

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

**ORIGINAL**

Operator: License # 5135

Name: John O. Farmer, Inc.

Address P. O. Box 352

City/State/Zip Russell, KS 67665

Purchaser: \_\_\_\_\_

Operator Contact Person: Martin Dubois

Phone ( 913 ) 483-3144

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: John Farmer IV

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.

Gas  ENHR  SIGW

Dry  Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: \_\_\_\_\_

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

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

Deepening  Re-perf.  Conv. to Inj/SWD

Plug Back  PBD

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Inj?)  Docket No. \_\_\_\_\_

10/2/91 10/10/91  
Spud Date Date Reached TD Completion Date

API NO. 15- 101-21,602 -00-00

County Lane

NE - NE - SE - Sec. 33 Twp. 16S Rge. 28  <sup>E</sup>

2310  Feet from (S)N (circle one) Line of Section

330  Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, (SE) NW or SW (circle one) Well drilled in  
NE/4

Lease Name Terwilliger  Well # 1

Field Name (wildcat)

Producing Formation \_\_\_\_\_

Elevation: Ground 2762' KB 2770'

Total Depth 4630' PBDT \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 223' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan A 17 II WPA  
(Data must be collected from the Reserve Pit)

Chloride content 5,000 ppm Fluid volume 1,800 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite:  
(not hauled)

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, 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 John O. Farmer III  
Title President Date 10-21-91

Subscribed and sworn to before me this 21st day of October, 19 91.

Notary Public Margaret A. Schulte  
Margaret A. Schulte

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

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
RECEIVED  
DISTRIBUTION  
STATE CORPORATION COMMISSION KGS  
SWD/Rep \_\_\_\_\_ NGPA \_\_\_\_\_  
Plug \_\_\_\_\_ Other \_\_\_\_\_ (Specify)



OCT 22 1991

Operator Name John O. Farmer, Inc. Lease Name Terwilliger Well # 1

Sec. 33 Twp. 16S Rge. 28  East County Lane

West

**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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" 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	Anhydrite	2165'	(+605)
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3969'	(-1199)
List All E.Logs Run:		Lansing	4004'	(-1234)
		Muncie Creek	4166'	(-1396)
		Stark Shale	4264'	(-1494)
		Base/LKC	4342'	(-1572)
		Marmaton	4366'	(-1596)
		Fort Scott	4511'	(-1741)
		Cherokee Limestone	4534'	(-1764)
		Cherokee Sand	4591'	(-1821)
		Mississippi	4621'	(-1851)
		R.T.D.	4630'	(-1860)

\* COPY OF 10-11-91 DRILLERS LOG ATTACHED.

**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"	20#	223'	60-40 Pozmix	140	3% C.C., 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

**TUBING RECORD** Size \_\_\_\_\_ Set At \_\_\_\_\_ Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  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 ACO-18.)

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

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



## 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.

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 913-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

2985

# ORIGINAL

Home Office P. O. Box 31

Russell, Kansas 67665

*NEW*

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
10-10-91	33	16	28	9:00 PM	12:00	7:30 AM	6:00 AM
Lease <i>Tennilliger</i>	Well No. <i>1</i>	Location <i>Shields 1/2 E 15 1/2 E</i>			County <i>Line</i>	State <i>Mo</i>	

Contractor <i>Emphoria Oil Operations</i>	Owner <i>John D. Farmer</i>
Type Job <i>Plug</i>	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 listed.
Hole Size <i>7 1/2</i>	T.D. <i>4630'</i>
Csg.	Depth
Tbg. Size	Depth
Drill Pipe <i>4 1/2 XH</i>	Depth <i>2200'</i>
Tool	Depth
Cement Left in Csg.	Shoe Joint
Press Max.	Minimum
Meas Line	Displace
Perf.	

Charge To <i>John D. Farmer</i>	
Street	
City	State
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X <i>W L Farmer</i>	
<b>CEMENT</b>	
Amount Ordered <i>205 BX 60/40 poz 670 gel 1/4" floccul p.s.</i>	
Consisting of	
Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
Sales Tax	
Handling	
Mileage	
Sub Total	
Total	
Floating Equipment	

### EQUIPMENT

<i>NEW</i>	No.	Cementer	
Pumptrk #158		Helper	
Pumptrk	No.	Cementer <i>J.D.</i>	
		Helper <i>Bob</i>	
<i>Y.B.</i>		Driver <i>MARK</i>	
Bulktrk #116			
Bulktrk		Driver	

### DEPTH of Job

Reference:	<i>Pump trk change</i>	
	<i>Mileage</i>	
	<i>1 8 1/2 dry hole plug.</i>	
	Sub Total	
	Tax	
	Total	

### Remarks:

*1st 50 BX - 2200'*  
*2nd 80 BX - 1350'*  
*3rd 40 BX - 250'*  
*4th 10 BX - 40' & solid bridge*  
*15 BX in cathole*  
*10 BX in mousehole.*

*Thank you.*

REC  
STATE CORPOR

00722 1991

CONSERVAT

By Allied Cementing Co. Inc.  
JACKSON DREILING  
*Jaydon & Reiling*

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ORIGINAL

15-101-21602-00-00

EMPHASIS OIL OPERATIONS

P. O. BOX 506

RUSSELL, KS 67665

DRILLERS LOG

OPERATOR: John O. Farmer, Inc.  
P. O. Box 352  
Russell, Kansas 67665

CONTRACTOR: Emphasis Oil Operations  
Box 506  
Russell, KS 67665

LEASE: Terwilliger WELL #1

LOCATION: NE NE SE  
Section 33-16S-28W  
Lane County, Kansas

ROTARY TOTAL DEPTH: 4630'

ELEVATION: 2770' K.B.

COMMENCED: 10/2/91

COMPLETED: 10/10/91

CASING: 8-5/8" @ 221' w/140 sks cement

STATUS: Dry Hole

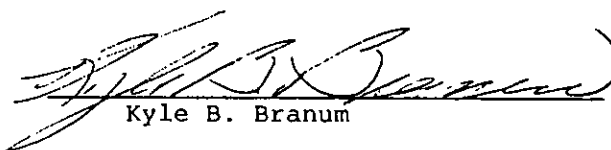
DEPTHS & FORMATIONS

(All measurements from K.B.)

Sand & Shale	69'	Shale & Limestone	3558'
Shale	2023'	Shale	3700'
Sand & Shale	2525'	Lansing-Kansas City	4025'
Shale	2850'	Marmaton	4395'
Shale & Lime	3302'	Ft. Scott	4485'
Shale	3428'	R.T.D.	4585'

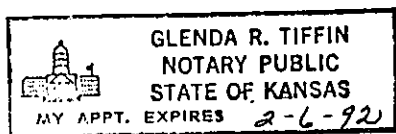
STATE OF KANSAS )  
                          ) ss  
COUNTY OF RUSSELL)

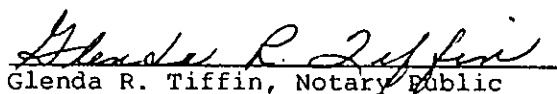
Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.

  
Kyle B. Branum

Subscribed and sworn to before me on October 11, 1991.

My commission expires: February 6, 1992.



  
Glenda R. Tiffin, Notary Public

RECEIVED  
STATE OF KANSAS COMMISSION

OCT 22 1991

Conservation Division  
Wichita, Kansas

15-101-21602-00-00

ORIGINAL

DATE 10/11/1991

OPERATOR: JOHN O. FARMER, INC. TERWILLIGER #1  
RUSSELL, KANSAS NE NE SE Sec. 33-16S-28W  
Lane County, Kansas

CONTRACTOR: Emphasis Oil Operations - Rig #10  
P. O. Box 506  
Russell, KS 67665  
Spud Date 10-2-91  
Set 221 ', 8 5/8 " casing, 140 sx. cement  
Completed 2:45 a.m. 10-3-91  
Plugged: 10-10-1991

CREW: Rig # 10  
Toolpusher Dude Finnesey  
Drillers Allen Brassfield  
Ned Shaver  
Dale Schmidt

ELEVATION: American Elevations, Inc.  
P. O. Box 56  
Hays, KS 67601  
Ground Level 2762'  
Kelly Bushing 2770'

All measurements shown are from Kelly Bushing.

SAMPLES: 10 foot intervals from 3600' to  
4630', and \_\_\_\_\_ foot intervals from  
\_\_\_\_\_ to \_\_\_\_\_ R.T.D. All samples  
were examined and described and sent to the Wichita  
Sample Bureau, Wichita, Kansas.

DRILLING TIME: 1 foot intervals from 3600' to 4630' R.T.D. RECEIVED  
STATE COMMISSION

OCT 22 1991

DIVISION



## FORMATION TOPS:

TERWILLIGER #1

NE NE SE Sec. 33-16S-28W

Lane County, Kansas

FORMATION:SAMPLE TOPS:

Anhydrite	2165 (+605)
Heebner	3969 (-1199)
Lansing	4004 (-1234)
Muncie Cr.	4166 (-1396)
Stark Sh.	4264 (-1494)
B/KC	4342 (-1572)
Marmaton	4366 (-1596)
Fort Scott	4511 (-1741)
Cherokee L.S.	4534 (-1764)
Cherokee Snd.	4591 (-1821)
Miss.	4621 (-1851)
RTD	4630 (-1860)

## SAMPLE DESCRIPTIONS:

Lansing G  
4150-4164  
Limestone, white to light tan, mostly very fine grained and very fine crystalline. Some medium rounded grained oolitic fossil frags, with fair moldic porosity. Trace of intergranular staining, no free oil, no odor.

Lansing I  
4210-4218  
Limestone, white to very light tan, very fine grained, dense, no porosity, cherty, very slight show dead staining, no free oil, no odor

4218-4229  
Limestone, light tan to cream color, fine grained, mostly very dense, 5 to 10% of sample containing medium grained oolites with fair to good moldic porosity, no shows, no odor.

Lansing J  
4240-4249  
Limestone, white to light tan, mostly fine grained and tight, no porosity, trace rounded fossiliferous oolite grains that are mostly tight. Very little (2% of sample) with fair to good moldic  $\emptyset$ , trace of staining, very slight show of free oil (1 piece in tray), no odor.

Marmaton  
4366-4458  
Limestone, white to opaque, very fine crystalline, very poor to no intercrystalline porosity, trace of chert, tight, 3 or 4 pcs. dolomite in tray, no shows, no odor.

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STATE CORPORATION COMMISSION

OCT 22 1991

Upper Pawnee Limestone, white color, fine grained, no to poor intergranular porosity, trace (3 to 4 pieces) of good staining, good show free oil in one piece with good moldic porosity, trace (3 to 4 pieces) unstained moldic porosity, no odor. (Overall, the show in this hole is much worse here than it was in the Mull hole, which test 126' of fluid and 3' of oil).

Fort Scott Limestone, white to dark brown, mostly fine grained, 4511-4526 some medium to coarse grained fossils (packstone), all have no  $\emptyset$ , no shows, no odor.

4526-4634 Limestone, white to light brown, fine grained, medium grained rounded (oolitic) fossil (packstone) grains, poor intergranular porosity, trace of stain (4-5 pieces), no show of free oil, no odor, trace of chert.

Cherokee Sand Sandstone, medium grained, subangular to sub-rounded, 4588-4596 moderately well sorted, clusters hard with poor porosity, light stain in 30% of sand clusters, 10% of sand clusters with good show free oil (friable). Rest of clusters lightly stained with no show of free oil. Poor odor.

TERWILLIGER #1  
NE NE SE Sec. 33-16S-28W  
Lane County, Kansas

## REMARKS &amp; RECOMMENDATIONS:

The Terwilliger #1 test hole, drilled in the NE NE SE Section 33, Township 16 South, Range 28 West in Lane County, Kansas, was plugged and abandoned due to poor or no shows in samples, a low structural position, and mostly tight reservoirs. This hole ran around 15' to 20' low to 2 dry show holes (Mull & Burnette) that we were keying off. The shows in the Terwilliger test hole were either absent or much poorer than the show holes, which were tested and results being non-commercial. Porosity was generally described as very poor to none, also much worse than that described in the two show holes.

It was recommended that the Terwilliger #1 be plugged and abandoned, based on a combination of the above results.

Respectfully Submitted,

RECEIVED  
STATE COMMISSION

OCT 22 1991

*John O. Farmer IV*  
John O. Farmer IV, Geologist