

ORIGINAL

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

API NO. 15- 033-20964 0000

County Comanche County, Kansas

C-S/2 - SE Sec. 13 Twp. 31S Rge. 18 XXIV

660 Feet from S/W (circle one) Line of Section

1320 Feet from E/W (circle one) Line of Section

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

Lease Name Booth Well # 1-13

Field Name Wilmore

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

Elevation: Ground 2060' KB 2073'

Total Depth 5675 PBDT 5100'

Amount of Surface Pipe Set and Cemented at 570.39 Feet

Multiple Stage Cementing Collar Used? Yes X No

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

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

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

Drilling Fluid Management Plan AH-L 10-9-98 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 70,000 ppm Fluid volume 560 bbls

Dewatering method used EVAPORATION & HAULED

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name KWB OIL & GAS

Lease Name HARMON SWD License No. 5993

Quarter 11 Sec. 33 Twp. 33 S Rng. 20 E/W

County COMANCHE Docket No. CD 98329

Operator: License # 4548

Name: ONEOK Resources Company

Address P.O. Box 871

City/State/Zip Tulsa, Oklahoma 74102-0871

Purchaser: KANSAS GAS SUPPLY

Operator Contact Person: Daryl Duvall

Phone (918) 588-7711

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Harold Trapp

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

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

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

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

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

06-11-98 06-21-98 9-29-98  
Spud Date Date Reached TD Completion Date

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 Daryl K. Duvall  
Title District Engineer Date 10/1/98  
Subscribed and sworn to before me this 1 day of October, 19 98.  
Notary Public Pam Bustamante  
Date Commission Expires 11/24/2001

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

Operator Name **ONEOK Resources Company**

Lease Name **Booth**

Well # **1-13**

Sec. 13 Twp. 31S Rge. 18  East

County **Comanche County, Kansas**

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  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

List All E.Logs Run:  
Dual Induction Laterlog  
Spectral Density Dual Spaced Neutron  
Cement Bond Log  
Geologist Report

<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample		
Name	Top	Datum
HEEBNER	4158	-2111
TORONTO	4174	-2127
LANSING	4342	-2295
BASE KC	4760	-2713
MARMATON	4816	-2769
PAWNEE	4870	-2823
FT. SCOTT	4898	-2851
MISSISSIPPI	4964	-2917
VIOLA	5416	-3369
SIMPSON	5602	-3555

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
<b>Conductor</b>		<b>20"</b>		<b>48'</b>			
<b>Surface</b>	<b>12-1/4"</b>	<b>8-5/8"</b>	<b>24#30'</b>	<b>570.39'</b>	<b>lite Class A</b>	<b>200</b>	<b>3%cc</b>
<b>Production</b>	<b>7-7/8"</b>	<b>5-1/2"</b>	<b>15.5#</b>	<b>5611'</b>	<b>EA-2</b>	<b>290</b>	<b>5%ca1seal</b>

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
4	4966-4976, 4982-4986	1500 gal 15% FE/NE ACID & 5000gal 15% FE/NE ACID foamed to 70 quality	

TUBING RECORD 2 3/8" Size 4.7# K-55 Set At 5128	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj. 9-22-98	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. (0)	Gas Mcf (94)	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.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval 4966-4986'

# ALLIED CEMENTING CO., INC. 2173

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

ORIGINAL SERVICE POINT:  
15-033-20964-0000 med. ledge, ks.

DATE 6-11-98	SEC. 13	TWP. 31s	RANGE 18w	CALLED OUT 7:00 P.M.	ON LOCATION 10:00 P.M.	JOB START 3:45 A.M.	JOB FINISH 4:45 A.M.
LEASE 1/10	WELL # 5-13	LOCATION 1/2. Imore, 1/8n. 1/2w. 1/2n		COUNTY Comanche	STATE KS.		

OLD OR NEW (Circle one)

CONTRACTOR Duke Drp. #7  
TYPE OF JOB Surface Casg.  
HOLE SIZE 12 1/4 T.D. 573  
CASING SIZE 8 5/8 x 24 DEPTH 570  
TUBING SIZE DEPTH  
DRILL PIPE 4 1/2 x hole DEPTH 573  
TOOL DEPTH  
PRES. MAX 500 MINIMUM 250  
MEAS. LINE SHOE JOINT 32 26  
CEMENT LEFT IN CSG.  
PERFS.

OWNER Anrok CEMENT

AMOUNT ORDERED 200 SX ALL W/ 3% CACL<sub>2</sub>  
1/4" Flg. Seal: 100 SX CLASS A + 3% CACL<sub>2</sub>  
2% Gel

COMMON @  
POZMIX @  
GEL @  
CHLORIDE @  
HANDLING @  
MILEAGE @

### EQUIPMENT

PUMP TRUCK CEMENTER Arny D. Neiling  
# 343 HELPER Justin Hart  
BULK TRUCK  
# 257-251 DRIVER John Kelley  
BULK TRUCK  
# DRIVER

TOTAL

### REMARKS:

Pipe on Bottom - Break Circ  
mix + Pump 200 SX ALL W/ 3% CACL<sub>2</sub>  
1/4" Flg. Seal: 100 SX CLASS A + 3% CACL<sub>2</sub>  
2% Gel. Stop Pumps. Release Plug  
Dump + Displace Plug w/ 34 1/2 RBIS  
Fresh 1120 Pump Plug. Shift In  
Cement Circ. to Surface ✓

### SERVICE

DEPTH OF JOB 570  
PUMP TRUCK CHARGE  
EXTRA FOOTAGE @  
MILEAGE @  
PLUG 2 5/8 Rubber @

TOTAL

CHARGE TO: Duke Drp. Co.

STREET

CITY STATE ZIP

### FLOAT EQUIPMENT

1- Baffle Plate @  
1- Basket @  
4- Centerizers @

TOTAL

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

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.

SIGNATURE Kenneth McGuire KENNETH M'GUIRE KKM

## 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.

# CEMENTING LOG ORIGINAL

15-033-20964-0000

Date 6-11-98 District Med. Lodge Ticket No. 21731  
 Company Duke Drilling/Conrad Rig Co. T-119  
 Lease Pyle Well No. 5-13  
 County Comanche State OK  
 Location Wilmore, 181-1/2w-12n Field 13-3K-Rw

CEMENT DATA:  
 Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 8 5/8 Type \_\_\_\_\_ Weight 24 Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type CLASS-A-2112  
3% CMC-2A 1/4# Flo-Seal Excess 100%  
 Amt. 200 Skys Yield 1.97 ft<sup>3</sup>/sk Density 12.5 PPG

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

TAIL: Pump Time \_\_\_\_\_ hrs. Type CLASS-A  
3% CMC-2A + 2% Gel Excess \_\_\_\_\_  
 Amt. 100 Skys Yield 1.34 ft<sup>3</sup>/sk Density 15.2 PPG

Drill Pipe: Size 4 1/2 Weight 16.60 Collars X hole  
 Open Hole: Size 12 1/4 T.D. 523 ft. P.B. to \_\_\_\_\_ ft.

WATER: Lead \_\_\_\_\_ gals/sk Tail 6.5 gals/sk Total 67 Bbls.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70  
 Open Holes: Bbls/Lin. ft. 14.58 Lin. ft./Bbl. 6.8599  
 Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. 70.32  
 Annulus: Bbls/Lin. ft. 0.435 Lin. ft./Bbl. 16.3007  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Pump Trucks Used 343 Justin H.  
 Bulk Equip. 257 John K.

Floater Equipment: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Floater: Type Raffle Hater Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top Downer Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. Basket AH-1 10-9-98 U.C.  
 Disp. Fluid Type Fresh H<sub>2</sub>O Amt. 343 Bbls. Weight 8.41 PPG  
 Mud Type Chemical Weight 9.2 PPG

COMPANY REPRESENTATIVE Ken McBride

CEMENTER Larry Dreiling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
3:45						Pipe rod Bottom - Break Circ.
3:55	200					mix + Pump 200 sks. 1000 + 10% CMC-2
	250		70		6	1/4# Flo-Seal Per Sk
	250		24		5 1/2	100 sks CLASS-A + 3% CMC-2 + 2% Gel
	4766 - 4770					Cement In. - Release Plugs
4:15	300		15		4	Release Plugs - Fresh H <sub>2</sub> O Displace
	330		25		3	Slow Rate
	300		30		3	Slow Rate
	500		34 1/2		3	Bump Plug
4:30						Shut In
						Cement/Circ to surface

FINAL DISP. PRESS: \_\_\_\_\_ PSI BUMP PLUG TO \_\_\_\_\_ PSI BLEEDBACK \_\_\_\_\_ BBLs. THANK YOU