

ORIGINAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

CONFIDENTIAL

KCC WICHITA

Operator: License # 4767
Name: Ritchie 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:

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: 05/15/77 Original Total Depth: 4063
Deepening Re-perf. Conv. to Enhr./SWD
Plug Back Plug Back Total Depth
Commingle Docket No.
Dual Completion Docket No.
Other (SWD or Enhr.?) Docket No.

04/29/04 05/04/04 05/04/04
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 195-20389 - 0001
County: Trego
E2 NW NW NE Sec. 31 Twp. 11 S. R. 22 East West
330' feet from S / (N) (circle one) Line of Section
2190' feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW
Lease Name: Spena Well #: 1
Field Name: Bin

Producing Formation: LKC
Elevation: Ground: 2362' Kelly Bushing: 2367'
Total Depth: 4063 Plug Back Total Depth: 3855'
Amount of Surface Pipe Set and Cemented at 133 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 WDM 11-29-06
(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: [Signature]
Title: Production Manager Date: 08/09/04
Subscribed and sworn to before me this 09 day of August
20 04
Notary Public: [Signature]
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 #: 1
 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

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"	24#	133'		100	
Production	7 7/8"	4 1/2"	10.5#	3909'	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
4	3492.5' - 3799.5' - LKC (12/76)	1500 gallons, 15% acid	
2	3775' - 3783' - LKC (02/79)	800 gallons, 28% acid	
4	3690.5' - 3693.5' - LKC (05/04)	625 gallons, 28% acid	
4	3659.5' - 3662.5' - LKC (05/04)	625 gallons, 28% acid	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2.375"	3821'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 05/05/04			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
	13		45		

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)
 METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled
 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
DST #1 3580'-3630' weak blow. Rec 180' muddy water IFP 63-100#/30" FFP 100-138#/45" IBHP 1007#/45" FBHP 1007#/45"				
DST #2 3744'-3770' rec 20' slightly oil cut mud IFP 25-25#/30" FFP 38-38#/30" IBHP 75#/30" FBHP 100#/30"				
DST #3 2768'-3790' rec 270' gas in pipe and 30' oil specked mud, 60' slightly oil cut mud, 65' heavily oil cut mud, 55' very heavy oil cut mud, (210' fluid). IFP 38-75#/30" FFP 75-113#/60" IBHP 814#/45" FBHP 657#/45"				
DST #4 3790'-3810' gas to surface in 20", too small to measure Rec 2660' clean oil and 180' mud cut oil, no water IFP 363-766#/30" FFP 838-995#/60" IBHP 1056#/45" FBHP 1056#/45"			ELECTRIC LOG TOPS Anhydrite 1806' (+ 562) B/Anhydrite 1852' (+ 515) Topeka 3365' (- 998) Heebner 3580' (-1213) Toronto 3602' (-1235) Lansing 3617' (-1250) B/KC 3846' (-1479) Marmaton 3946' (-1579) Cherokee Shale 3984' (-1617) Cherokee 4002' (-1635) Arbuckle 4045' (-1678) LTD 4062' (-1695)	
DST #5 3810'-3930' rec 20' mud IFP 25-38#/30" FFP 38-50#/30" IBHP 1080#/45" FBHP 838#/45"				
DST #6 3970'-5026' rec 40' mud IFP 50-50#/30" FFP 50-50#/30" IBHP 524#/45" FBHP 250#/45"				

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