

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

Operator: License # 7893

Name: A.C. Widener Farms, Inc.

Address 1689 NE 80th

City/State/Zip Hudson, Kansas 67545

Purchaser: _____

Operator Contact Person: Bernice Widener

Phone (316) 458-3331

Contractor: Name: L. D. Drilling, Inc.

License: 6039

Wellsite Geologist: Todd Morgenstern

Designate Type of Completion

- New Well Re-Entry Workover
- Oil SWD SLOW Test Abd.
- Gas ENHR SIGW
- Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

11-02-00 11-09-00 11-16-00

Spud Date 11-02-00 Date Reached TD 11-09-00 Completion Date 11-16-00

API NO. 15- 185-23108-0000

County Stafford

NE NE NW Sec. 26 Twp. 21 Rge. 12 X E W

330 Feet from S (circle one) Line of Section

2310 Feet from E (circle one) Line of Section

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

Lease Name WIDENER Well # 4

Field Name North Max

Producing Formation Arbuckle

Elevation: Ground 1828' KB 1833

Total Depth 3621' PBTB _____

Amount of Surface Pipe Set and Cemented at 342 Feet

Multiple Stage Cementing Collar Used? Yes No

_____, show depth set _____ Feet

Alternate II completion, cement circulated from _____

_____, feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT. 2 99 6/21/02
(Data must be collected from the Reserve etc)

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 Rng. _____ E/W

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 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 Bernice P. Widener Sec. Treas.

Title Sec. Treas. Date 12-8-2000

Subscribed and sworn to before me this 8th day of December, 19 2000.

Notary Public Bessie M. DeWerff

Date Commission Expires 5-20-01

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Geologist Report Received

✓ KCC SUD/Rep NGPA

KGS Plug Other (Specify)

NOTARY PUBLIC - State of Kansas
BESSIE M. DeWERFF
My Appt. Exp. 5-20-01

X

Operator Name A.C. Widener Farms, Inc. Lease Name Widener Well # 4
 Sec. 26 Twp. 21 Rge. 12 East West
 County Stafford

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 level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

| | | | |
|---|---|--|---------------------------------|
| Drill Stem Tests Taken (Attach Additional Sheets.) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log Formation (Top), Depth and Datums | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | SEE ATTACHMENT | |
| Electric Log Run (Submit Copy.) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| List All E.Logs Run: | None | | |

| 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# | 342' | 60/40 poz | 240 | 2% Gel, 3%cc |
| production | 7 7/8" | 4 1/2" | | 3601 | 50/50 poz | 150 | 18% salt 2% Gel |

| 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 |
|----------------|--|--|-----------|
| | 3601' - 3621' OPEN HOLE | 500 gal. 28% | open hole |

| | | | | |
|--|--|-----------------|------------------|---|
| TUBING RECORD | Size 2 3/8" | Set At 3617' | Packer At | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or Inj. 11-17-00 | 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 Bbls. 30 | Gas Mcf TSTM | Water Bbls. 0 | Gas-Oil Ratio Gravity |

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

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

Production Interval: 3601' - 3621'

Other (Specify) _____

ALLIED CEMENTING CO., INC.

Federal Tax I.D.# 48-0727860

5757 ORIGINAL

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

SERVICE POINT: Ht Bend

15.185.23108.0000

| | | | | | | | |
|-------------------------|----------------|-----------------|---|---------------------------|----------------------------|---------------------------|----------------------------|
| DATE <u>11-2-00</u> | SEC. <u>26</u> | TWP. <u>21</u> | RANGE <u>12</u> | CALLED OUT <u>5:30 PM</u> | ON LOCATION <u>7:30 PM</u> | JOB START <u>10:20 PM</u> | JOB FINISH <u>11:00 PM</u> |
| LEASE <u>Widener</u> | | WELL # <u>4</u> | LOCATION <u>Ellinwood, Sta Co Lw, 45,</u> | | COUNTY <u>Stafford</u> | STATE <u>Ks</u> | |
| OLD OR NEW (Circle one) | | | <u>1/2w, 5/5</u> | | | | |

CONTRACTOR L.A. Davis

TYPE OF JOB Surface

HOLE SIZE 12 1/8" T.D. 345'

CASING SIZE 8 5/8" DEPTH 342'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 21 bbls

OWNER Widener Farms, Inc.

CEMENT AMOUNT ORDERED 240 bbls 6 3/4 38cc, 290 bbls

EQUIPMENT

PUMP TRUCK CEMENTER Turn 0

181 HELPER Bob B

BULK TRUCK DRIVER Steve T

341

BULK TRUCK DRIVER _____

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____

TOTAL _____

REMARKS:

Ran 342' of 8 5/8" casing. Broke circulation.

Mixed 240 bbls 6 3/4 38cc, 290 bbls.

Released plug. Displaced with fresh H₂O.

Cement did circulate

Thanks

SERVICE

DEPTH OF JOB 342'

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 1-8 5/8 wooden @ _____

_____ @ _____

TOTAL _____

CHARGE TO: L.A. Davis

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature]

[Signature]
PRINTED 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.

ALLIED CEMENTING CO., INC.

4125

Federal Tax I.D.# 48-0727860

ORIGINAL

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

SERVICE POINT:

Ht Bend

| | | | | | | | |
|-------------------------|----------------|-----------------|---------------------------|------------|---------------------------|-------------------------|--------------------------|
| DATE <i>11-9-00</i> | SEC. <i>26</i> | TWP. <i>21</i> | RANGE <i>12</i> | CALLED OUT | ON LOCATION <i>4:45pm</i> | JOB START <i>4:45pm</i> | JOB FINISH <i>6:15pm</i> |
| LEASE <i>Widener</i> | | WELL # <i>4</i> | LOCATION <i>Ellemwood</i> | | COUNTY <i>Stafford</i> | STATE <i>KS</i> | |
| OLD OR NEW (Circle one) | | | <i>Stop in 42 hours</i> | | | | |

CONTRACTOR *L.D. Davis*
 TYPE OF JOB *Production string*
 HOLE SIZE *7 7/8* T.D. *3621*
 CASING SIZE *4 1/2* DEPTH *3601*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX *1500* MINIMUM
 MEAS. LINE SHOE JOINT *16*
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT *59 1/2*

OWNER
 CEMENT
 AMOUNT ORDERED *150 ASC*
 COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 @
 @
 @
 @
 @
 HANDLING @
 MILEAGE
 TOTAL

EQUIPMENT

PUMP TRUCK CEMENTER *L. Davis*
 # *120* HELPER *10*
 BULK TRUCK
 # *341* DRIVER *Troy*
 BULK TRUCK
 # DRIVER

REMARKS:

SERVICE

*Open Packer shoe cement R.H.
 cement 4 1/2 csg. Release Plug
 Disg 59 1/2 BBL. Release Plug
 Held*

DEPTH OF JOB *3601*
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE @
 MILEAGE @
 PLUG @
 @
 @

Thanks

TOTAL

CHARGE TO: *A.C. Widener Farms Inc.*

STREET
 CITY STATE ZIP

FLOAT EQUIPMENT

(Med. Lodge)
1-4 1/2 packer shoe @
1-4 1/2 latch plug @
3-4 1/2 centralizers @
 @
 @

TOTAL

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX
 TOTAL CHARGE
 DISCOUNT IF PAID IN 30 DAYS

SIGNATURE *L.D. Davis*

L.D. DAVIS
 PRINTED 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.

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—**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.

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(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 willful 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.

ORIGINAL

DAILY DRILLING REPORT

OPERATOR: A.C. WIDENER FARMS, INC.

LEASE: WIDENER #4
NE NE NW Sec.
Stafford County, Ks.

WELLSITE GEOLOGIST: TODD MORGENSTERN

ELEVATION: 1828' GR 1833' KB

CONTRACTOR: L. D. DRILLING, INC.

PTD: 3600'

SPUD: 4:15 P.M Nov. 2, 2000

SURFACE: Ran 8 Jts. 24# 8 5/8" Surface Csg. Set @ 342' W/240 sx. 60/40 Pozmix,
2% gel, 3% cc Did Circulate Plug down 11:00 P.M. 11-02-00 Allied Cementing

11-03-00 342' Bust plug @ 7:00 A.M.
11-04-00 1615' Drilling
11-05-00 2520' " Mud up @ 2600' Call Geo. @ 2800
11-06-00 3205' "
11-07-00 3345' CTCH
11-08-00 3611' Circ. for DST #4
11-09-00 3621' RTD WOO

Set 4 1/2" production csg. @ 3601' W/150 sx.
50/50 pozmix, 18% salt, 2% Gel
Allied Cementing - Plug down 6:15 P.M. 11-09-00

DST #1 3300-3341 MIS-RUN

TIMES:

BLOW: 1st Open
2nd open

RECOVERY:

IFP: FFP: ISIP: FSIP:

DST #2 3280-3345 F Zone

TIMES: 30-30-30-30

BLOW: 1st open weak blt. to 1/4"
2nd open weak sb died in 6 min

RECOVERY: 15' vsocm

IFP: 43-43 FFP: 43/43 ISIP: 6 FSIP: 43

DST #3 3475-3540 Viola

TIMES: 30-30-30-30

BLOW: 1st open weak blow
2nd open weak blow

RECOVERY: 10' vsocm, 4% oil, 96% mud

IFP: 85-117 FFP: 96-138 ISIP: 340 FSIP: 277

DST #4 3601-3611 Arbuckle

TIMES: 45-45-60-60

BLOW: 1st open: weak to 7 1/2"
2nd open: fair to 5 1/2"

Recovery: 320' gip, 40' hg&ocm
IFP: 64-53 ISIP: 192 FFP: 43-43
FSIP: 117

DST #5 3605-3621 Arbuckle

TIMES: 45-45-45-45

BLOW: 1st open: weak to fair blow
2nd open: fair to strong blow

RECOVERY: 250' gip, 130' vhm&gcoil
in 15 min.
IFP: 32 32 FFP: 43-43 ISIP: 863 FSIP: 842

SAMPLE TOPS:

Topeka 2815 (-982)
Heebner 3106 (-1273)
Toronto 3124 (-1291)
Douglas 3139 (-1306)
Brown Lime 3231 (-1398)
Lansing K/C3247 (-1414)
Base K/C 3479 (-1646)
Viola 3513 (-1680)
Simp.Sh 3555 (-1722)
Arbuckle 3597 (-1764)
RTD 3621 (-1788)

CONSERVATION DIVISION
Wichita, Kansas

DEC 12 2000

RECEIVED
STATE CORPORATION COMMISSION

Report Copy

ORIGINAL

Geological Report

for

A. C. Widener Farms, Inc.

**Widener No. 4
NE NE NW Section 26-21S-12W
Stafford County, Kansas**

Todd E. Morgenstern
Petroleum Geologist
Sunflower Bank Building
P.O. Box 251
Ellinwood, Kansas 67526

RECEIVED
STATE CORPORATION COMMISSION

DEC 12 2000

CONSERVATION DIVISION
Wichita, Kansas

OPERATOR: A. C. Widener Farms, Inc.

WELL: Widener No. 4
API # 15-185-23,108 0000

LOCATION: NE-NE-NW
330' from the North Line
2310' from the West Line
Section 26-21S-12W
Stafford County, Kansas

FIELD: North Max

CONTRACTOR: LD Drilling Co., Rig 1

DRILLING COMMENCED: 11-02-2000

DRILLING COMPLETED: 11-09-2000

DRILLING TIME: One (1) foot drilling time was recorded
from 2700' to 3621' RTD.

SAMPLES: Samples were saved and examined from 2800'
to 3621' RTD.

ELEVATIONS: 1828' Ground Level 1833' Kelly Bushing

MEASUREMENTS: All depths are measured from 1833' K.B.

CASING RECORD: 8 5/8" Surface Casing set @ 342' with 240 sxs. 60/40 poz
4 1/2" Production Casing set @ 3600' with

FORMATION TESTING: One (1) test was run by Diamond Testing Co.
Four (4) tests were run by Trilobite Testing L.L.C.

MUD: Dombar Mud & Chemical Company (Chemical Mud)

OPEN HOLE LOGS: No Open Hole Logs were run.

PRODUCTION: Oil (Arbuckle)

FORMATION TOPS:

| FORMATION | SAMPLE | DATUM |
|--------------------|----------------|--------|
| ANHYDRITE | Unable to call | N/A |
| BASE ANHYDRITE | Unable to call | N/A |
| TOPEKA | 2815' | - 982' |
| HEEBNER SHALE | 3106' | -1273' |
| TORONTO | 3124' | -1291' |
| DOUGLAS | 3139' | -1306' |
| BROWN LIME | 3231' | -1398' |
| LANSING | 3247' | -1414' |
| BASE KANSAS CITY | 3479' | -1646' |
| VIOLA | 3513' | -1680' |
| SIMPSON SHALE | 3555' | -1715' |
| ARBUCKLE | 3597' | -1764' |
| ROTARY TOTAL DEPTH | 3621' | -1780' |

SAMPLE DESCRIPTIONS AND TEST DATA:

TOPEKA: No shows of oil were noted throughout the Topeka.

TORONTO:
3124-3138 Limestone, white and tan, very finely crystalline, slightly fossiliferous, chalky in part, no shows of oil were noted.

LANSING:
3247-3256 Limestone, white and gray, finely crystalline, slightly fossiliferous, chalky, no shows of oil were noted.

3274-3281 Limestone, white and tan, very finely crystalline, slightly fossiliferous, chalky, no shows of oil were noted.

3291-3297 Limestone, tan and white, dense to finely crystalline, fossiliferous in part, slightly chalky, with poor visible intercrystalline porosity, questionable light odor, no shows of oil were noted.

3305-3315 Limestone, white, very finely crystalline, slightly fossiliferous, chalky, no shows of oil were noted.

3326-3330 Limestone, white and gray, finely crystalline, fossiliferous and oolitic, with fair visible interfossiliferous porosity, chalky, with scattered spotted staining, very slight show of free oil on break, light odor. (Covered by D.S.T. No. 1 & 2)

3336-3344 Limestone, tan and white, very finely crystalline, fossiliferous and slightly oolitic, chalky, no shows of oil were noted.

FORMATION TEST NO. 1

Lansing-K.C. "F"

Tested from 3300'-3345'

MISRUN

| | | | |
|-----------------------|---------|-----------------|-------|
| <i>Packer Failure</i> | 30 min. | I.H.P. | 1654# |
| | 30 min. | I.F.P. | N/A |
| | 30 min. | <u>I.S.I.P.</u> | N/A |
| | 30 min. | F.F.P. | N/A |
| | 30 min. | <u>F.S.I.P.</u> | N/A |
| | | F.H.P. | 1630# |

RECOVERY: N/A

TEMPERATURE: N/A

CHLORIDES: n/a ppm (Recovery) 3,200 ppm (System)

FORMATION TEST NO. 2

Lansing-K.C. "F"

Tested from 3280'-3345'

| | | | |
|--------------------------|---------|-----------------|----------|
| <i>Weak Blow</i> | 30 min. | I.H.P. | 1776# |
| <i>No Blow-back</i> | 30 min. | I.F.P. | 43# -43# |
| <i>Weak Surface Blow</i> | 30 min. | <u>I.S.I.P.</u> | 64# |
| <i>No Blow-back</i> | 30 min. | F.F.P. | 43# -43# |
| | 30 min. | <u>F.S.I.P.</u> | 43# |
| | | F.H.P. | 1745# |

RECOVERY: 15' Very Slightly Oil Cut Mud (2% Oil, 98% Mud)

TEMPERATURE: 115*

CHLORIDES: n/a ppm (Recovery) 3,200 ppm (System)

3382-3388 Limestone, tan and white, finely crystalline, oolitic and fossiliferous, with fair to good interoolitic porosity, oolitic in part, very chalky, with trace of scattered staining, very slight show of oil on break, questionable light odor.

3421-3425 Limestone, white and tan, oolitic, with trace of interoolitic porosity, scattered spotted staining, chalky in part, with light odor, very slight show of oil on break.

3438-3445 Limestone, white and tan, very finely crystalline, slightly fossiliferous, oolitic in part, with trace of dead staining, chalky, no shows of oil were noted.

3456-3461 Limestone, white and gray, finely crystalline, slightly fossiliferous, oolitic in part, with trace of scattered dead staining, slightly chalky, no shows of oil were noted.

VIOLA:

3513-3540 Chert, white, tan and bone, sharp, slightly tripolitic, with good visible pinpoint and slightly vugular porosity, good edge staining and complete saturation, fair show of free gassy oil, questionable light odor. (Covered by D.S.T. No.3)

| <u>FORMATION TEST NO. 3</u> | | | |
|-----------------------------|---|-----------------|-------------|
| Viola | | | |
| Tested from 3475'-3540' | | | |
| <i>Weak Blow</i> | 30 min. | I.H.P. | 1850# |
| <i>No Blow-back</i> | 30 min. | I.F.P. | 85# -117# |
| <i>Weak Surface Blow</i> | 30 min. | <u>I.S.I.P.</u> | <u>340#</u> |
| <i>No Blow-back</i> | 30 min. | F.F.P. | 96# -138# |
| | | <u>F.S.I.P.</u> | <u>277#</u> |
| | | F.H.P. | 1850# |
| RECOVERY: | 10' Very Slightly Oil Cut Mud (4% Oil, 96% Mud) | | |
| TEMPERATURE: | 101* | | |
| CHLORIDES: | n/a ppm (Recovery) 3,200 ppm (System) | | |

ARBUCKLE:

3597-3611 Dolomite, tan, gray and light brown, dense to finely crystalline, slightly sucrosic, with fair intercrystalline porosity, good staining and saturation, strong odor, fair show of free oil. (Covered by D.S.T. No. 4)

| <u>FORMATION TEST NO. 4</u> | | | |
|-----------------------------|---|-----------------|------------|
| Arbuckle | | | |
| Tested from 3601' -3611' | | | |
| <i>Weak Blow</i> | 45 min. | I.H.P. | 1783# |
| <i>No Blow-back</i> | 45 min. | I.F.P. | 11# -16# |
| <i>Weak Surface Blow</i> | 45 min. | <u>I.S.I.P.</u> | <u>44#</u> |
| <i>No Blow-back</i> | 45 min. | F.F.P. | 14# -18# |
| | | <u>F.S.I.P.</u> | <u>34#</u> |
| | | F.H.P. | 1666# |
| RECOVERY: | 320' Gas in Pipe 40' Heavy Gas and Mud Cut Oil | | |
| TEMPERATURE: | 129* (?) | | |
| CHLORIDES: | n/a ppm (Recovery) 5,600 ppm (System) | | |

3612-3621 Dolomite, tan, gray and light brown, fine to medium crystalline, with fair to good visible intercrystalline and pinpoint porosity, slightly vugular, with good staining and saturation, good show of free, gassy oil, strong odor.
(Covered by D.S.T. No. 5)

FORMATION TEST NO. 5

Arbuckle

Tested from 3605'-3621'

| | | | |
|----------------------------|---------|-----------------|-------------|
| <i>Weak to 5 1/2" Blow</i> | 45 min. | I.H.P. | 1871# |
| <i>No Blow-back</i> | 45 min. | I.F.P. | 32# - 32# |
| <i>Good Blow in 15"</i> | 45 min. | <u>I.S.I.P.</u> | <u>863#</u> |
| <i>Weak surface blow</i> | 45 min. | F.F.P. | 43# - 64# |
| | | <u>E.S.I.P.</u> | <u>842#</u> |
| | | F.H.P. | 1882# |

RECOVERY: 250' Gas in Pipe
130' Very Heavy Mud Cut Gassy Oil

TEMPERATURE: 138* (?)

CHLORIDES: N/A ppm (Recovery) 5,600 ppm (System)

DRILLING RECORD:

| <u>Date</u> | <u>Daily Drilling Record</u> | |
|-------------|------------------------------|--|
| 11-02-00 | 7:00 AM | Spud well. Set 8 5/8" Surface Casing. |
| 11-03-00 | 7:00 AM | Drilling depth at 345'. |
| 11-04-00 | 7:00 AM | Drilling depth at 1655'. |
| 11-05-00 | 7:00 AM | Drilling depth at 2520'. Geologist on location, 2800'. |
| 11-06-00 | 7:00 AM | Drilling depth at 3205'. DST # 1 & DST # 2 |
| 11-07-00 | 7:00 AM | Drilling depth at 3345', DST # 3 |
| 11-08-00 | 7:00 AM | Drilling depth at 3611', DST # 4, |
| 11-09-00 | 7:00 AM | Depth at 3621', Ran DST # 5, Ran 5 1/2" Production Casing. |

STRUCTURAL COMPARISON:

| | A. C. Widener Farms No. 4 Widener NE NE NW Sec. 26-21S-12W Oil | A. C. Widener Farms No.3 Widener NW NE NW Sec. 26-21S-12W Oil | L.D. Drilling, Inc. No. 1 Austin S/2 SE NW Sec. 23-21S-12W Oil |
|------------------|---|--|---|
| ANHYDRITE | n/a | +1233' | +1236' |
| BASE ANHYDRITE | n/a | +1209 | n/a |
| TOPEKA | -982' | N/A | n/a' |
| HEEBNER SHALE | -1273' | -1268' | -1265' |
| BROWN LIME | -1398' | -1398' | -1393' |
| LANSING | -1414' | -1416' | -1410' |
| BASE KANSAS CITY | -1646' | -1644' | -1642' |
| VIOLA | -1680' | -1677' | -1675' |
| SIMPSON SHALE | -1716' | -1688' | -1717' |
| ARBUCKLE | -1764' | -1740' | -1767' |

SUMMARY:

The No. 1 Keith was under geological supervision from 2800' to 3621' RTD. With the positive results of drill stem test No. 5, it was recommended that 4 1/2" production casing be run and completed through the open hole.

Respectfully submitted,

Todd E. Morgenstern