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Form ACO-1  
September 1999  
Must Be Typed

ORIGINAL

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

AUG 12 2004  
KCC WICHITA

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

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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: Ritchie Exploration

Well Name: Spena  
Original Comp. Date: 04/02/81 Original Total Depth: 4081  
\_\_\_\_ 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. \_\_\_\_\_

04/26/04      04/29/04      04/29/04  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 195-20785 -0001  
County: Trego  
NW SE NE Sec. 31 Twp. 11 S. R. 22  East  West  
1650' feet from S /  (circle one) Line of Section  
990' feet from  (circle one) W Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one)  NE SE NW SW  
Lease Name: Spena Well #: 3  
Field Name: Bin

Producing Formation: LKC  
Elevation: Ground: 2387' Kelly Bushing: 2392'  
Total Depth: 4081 Plug Back Total Depth: 4007'  
Amount of Surface Pipe Set and Cemented at 172 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 NHM 11-24-06  
(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: \_\_\_\_\_  
Title: Production Manager Date: 08/09/04  
Subscribed and sworn to before me this 09 day of August  
20 04.  
Notary Public: Jennifer L. Foss  
Date Commission Expires: 10/14/07

JENNIFER L. FOSS  
Notary Public - State of Kansas  
My Appt. Expires 10-14-07

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

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Operator Name: Rtichie Exploration, Inc. Lease Name: Spena Well #: 3  
 Sec. 31 Twp. 11 S. R. 22  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)

List All E. Logs Run:

RA Guard Log

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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"	28#	172'	common quickset	160	
Production	7 7/8"	4 1/2"	10.5#	4077'	60-40 pozmix	150	10% Salt

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
1	3971' - 4002' - Marmaton (05/81)	1000 gallons, 15% acid	
2	3641' - 3645' - LKC (7/81)	500 gallons, 28% acid	
4	3821' - 3825' - LKC (04/04)	500 gallons, 28% acid	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2.375"	3999'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 04/30/04			Producing Method <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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
	3		12		

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)

**WELL LOG**

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
<p>DST #1 from 3543' to 3557' (Topeka) of muddy water. IFP:32-42#/30"; ISIP:1177#/30"; FFP:74-74#/30"; FSIP:1187#/45".</p>	Recovered	150'	ELECTRIC	LOG TOPS
<p>DST #2 from 3596' to 3652' (Toronto and top zones) Recovered 210' of slightly oil cut mud (10% oil). IFP: 53-138#/30"; ISIP:850#/30"; FFP:160-160#/30"; FSIP:839#/30".</p>			Anhydrite B/Anhydrite Topeka Heebner Toronto Lansing B/KC Marmaton	1825' (+ 567) 1872' (+ 520) 3388' (- 996) 3602' (-1210) 3623' (-1231) 3639' (-1247) 3874' (-1482) 3970' (-1578)
<p>DST #3 from 3661' to 3706' (35' &amp; 50' zones) Recovered 5' of mud. IFP:42-42#/30"; ISIP:42#/30"; FFP:42-42#/30"; FSIP:42#/30".</p>			Basal Penn.Sd. Arbuckle LTD	4026' (-1634) 4070' (-1678) 4081' (-1689)
<p>DST #4 from 3701' to 3728' (70' &amp; 90' zones) Recovered 975' of mud with no show of oil. IFP:128-308#/30"; ISIP:669#/30"; FFP:393-447#/30"; FSIP:659#/30".</p>				
<p>DST #5 from 3755' to 3807' (140' &amp; 160' zones) Recovered 10' of mud. IFP:53-32#/30"; ISIP:106#/45"; FFP:32-32#/30"; FSIP: 43#/45".</p>				
<p>DST #6 from 3802' to 3826' (180 zone) Recovered 5' of oil cut mud and 189' of muddy oil. IFP: 53- 74#/30"; ISIP:244#/30"; FFP:117-106#/30"; FSIP:202#/30".</p>				
<p>DST #7 from 3969' to 4005' (Marmaton) Recovered 524' mud with a few specks of oil (packer leaked). IFP:106-95#/30"; ISIP:1019#/30"; FFP:106-95#/30"; FSIP:1093#/30".</p>				
<p>DST #8 from 4000' to 4050' (Basal Sand) Recovered 10' mud with no show of oil. IFP:53-53#/30"; ISIP:64#/30"; FFP:53-53#/30"; FSIP:53#/30".</p>				

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