

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

API NO. 15- 063-21,399 FEB 7 11-31/W

COPY

County Gove 70 S OF CONFIDENTIAL  
NW- NE- SE Sec. 17 Twp. 11S Rge. 31W XW

Operator: License # 4767

Name: Ritchie Exploration, Inc.

Address 125 N. Market, Suite 1000

City/State/Zip Wichita, KS 67202

Purchaser: n/a

Operator Contact Person: Rocky Milford

Phone ( 316 ) 267-4375

Contractor: Name: White & Ellis Drilling Co.

License: 5420

Wellsite Geologist: Kitt Noah

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., etc.)

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

Operator: FEB 4 1992

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBSD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

1/04/92 1/16/92 1/17/92  
Spud Date Date Reached TD Completion Date

2240' Feet N/S (circle one) of Section Line  
990' Feet E/W (circle one) of Section Line

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

Lease Name Engel Well # 3

Field Name unnamed

Producing Formation n/a

Elevation: Ground 2992' KB 2997'

Total Depth: 4675' PBSD n/a

Amount of Surface Pipe Set and Cemented at 211' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set n/a Feet

If Alternate II completion, cement circulated from 211'

feet depth to surface w/ 140 sx cat.

Drilling Fluid Management Plan  
Fluid to be collected from the Reserve Pit? NO

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CONSERVATION DIVISION WICHITA, KS

chloride content 1,200 ppm Fluid volume 300 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite? n/a

RELEASED

Operator Name \_\_\_\_\_

Lease Name MAR 1 1994

Quarter Sec. Twp. S Rge. E/W  
County \_\_\_\_\_ Docket No. \_\_\_\_\_  
FROM 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 2/03/92

Subscribed and sworn to before me this 3rd day of February, 1992.

Notary Public Linda K. Rice  
LINDA K. RICE  
NOTARY PUBLIC  
STATE OF KANSAS  
My App. Exp. 6/7/92

Date Commission Expires \_\_\_\_\_

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
KCC  SWD/Rep  NGPA  
KGS  Plug  Other (Specify) P

Sec. 17 Twp. 11S Rge. 31W  
 East  
 West

County Gove

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, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra 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 (Submit Copy.)  
List All E.Logs Run:  
No log.

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

See attached page.

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CASING RECORD <input type="checkbox"/> New <input checked="" 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#	211'	60/40 poz	140	2%gel, 3%CC

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

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

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj.				Producing Method <input type="checkbox"/> Flowing <input 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

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACD-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

17-11-31w  
KCC

FEB 0 2  
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**RELEASED**

MAR 1 1 1994

FROM CONFIDENTIAL

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INFORMATION  
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#3 Engel  
70' S of NW NE SE  
Section 17-11S-31W  
Gove County, Kansas  
API# 15-063-21,399  
ACO-1 Form  
Page 2

DRILL STEM TESTS

DST #1 from 4101' to 4118'  
(L/KC "D" & "E" zones).  
Misrun. Hit bridge at 2650'.

DST #2 from 4101' to 4118'  
(L/KC "D" & "E" zones).  
Recovered 10' of watery mud.  
IFP:20-20#/30"; ISIP:1085#/30";  
FFP:30-30#/30"; FSIP:1063#/30".

DST #3 from 4173' to 4330'  
(L/KC "H-L" zones). Recovered  
240' of slightly watery cut  
mud, no show of oil.  
IFP:133-188#/30"; ISIP:1713#/30";  
FFP:188-211#/30"; FSIP:1548#/30".  
(Lost circulation at 4234'  
resulted in supercharged SIPs)

DST #4 from 4537' to 4600' (Johnson zone). Recovered 30'  
of mud, few spots of oil.  
IFP:33-33#/30"; ISIP:721#/30";  
FFP:33-33#/30"; FSIP:88#/30".

SAMPLE TOPS

Anhydrite	2517' (+ 480)
B/Anhydrite	2545' (+ 452)
Heebner	3994' (- 997)
Lansing	4037' (-1040)
Stark	4262' (-1265)
B/KC	4324' (-1327)
Marmaton	4354' (-1357)
Pawnee	4444' (-1447)
My. Station	4491' (-1494)
Ft. Scott	4513' (-1516)
Cherokee	4541' (-1544)
Johnson zn.	4586' (-1589)
Miss.	4618' (-1621)
RTD	4675' (-1678)

**RECEIVED**  
KANSAS CORPORATION COMMISSION

FEB 4 1992

CONSERVATION DIVISION  
WICHITA, KS