STATE CORPORATION COMMISSION OF KANSAS OIL 4 CAS CONSERVATION DIVISION WELL COMPLETION FORM ACO-1 WELL HISTORY

| WELL COMPLETION FORM | County Osborne |
|--|--|
| ACO-1 WELL HISTORY | 100'E of the NW |
| Operator: License # 3293 | 2640 Feet from S/N (circle one) Line of Section |
| Name: Russell Oil, Inc. | 3530 Feet from (E)W (circle one) Line of Section |
| | |
| Address P.O. Box 272 | Footages Calculated from Nearest Outside Section Corner: NE, SE NW or SW (circle one) |
| city/State/Zip Russell, KS 67665 | Lease Name Sigle Trust Well # 5 |
| Purchaser: Farmland Industries, Inc. | Field Name Sigle North |
| | Producing Formation Kansas City |
| Operator Contact Person: LeRoy Holt II | Elevation: Ground 1916 KS 1921 |
| Phone (913) 483-3954 | Total Depth 3469' PRTD 3250' |
| Contractor: Name: Shields Oil Producers, Inc | Amount of Surface Pipe Set and Cemented at 954' Fee |
| License: 5184 | Multiple Stage Cementing Collar Used?Yes X N |
| Wallaite Goologist: Francis Whisler | If yes, show depth setFee |
| Designate Type of Completion New Well Re-Entry Workover | If Alternate II completion, coment circulated from |
| | feet depth tow/sx cmt |
| Gae FNNO CIGU | L |
| 16 Manhauer (To Entern and well info as follows | Drilling Fluid Management Plan Alf. 1 9-24-9810. (Data must be collected from the Reserve Pit) |
| IT WORKOVER/KE-Entry: Old Well Into as Tollows: | |
| Operator: MELEAGLU | Chloride contont 72K ppm Fluid volume 380 bbl |
| | |
| | Dewatering method used evaporation |
| Comp. Date Old Total Depth -/- 98 | Location of fluid disposal if hauled offsite. |
| Comp. Date Old Total Depth -/- 98 | Location of fluid disposal if hauled offsite: |
| Comp. DateOld Total DepthO_/-98 | Location of fluid disposal if hauled offsite. |
| Comp. Date Old Total Depth FROM CONFIDE Deepening Re-perf. Conv. to Inj/SWD Plug Back PBTD Commingled Docket No. | NTIAL Operator Name |
| Comp. DateOld Total DepthO_/-98 DeepeningRe-perfConv. to Inj/SWDPBTD | Location of fluid disposal if hauled offsite: NTIAL Operator Name Lease Name |
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| Comp. Date | Location of fluid disposal if hauled offsite: NTIAL Operator Name Lease Name |
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| Comp. Date Deepening | Location of fluid disposal if hauled offsite: NTIAL Operator Name Lease Name Cuanty Docket No. Docket No. Docket No. Docket No. Docket No. SRng. E/W County Docket No. Solution of the Kansas Corporation Commission, 200 Colorado the spud date, recompletion, workover or conversion of a well. side two of this form will be held confidential for a period of form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS its. Submit CP-111 form with all temporarily abandoned wells. Gated to regulate the oil and gas industry have been fully complience best of my knowledge. **C.C. OFFICE USE ONLY Letter of Confidentiality Attached |
| Deepening Re-perf. Conv. to Inj/SWD Plug Back PBTD Commingled Docket No. Dual Completion Docket No. Other (SWD or Inj?) Docket No. O5-03-97 05-10-97 05-29-97 Spud Date Date Reached TD Completion Date INSTRUCTIONS: An original and two copies of this form shall Derby Building, Wichita, Kansas 67202, within 120 days or Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on 12 months if requested in writing and submitted with the months). One copy of all wireline logs and geologist well MUST BE ATTACHED. Submit CP-4 form with all plugged we with and the statements berein are complete and correct to the Signature Submitted Submit CP-4 form with all plugged we statements berein are complete and correct to the Signature Submit CP-4 form with all plugged we statements berein are complete and correct to the Signature Submit CP-4 form with all plugged we statements berein are complete and correct to the Signature Submit CP-4 form with all plugged we statements berein are complete and correct to the Signature Submit CP-4 form with all plugged we statements berein are complete and correct to the Signature Submit CP-4 form with all plugged we statements berein are complete and correct to the Signature Submit CP-4 form with all plugged we statements berein are complete and correct to the Signature Submit CP-4 form with all plugged we statements berein are complete and correct to the Submit CP-4 form with all plugged we statements berein are complete and correct to the Submit CP-4 form with all plugged we statements berein are complete and correct to the Submit CP-4 form with all plugged we statements berein are complete and correct to the Submit CP-4 form with all plugged we submit CP-4 f | Operator Name Lease Name Lease Name Cuanamy Decl. TAL Twp. S. Rng. E/W County Docket No. Docket No. Side two of this form will be held confidential for a period of form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS Less Submit CP-111 form with all temporarily abandoned wells. Gated to regulate the oil and gas industry have been fully complied to the set of my knowledge. E.C.C. OFFICE USE ONLY Latter of Confidentiality Attached Vireline Log Received |
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NOTARY PUBLIC STATE OF KANSAS

MY APPT EXPIRES 10-22-97

| API NO. 15- 141-203350000

Form ACO-1 (7-91)

| Sec. 2 Twp. 10 | important top: me tool open a | s and base of forma and closed, flowing | and shut-in ora | secures what | bhan ab ! | | |
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| hydrostatic pressure if more space is nee | a, notion note | temperature, fluid | recovery, and flo | w rates if ga | s to surface dur | ing test. | Attach extra s |
| Drill Stem Tests Tak (Attach Additiona | | X Yes No | X Log | Formatio | on (Top), Dapth | and Datum | Sampl |
| Samples Sent to Geol | ogical Survey | ☐ Yes ☑ No | Name Anhydrit | te . | Тор 944' | 4 | Datus - 977 |
| Cores Taken | | ☐ yes ☑ No | Topeka | | 2836' | | 915 |
| Electric Log Run (Submit Copy.) | | X Yee Wo | Heebner Toronto LKC | | 3074' 3098' 3129' | _ | -1153 -1177 -1208 |
| List All E.Logs Run: | RAG, CBL | | Base KC | | 3458 ' | _ | -1537 |
| • | | | LTD ' | | 3469' | - | -1548 |
| | | | | | | | |
| | | CASING RECOR | ں تکا ہوں نا | lsed | | | |
| | Size Hole | ll strings set-cond | | <u> </u> | production. etc | B. | 1 |
| | Drilled | Size Casing Set (In O.D.) | Veight Lbs./Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Perce Additives |
| Surface | 121/4 | 8 5/8" | 24# | 954 | 60/40 | 350 | 3% cc 2% gel |
| Production | 7 7/8" | 5½" | 15.5# | 3467' | 75 Cammor | | |
| i L | | realiste e sum management a section de secti | | <u> </u> | | | , |
| | | V KO I Ł I ODŚ | AL CEHENTING/SQUE | EZE RECORD | | | |
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | | Type and Percent | : Additive: | |
| Protect Casing Plug Back TD Plug Off Zone | 3186-87 | common | 200 sx | non | ne . | | |
| | | | | | | | |
| Shots Per Foot | PERFORATION Specify Footag | RECORD - Bridge Pt a of Each Interval | ugs Set/Type Perforated | Acid, I (Amount and | Fracture, Shot, I Kind of Materi | Coment Squ al Used) | meze Record Depth |
| 4 | 3178-80 ' | | | 50 ⁰ gal | . 15% mud | acid | |
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| 06-02-97 | ed Production, | SWD or Inj. Prod | ucing Method | owing X | ping Gas Lif | П | |
| Estimated Production Per 24 Hours | 011 25 | Bbls. Gas | Mcf Water 22 | Bbls. | Gas-Oil R | | Gravity |
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ALLIEC CEMENTING C2., INC. 8347 REMITTO P.O. BOX 31

| RUSS | ELL, KA | NSAS 676 | 65 | RIGINIA | J.L.K | Juss | e11 |
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| DATE 5-21-97 | SEC. | TWP. | RANGE | CALLED OUT | ON LOCATION | JOB START | JOB FINISH |
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| OLD OR NEW Cir | WELL#_rcle one) | 5 | LOCATION LIRAY. | 5N 3E 1AN | | OSBORNE | KANSAS |
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| CONTRACTOR K | | 14 | ^ | OWNER | <u>;UNEIDEN:</u> | | |
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| PUMP TRUCK (| CEMENT | ER SIL | | *************************************** | | _@ | 13 |
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| BULK TRUCK | | h | | HANDLING_ MILEAGE_3 | ? ~ | _@ <u>~70.5</u> | 210,00 |
| | ORIVER - | Brent | | MILEAGE3 | 200 | | 256.00 |
| BULK TRUCK # I | ORIVER | | | e c | NUC | TOTAL | 1686.00 |
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ALLIED CEMENTING CO., INC.

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

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SERVICE POINT

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| DATE 3/10/97 SEC. A TWP. 0 RANGE | CALLED OUT | ON LOCATION | JOB START | JOB FINISH |
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| PUMP TRUCK CEMENTER 661 | | 7 | @ 1000res (****) | Care Care |
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| To Allied Cementing Co., Inc. | The state of the s | | | |
| You are hereby requested to rent cementing equipment | à. | | mom. r | |
| and furnish cementer and helper to assist owner or | | | TOTAL | |
| contractor to do work as is listed. The above work was | | | | |
| done to satisfaction and supervision of owner agent or | TAX | *4. | | |
| contractor. I have read & understand the "TERMS AND | | | | |
| CONDITIONS" listed on the reverse side. | TOTAL CHA | RGE | | |
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| g to the contract of the contr | 213000111 - | | —— II FAI | P IN 30 DATS |
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GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- —TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.
- —ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.
- —PRICES AND TAXES: All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.
- —TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.
- —PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.
- —DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.
- —SERVICE CONDITIONS AND LIABILITIES: 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.
- 3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.
- WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.
 - 2. More specifically:
- (A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.
- (C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

ALLIED CEMENTING QD., INC. 8450

| REMIT TO P.O. E | | ANSAS 676 | 665 | ORIGINA | | VICE POINT: | all. |
|--|--|--|--|---|---|--|--|
| DATE SY-Y7 | SEC. | TWP. | RANGE | CALLED OUT | ON LOCATION | JOB START | JOB FINISH |
| LEASE OLD OR NEW (Ci | | | LOCATION . | | LRAY | COUNTY | STATE |
| CONTRACTOR | shelo | Lo Del | š | OWNER | COI | VEIDENTI | AL |
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| HOLE SIZE /2 CASING SIZE | 75 | T.I | PTH 75 4 | _ CEMENT AMOUNT O | DDEDED | | |
| TUBING SIZE | | , | EPTH (EPTH | | 16/40 3 % | 166 2 1/2/ | A. |
| DRILL PIPE | | | EPTH | | | ~~ ~ · · · · · · · · · · · · · · · · · | <u></u> |
| TOOL | | | EPTH | - | | * | |
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| MEAS. LINE | | SH | IOE JOINT | POZMIX | | _@ | 66- |
| CEMENT LEFT IN | VCSG. | 161 · | | GEL | NUU | _ @ | |
| PERFS. | 1201 | 17. | | _ CHLORIDE | | _@ | Č. |
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| BULK TRUCK # | DRIVER | | 113-1-1 | MILEAGE | | 5 . 10 | |
| BULK TRUCK | DKIVEK | | · · · · · · · · · · · · · · · · · · · | - RELE | ASED | Services . | |
| | DRIVER | Na | 150× | 001 | 4 1009 | TOTAL | |
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| CONDITIONS" | | | | TOTAL CHA | RGE | · · | |
| · · | iioicu OII | and revers | o side. | DISCOUNT | | 5 TITLE | D IN 20 D 477 |
| * 4. | NEW 2 | and the same of th | | DISCOÚNT - | 1 | IF PAI | D IN 30 DAYS |
| SIGNATURE | <u>U</u> | Lev | Deery | | PRINT | ED NAME | |

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- —TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.
- —ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.
- —PRICES AND TAXES: All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.
- —TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.
- —PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.
- —DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.
- —SERVICE CONDITIONS AND LIABILITIES: 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.
- 3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.
- WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.
 - 2. More specifically:
- (A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.
- (C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

FRANCIS C. WHISLER CERTIFIED PETROLEUM GEOLOGIST 837 EAST 1ST RUSSELL, KANSAS 67665

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RELEASED

OCT 1 1998

FROM CONFIDENTIAL

15-141-20335

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RUSSELL OIL, INC. Russell, Kansas

GEOLOGICAL REPORT

Sigle Trust No. 5 NW NE SW of Section 2 Twp. 10 South, Rge. 12 West Osborne County, Kansas

COMMITTE AL

May 12, 1997

1911 JUL -2 A II: 53

ORIGINAL

RUSSELL OIL, INC. P O Box 272

Russell, Kansas

Geological Report:

CONFIDENTIAL

Contractor:

Drilling Commenced:

Drilling Completed:

Casing Record:

Samples:

Drilling Time:

Drillstem Tests:

Electric Logs:

Elevations:

Formations:

Anhydrite
Topeka Lime
Heebner Shale
Toronto Lime
Lansing-Kansas City
C Zone Porosity
Base of Kansas City
Total Depth

Sigle Trust No. 5 NW NE SW Sec. 2, 10s, 12w Osborne County, Kansas

Shields Drilling Co., Inc.

May 3, 1997

May 10, 1997

8 5/8" surface casing set at 954' with 350 sx. 5 1/2" production casing set at 3467' with 125 sx.

Saved and examined from 2800' to 3470', RTD. Zones of interest are described in this report.

Recorded and plotted from 2800' to 3470', RTD. A copy of the plotted drilling time/lithology log is included with this report.

3 by Trilobite Testing LLC.

Radiation-Guard-Caliper by ELI.

Kelly Bushing: 1921'
Ground Level: 1916'
Measurements From: JUL 3 K. B.

E. LogOMF' Rotary Datums: Depths: Depths: E. Log: 944-976 944-976 + 977 2838 2836 - 915 3077 3074 -11533101 3098 -11773130 3129 -12083179 3178 -12573462 3458 -15373470 3469 -1548

Lithology; Zones of Interest (E. Log Depths) & Test Data:

Lansing-Kansas City:

3129-3138: LS-white, buff, dense with rare light oil stain, some fair sat-A zone uration, only slight crystalline and pin hole porosity with

faint odor, but no free oil. Tested by DST #1.

DRILLSTEM TEST No. 1: 3111 to 3142: Time Intervals: 30-60-30-60 with

weak blow decreasing 1st. open. No

blow 2nd. open period.

15' very slight oil cut mud. 5% oil Recovery:

95% mud

IFP: 44-44 537 IBHP: 44-44 FFP: FBHP: 514

3158-3170: DOL-white, dense to crystalline, porous with very rare stain. Some white, fossiliferrous lime with very rare stain. Slight B zone

porosity. Abundant white vitreous chert. Faint odor but no

free oil. Tested by DST #2.

DRILLSTEM TEST No. 2: 3140 to 3170: Time Intervals: 30-60-60 with

weak blow increasing slightly thru-out.

55' of slight watery mud, with specks Recovery:

of oil on top. 10% water

90% mud

55-66 IFP: TBHP: 851 FFP: 77-88 FBHP: 796

3178-3184: LS-white, very fine-fine-medium oolicastic and oolitic with good Upper C Zn. porosity and some barren prosity. Good oil stain-saturation, good odor and good show of free gassy oil. Tested by DST #3.

DRILLSTEM TEST No. 3: 3173 to 3185: Time Intervals: 30-60-60 with strong

blow thru-out test. Off bottom of bucket

in 9 minutes.

120' of γ gas Recovery:

65' of clean gassy oil 540' of gassy salt water

IFP: 44-121 IBHP: 872 FFP: 154-285 FBHP: 862

Lithology, cont...

3186-3200: LS-white, colicastic-colitic with less stain and saturation than Lower C Zn. upper C zone. Separated by 2 ft. hard streak. Good porosity with barren porosity. Some white, crystalline dolomite with cil stain. Still show of free gassy cil and good odor. More abundant barren porosity in lower part. Would be water bearing. Not tested.

Remarks & Recommendations:

The following table compares the Sigle Trust #5 with the other Sigle Trust producing wells:

| | Sigle Trust | Sigle Trust | Sigle Trust | Sigle Trust |
|-----------------|-------------|-------------|-------------|-------------|
| | # 5 | # 3 | # 2 | # 1 |
| Anhydrite | + 977 | + 969 | + 971 | + 968 |
| Topeka | - 915 | - 917 | - 921 | - 922 |
| Heebner | -1153 | -1155 | -1157 | -1158 |
| Lansing | -1208 | -1211 | -1211 | -1213 |
| C Zone Porosity | -1257 | -1258 | -1264 | -1261 |

You will note from the foregoing table that the Sigle Trust #5 ran a few feet higher, structurally, on all horizons when compared to the other producing wells on the lease.

During the drilling of the well, shows of oil were noted in the A, B and C zones of the LKC. Drillstem tests were taken covering each of these zones but only the C zone recovered commercial oil, although very high water cut. The drillstems covering the A and B zones indicated non-production from these zones.

Production casing was set for completion in the upper C zone. I recommend that the zone be perforated from 3178-81.

Respectfully submitted:

Francis C. Whisler

TRILOBITE TESTING L.L.C.

Test Ticket

CONFIDENTIAL

| | | The state of the s |
|--|---------------------|--|
| | Test No. | _Date |
| Company Kussell Oil COMPCAY | Zone Tested | · · · · · · · · · · · · · · · · · · · |
| Address 150x 272 18 35011 15 | • | ation 1921 KB 1916 GL |
| Co. Rep / Geo. Francis Whisher Cont. St | yeld + | Est. Ft. of PayPor% |
| Location: Sec. 1 Twp. 100 Rge. | 12w co. Oxl | State 1 |
| No. of CopiesDistribution Sheet (Y, N) | Furnkey (Y, N) | _Evaluation (Y, N) |
| Interval Tested 3111 - 31412 | | Unseated Str Wt./Lbs. 38 نامانا |
| Anchor Length | | Wt. Pulled Loose/Lbs.4/5 060 |
| Top Packer Depth 3106 | Tool Weight | and the second s |
| Bottom Packer Depth 311\ | | Rubber Size = 6 3/4" |
| Total Depth 3/1/2 | Wt. Pipe Run | Drill Collar Run |
| Mud Wt. 4.0 LCM Vis. 52 WL 7.6 | Drill Pipe Size | Ft. Run: 1/68 |
| Blow Description weak in blow decrease | | 3.5 T N. W 174 M. W 174 M. S. |
| | | |
| FF no blow | | |
| | | |
| Recovery — Total Feet GIP | Ft. in DC | Ft. in DP |
| Rec. 15 Feet Of Very Slight Oil Cut | Mud %.gas 5 %. | oil %water TS %mud |
| Rec. Feet Of NOC | ‰gas % | oil %water %inud |
| RecFeet Of | %.gas %. | oil %-water (%-rjud) |
| | %.gas %. | oil %-water & Arnui |
| Rec. Feet Of CONTRACT | %.gas %. | |
| BHT °F Gravity °API D@ | °F Correct | cted Gravity |
| RW °F Chlorides | | desppm System |
| (A) Initial Hydrostatic MudPSI Reco | | T-Started 0530 |
| (B) First Initial Flow Pressure PSI | (depth) | |
| | order No. 1108*1 | T-Pülled <u>#0\$ 7</u> |
| (D) Initial Shut-in Pressure PSI | (depth) <u>3137</u> | T-Out |
| | order No. | |
| (F) Second Final Flow Pressure PSI | (depth) | |
| (G) Final Shut-in Pressure 511 parts lock PSI Initial | 7 | Test |
| | Shut-in 60 | Jars |
| | Flow <u>30</u> | Safety Joint |
| OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS | Shut-in 60 | Straddle |
| MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNIAL THE RESULTS OF ANY TEST TOOLS LOST OR | 50.5 stans | Circ. Sub |
| OR OPINION CONCERNING. THE RESULTS OF ANY TEST TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE." | | Sampler |
| | EL EACED | Extra Packer |
| Approved By This RI | ELEASED | Elect. Rec. |
| | T 1 1998 | Other |
| Our Representative Cul Simpson U | | TOTAL PRICE \$ |

TRILOBITE TESTING L.L.C. 15-141-20335 O.O. Box 362 • Hays, Kansas 676

CONFIDENTIAL Test Ticket



| 1197 | The state of the s |
|---|--|
| Well Name & No. | Test NoDate |
| Company Kussell Oil Company | Zone Tested |
| Address Box 277 - Russal Kr | ()(b) Elevation 921 KB 15 (GL) |
| Co. Rep/Geo. Francis Whiser Cont. Sh. | |
| Location: SecTwpTwpRge | 12w Co. Oskova State K |
| No. of CopiesDistribution Sheet (Y, N) | Furnkey (Y, N)Evaluation (Y, N) |
| Interval Tested 3/40-3/70 | Initial Str Wt./Lbs. 40, 600 Unseated Str Wt./Lbs. 40,00 |
| Anchor Length | Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 20,000 |
| Top Packer Depth 3/35 | Tool Weight 1700 |
| Bottom Packer Depth 3140 | Hole Size — 7 7/8" Rubber Size — 6 3/4" |
| Total Depth 3170 | Wt. Pipe Run Drill Collar Run |
| Mud Wt. 9,0 LCM Vis. 48 WL 8,8 | Drill Pipe Size 4'2 ft Ft. Run 3146 |
| Blow Description Wa" blow build in to 18 | |
| | |
| Fr him blow building to 2" | 1 then decreased by 2" = 0 |
| | C C C C C C C C C C C C C C C C C C C |
| Recovery — Total Feet 55 GIP 13 | _ Ft. in DC Ft. in DP |
| Rec: S Feet Of S Loter Nov | %-gas %-oil / 0 %-water 70%-mudif |
| Rec. Feet Of World Special | S A DO CAN AND AND AND AND AND AND AND AND AND A |
| Rec Feet Of | %-gas %-oil %-water %-inud |
| Rec. Feet Of JUL 3 | %.gas %.oil %.water %-mud? |
| Rec. Feet Of COM API D@ | -1 \\ %-gas %-oil %-water %-mud |
| | The adversarial to the second |
| RW °F Chlorides | ppm Recovery Chloridesppm System |
| (A) Initial Hydrostatic Mud 595 PSI Reco | order No. 24174 T-Started 18-24 |
| | (depth) 3/41 T-Open 7/4 Project No. 1/08 ⁴ / T-Pulled 22.44 |
| (D) Initial Shut-in Pressure \$5 PSI | |
| | (depth) T-OutCOO |
| (F) Second Final Flow Pressure PSI | (depth) |
| (G) Final Shut-in Pressure 296 PSI Initial | |
| (H) Final Hydrostatic Mud 1565 PSI Initial | |
| Final | A CONTRACTOR OF THE PARTY OF TH |
| TRILOBITE TESTING LLC. SHALL NOT BE LIABLE FOR DAVAGE OF ANY KIND | Shut-in Straddle |
| OF THE PROPERTY OR PERSONNEL OF THE ONE FOR MINION A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED THE SECTLY OR INDIRECTLY. THROUGH THE USE OF THE FOURTH AND THE TEST OF THE TEST | Circ. Sub |
| DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST RY THE PARTY FOR | S1 ste, // Sampler |
| WHOM THE TEST IS MADE. | Extra Packer |
| Approved By I WM REL | EASED Elect. Rec. |
| | Other |
| Our Representative CV SWD540 OCI | 1_1998TOTAL PRICE \$ |

TRILOBITE TESTING L.L.C. 15-141-20335-00-00

CONFIDENTIAL Test Ticket

| | 7 | 1 3 . V + 2 %. |
|--|---|--|
| | Test No | Date <u> </u> |
| Company K "SEELL OIL (UM DEN) | Zone Tested | |
| Address | | ation 1921 KB 1916 GL |
| Co. Rep / Geo. Frence (N) Cont | Shirley HI | Est. Ft. of PayPor% |
| Location: SecTwpRge | .12 w co. 05b | |
| No. of CopiesDistribution Sheet (Y, N) | Turnkey (Y, N) | _Evaluation (Y, N) |
| Interval Tested 3173 ~ 3155 | Initial Str Wt./Lbs. 40,0 | ம் Unseated Str Wt./Lbs. பிர்ம் |
| Anchor Length | Wt. Set Lbs. 70,000 | Wt. Pulled Loose/Lbs. புப்பம் |
| Top Packer Depth | Tool Weight | |
| Bottom Packer Depth 3173 | Hole Size 7 7/8" | Rubber Size — 6 3/4" |
| Total Depth | | Drill Collar Run |
| Mud Wt | 1 11 | The Run |
| Blow Description Strong blow building | to bottom of | bulat 9 |
| Minutes Ist surface blow | | |
| FF- '2" blow buildingle b | attum of build in | PNINCE |
| 7.15. (07 | | |
| Recovery — Total Feet | | |
| RecFeet Of | | oil %.water %.mud |
| Rec. 540 Feet Of 9938 Salt will | %.gas %. | oil %.water %.mud |
| RecFeet Of | ‰gas ‰ | The second secon |
| RecFeet Of | %gas % | The second second |
| Rec. Feet Of CONTROL OF GRAVITY | % % gas % % | Section 1997 and the section of the |
| The state of the s | - Conec | ted Gravity•AP |
| (A) Initial Hydrocatatio Mud | | METALOGRAPH AND THE SEA SEA |
| (A) Initial Hydrostatic Mud | (depth) 3 175 | |
| | ecorder No. 1/084 | T-Open 2502 |
| (D) Initial Shut-in Pressure 872 PSI | (depth) 3/80 | T-Pulled |
| | ecorder No. | T-Out /3.58 |
| | | |
| (F) Second Final Flow Pressure PSI | (depth) | |
| 一种种类似。 | (depth) | Test |
| (G) Final Shut-in Pressure 862 PSI Ini | tial Opening 30 | Test |
| (G) Final Shut-in Pressure 862 PSI Ini (H) Final Hydrostatic Mud 1517 PSI Ini | tial Opening 30 | Jars |
| (G) Final Shut-in Pressure 862 PSI Ini (H) Final Hydrostatic Mud 1515 PSI Ini Fir | tial Opening 30 | JarsSafety Joint |
| (G) Final Shut-in Pressure 862 PSI Ini (H) Final Hydrostatic Mud 1519 PSI Ini Fir TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR MHOMATEST IS ADDRESS OF FOR ANY LOSS SUFFERED OR SUSTAINED TO BE SUSTAIN | tial Opening 30 tial Shut-in 00 | Jars |
| (G) Final Shut-in Pressure 862 PSI Ini (H) Final Hydrostatic Mud 1515 PSI Ini Fin TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR | tial Opening 30 tial Shut-in 00 | JarsSafety JointStraddle |
| (G) Final Shut-in Pressure (H) Final Hydrostatic Mud (Final Hydrostatic Mud (H) Final Hydrostatic Mud (Final Hydrostatic Mud (Final Hydrostatic Mud (H) Final Hydrostatic Mud (Final Hydrostatic Mud (Final Hydrostatic Mud (H) Final Hydrostatic Mud (Final Hydrostatic Mud (H) Final Hydrostatic Mud (Final Hydrostatic Mud (H) Final Hydrostatic Mud (H) Final Hydrostatic Mud (Final Hydrostatic Mud (H) Final Hydrost | tial Opening 30 tial Shut-in 70 nal Flow 70 nal Shut-in 70 | JarsSafety JointStraddleCirc. Sub |
| (G) Final Shut-in Pressure (H) Final Hydrostatic Mud (H) Final Hydrostati | tial Opening 30 tial Shut-in 00 | Jars Safety Joint Straddle Circ. Sub Sampler |
| (G) Final Shut-in Pressure (H) Final Hydrostatic Mud (Final Hydrostatic Mud (Final Hydrostatic Mud (Final Hydrostatic Mud (Final Shut-in Pressure (Final Shut-in Pressure (H) Final Hydrostatic Mud (Final Hydrostatic Mu | tial Opening 30 tial Shut-in 20 nal Flow 20 nal Shut-in 20 RELEASED | Jars Safety Joint Straddle Circ. Sub Sampler Extra Packer |