Operator: Ritchie Exploration, Inc. 
License #: 4767 
Address: P.O. Box 783188 
City/State/Zip: Wichita, KS 67278-3188 
Operator Contact Person: Karen Hopper 
Phone: (316) 691-9500 
Contractor: Licensor: 
Wellsite Geologist: 
Designated Type of Completion: 
- New Well 
- Re-Entry 
- Workover 
- Oil 
- SWD 
- SIOW 
- 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: Nola Frazier 
Original Comp. Date: 7/26/84 Original Total Depth: 3736' 
- 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. 
Spud Date or Recompletion Date: 11/14/01 
Completion Date: 11/17/01 
County: Graham 
Footages Calculated from Nearest Outside Section Corner: 
- SW-SWNE Sec. 7 Twp. 6 S. R. 21 
- East West lines 
- SWNE 2310 feet from S (circle one) Line of Section 
- NESE 4900 feet from E (circle one) Line of Section 
Footage Calculated from Nearest Outside Section Corner: 
Lease Name: Nola Frazier 
Well #: 1 
Producing Formation: LKC, Oread B, Toronto 
Elevation: Ground: 2206' 
Kelly Bushing: 2211' 
Total Depth: 3736' 
Plug Back Total Depth: 3652' 
Amount of Surface Pipe Set and Cemented: 250 Feet 
Multiple Stage Cementing Collar Used? 
- Yes 
- No 
If Alternate II completion, cement circulated from 1847 Feet 
Date to surface w/sx cmt. 
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 hauling 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: 
Date: 
Title: Production Manager 
Date: 2/8/02 
Subscribed and sworn to before me this 8th day of February 
2002 
Notary Public: Karen Hopper 
Notary Public - State of Kansas 
My Appt. Expires: 1/31/03 
Date Commission Expires: 

Operator Name: Ritchie Exploration, Inc.  Lease Name: Nola Frazey  Well #: 1
Sec. 7  Twp. 6  S.  R. 21  □ East  ☑ West  County: Graham

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  ☑ Log Formation (Top), Depth and Datum  □ Sample
Samples Sent to Geological Survey  ☑ Yes  □ No
Cores Taken  □ Yes  ☑ No
Electric Log Run  ☑ Yes  □ No

List All E. Logs Run:
R A Guard
Neutron Density Porosity

### CASING RECORD

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole Drilled</th>
<th>Size Casing Set (In O.D.)</th>
<th>Weight Lbs./Ft.</th>
<th>Setting Depth</th>
<th>Type of Cement</th>
<th># Sacs Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>12 1/2&quot;</td>
<td>8 5/8&quot;</td>
<td>24#</td>
<td>250'</td>
<td>common</td>
<td>200</td>
<td>3% cc, 2% gel</td>
</tr>
<tr>
<td>Production</td>
<td>7 7/8&quot;</td>
<td>5 1/2&quot;</td>
<td>14#</td>
<td>2736'</td>
<td>60/50 pot</td>
<td>125</td>
<td>10% salt</td>
</tr>
</tbody>
</table>

### ADDITIONAL CEMENTING / SQUEEZE RECORD

<table>
<thead>
<tr>
<th>Purpose:</th>
<th>Depth Top Bottom</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perforate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protect Casing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Back TD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Off Zone</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PERFORATION RECORD - Bridge Plugs Set/Type

<table>
<thead>
<tr>
<th>Shots Per Foot</th>
<th>PERFORATION RECORD - Bridge Plugs Set/Type</th>
<th>Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3607'-3610'</td>
<td>1000 gal of 28% acid</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3600'-3602'</td>
<td>600 gal of 28% acid</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3503'-3606'</td>
<td>600 gal of 28% acid</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3455'-3458'</td>
<td>600 gal of 28% acid</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3429'-3442'</td>
<td>600 gal of 15% acid</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3382.3' - 3386.3'</td>
<td>450 gal of 15% acid</td>
<td></td>
</tr>
</tbody>
</table>

**TUBING RECORD**

<table>
<thead>
<tr>
<th>Size</th>
<th>Set At</th>
<th>Packer At</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.875&quot;</td>
<td>3635'</td>
<td></td>
</tr>
</tbody>
</table>

Liner Run: □ Yes  ☑ No

Date of First, Resumed Production, SWD or Enhr.  11/17/01

Estimated Production Per 24 Hours

<table>
<thead>
<tr>
<th>Oil Bbls.</th>
<th>Gas Mcf</th>
<th>Water Bbls.</th>
<th>Gas-Oil Ratio</th>
<th>Gravity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td></td>
<td>3</td>
<td>30.9</td>
<td></td>
</tr>
</tbody>
</table>

Disposition of Gas

□ Vented  □ Sold  □ Used on Lease (If vented, Sumit ACO-18.)

□ Open Hole  □ Perf.  □ Dually Comp.  ☑ Commingled

□ Other (Specify)

Producing Method  □ Flowing  ☑ Pumping  □ Gas Lift  □ Other (Explain)

Production Interval
DST #1 from 2687' to 2770' (Neva). Recovered 605' of muddy water.
IPF:132-230#/30"; ISP:1045#/45";
FFP:263-351#/30"; FSIP:1024#/45".

DST #2 from 3363' to 3390' (Topeka). Recovered 480' of gas in pipe, 120' of oil cut mud, & 990' of clean gassy oil.
IPF:154-285#/15"; ISP:1228#/30";
FFP:406-472#/15"; FSIP:1228#/30".

DST #3 from 3405' to 3450' (Toronto). Recovered 1020' of gas in pipe, 1305' of clean gassy oil, & 120' of oil cut muddy water.
IPF:186-395#/15"; ISP:1239#/30";
FFP:515-569#/15"; FSIP:1218#/30".

DST #4 from 3448' to 3469' (Top zone). Recovered 1140' of gas in pipe, 780' of clean gassy oil, & 120' of oil cut mud.
IPF:110-175#/15"; ISP:1293#/30";
FFP:285-296#/15"; FSIP:1293#/30".

DST #5 from 3467' to 3495' (50' zone). Recovered 80' of clean gassy oil, 120' of oil cut mud, and 300' of slightly oil cut muddy water.
IPF:88-143#/30"; ISP:1218#/45";
FFP:208-230#/30"; FSIP:1218#/45".

DST #6 from 3496' to 3514' (70' zone). Recovered 1005' of clean gassy oil, 120' of gassy oil cut mud, & 840' of gas in pipe.
IPF:154-252#/15"; ISP:1196#/30";
FFP:362-406#/15"; FSIP:1185#/30".

DST #7 from 3528' to 3540' (100' zone). Recovered 10' of mud.
IPF:55-55#/30"; ISP:1207#/30";
FFP:55-55#/30"; FSIP:1175#/30".

DST #8 from 3558' to 3620' (140', 160', & 180' zones). Recovered 240' of gas in pipe and 181' of gassy muddy oil.
IPF:71-71#/30"; ISP:1250#/45";
FFP:132-132#/30"; FSIP:1218#/45".

DST #9 from 3615' to 3656' (200' & 220' zones). Recovered 1200' of muddy water.
IPF:77-274#/30"; ISP:1175#/30";
FFP:351-548#/45"; FSIP:1121#/30".

DST #10 from 3672' to 3710' (Cong. Sand) Recovered 3' of mud, no show of oil.
IPF:66-66#/30"; ISP:66#/30";
FFP:66-66#/30"; FSIP:66#/30".

Anhydrite 1868' (+ 353)
B/Anhydrite 1890' (+ 321)
Wreford 2536' (- 325)
Funston 2594' (- 383)
Beattie 2680' (- 469)
Cottonwood 2697' (- 486)
Neva 2745' (- 534)
Wabaunsee 2946' (- 735)
Tarkio 3054' (- 843)
Topeka 3178' (- 967)
Heebner 3411' (-1200)
Toronto 3438' (-1227)
Lansing 3455' (-1244)
B/KC 3644' (-1433)
Cong. Sand 3694' (-1483)
Granite Wash 3728' (-1517)
LTD 3737' (-1526)