

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

gms

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

COPY

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

If Workover/Re-entry: Old Well Info as follows:
Operator: Ritchie Exploration, Inc.

Well Name: Werth #1
Original Comp. Date: 3/2/95 Original Total Depth: 3455'
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. CO 5952
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

3/4/02 3/18/02
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 051-20,699 - 0003
County: Ellis
SE SW NE Sec. 36 Twp. 15 S. R. 18 East West
2310' feet from S / (N) (circle one) Line of Section
1650' feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW
Lease Name: Werth Well #: 1
Field Name: Gottschalk
Producing Formation: Topeka, Oread A/B, Toronto, LKC

Elevation: Ground: 1895' Kelly Bushing: 1900'
Total Depth: 3455' Plug Back Total Depth: 3375'
Amount of Surface Pipe Set and Cemented at 1053' Feet
Multiple Stage Cementing Collar Used? Yes No
_____ show depth set _____ Feet
If Alternative completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Workover Ed 9-11-02
(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.: _____

Release
JUL 15 2002
From
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: 5/30/02
Subscribed and sworn to before me this 30th day of May
2002
Notary Public: Karen Hopper
Date Commission Expires: _____

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: Werth Well #: 1
 Sec. 36 Twp. 6 S. R. 18 East West County: Ellis

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stem 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 <i>(Attach Additional Sheets)</i> | <input checked="" type="checkbox"/> Yes | No | Log | Formation (Top), Depth and Datum | Sample |
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes | No | Name | Top | Datum |
| Cores Taken | Yes | <input checked="" type="checkbox"/> No | Topeka | 2846' | -946 |
| Electric Log Run <i>(Submit Copy)</i> | <input checked="" type="checkbox"/> Yes | No | Oread A/B | 3039' | -1139 |
| List All E. Logs Run: | | | Toronto | 3154' | -1254 |
| RA Guard Log | | | L/KC | 3184' | -1284 |

| 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 | 28# | 1053 | common | 475 | |
| Production | 7 7/8 | 5 1/2 | 14# | 3452.5 | pozmix | 130 | |
| | | | | | | | |

| 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 |
|----------------|---|---|-------|
| 3 | 3074'-3078';3065'-3070';3081'-3090';2901'-2910' | 400 gallons 15% MCA | |
| 3 | 3314'-3320'/3269.5'-3272' | 750 gallons 15% NE/600 gallons 15% NE | |
| 2 | 3336'-3338' | 500 gallons 15% NE | |
| 2 | 3223'-3227'/3154.5'-3157.5' | 700 gallons 15% NE/750 gallons 15% NE | |
| | Drilled out cast-iron bridge plug @ 3320', | cleaned out to 3392' | |

| TUBING RECORD | | Size | Set At | Packer At | Liner Run | Yes | No |
|---|-----------|------------------|-------------|---------------|---|-------------------------------------|--------------------------|
| | | 2 3/8 | 2900' | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Date of First, Resumed Production, SWD or Enhr. | | Producing Method | | Flowing | <input checked="" type="checkbox"/> Pumping | Gas Lift | Other (Explain) |
| 3/18/02 | | | | | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity | | |
| | 2.0 | 15 MCF | 7.0 | 7.5:1 | | | |

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: Topeka, Oread A/B, Toronto, LKC.

