptrk 102	Helper	<i>Frank</i>
No.	Cementer	
Pumptrk	Helper	
	Driver	<i>Kim</i>
Bulktrk 155		
Bulktrk	Driver	

Handling	90¢ per SK	195.00
Mileage	66¢ per TAN mi.	244.00
Sub Total		
Total		1419.76

DEPTH of Job		
Reference:	<i>Pumptruck</i>	838.00
	<i>\$1.00 per mi.</i>	39.00
Sub Total		
Tax		
Total		877.00

Remarks:
Float Held
 OCT 3 Rec'd

Floating Equipment		
1- Guide Shoe		83.00
1- AFU Insert		140.00
6- centralizers		246.00
1- Basket		110.00
1- DV. Tool		2,267.00
Thank you	Total -	2,846.00

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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 39908

Home Office P. O. Box 31

Russell, Kansas 67665

Date	9.13.84	Sec.	18	Twp.	11S	Range	22W	Called Out		On Location		Job Start	6:45 PM	Finish	2:00 PM	
Lease	Harger	Well No.	A-4	Location	Ogallah	3N 3W 5N			County	Trego	State	Ks				
Contractor	Martin #16											Owner	IW 15			
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.	220												
Csg. Size	8 1/8		Depth	218												
Tbg. Size			Depth													
Drill Pipe			Depth													
Tool			Depth													
Cement Left in Csg.	10-15		Shoe Joint													
Press Max.			Minimum													
Meas Line			Displace	✓												
Perf.																

EQUIPMENT

Pumptrk	153	No	Cementer	Dave
			Helper	
Pumptrk		No	Cementer	
			Helper	
Bulktrk	155		Driver	Kim
			Driver	

DEPTH of Job		
Reference:	Pump trk chg	360.00
	1.00 per mile	39.00
	8 1/8 Plug	40.00
	Sub Total	
	Tax	
	Total	439.00

Remarks: Cement Crt

SEP 17 Rec'd

Charge To **CONFIDENTIAL**
 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 **ORIGINAL**
 Mart Shefik
 CEMENT

Amount Ordered 160 cov & set
 Consisting of
 Common 160 @ 5.00 800.00
 Poz. Mix
 Gel.
 Chloride
 Quickset 8 units @ 25.00 200.00

Sales Tax
 Handling 90¢ Per sk 148.50
 Mileage 66¢ Per ton mile 199.29
 Sub Total
 Total 1347.79

Floating Equipment

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