

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

API NO. 15-155-214150000

County Reno
NE - NW - NE Sec. 22 Twp. 23 S Rge. 08 X W

330 Feet from S (circle one) Line of Section
1650 Feet from E (circle one) Line of Section

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

Lease Name Dunn Well # 1-22

Field Name Charters Corner

Producing Formation Mississippi Chert

Elevation: Ground 1634 KB 1642

Total Depth 3800 PBDT 3800

Amount of Surface Pipe Set and Cemented at 282 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 DIA 97 9-11-97
(Data must be collected from the Reserve Pit)

Chloride content 7000 ppm Fluid volume 240 bbls

Dewatering method used hauling & evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name C & C Tank Service, Inc

Lease Name Roach License No. 30708

SW Quarter Sec. 14 Twp. 23 S Rng. 09 W

County Reno Docket No. 22208

Operator: License # 31700

Name: R & G Oil Co

Address 23571 190th

City/State/Zip Rockford, Iowa 50468

Purchaser: n/a

Operator Contact Person: Roger Burnett

Phone (515) 756-2424

Contractor: Name: Duke Drilling Co., Inc

License: 5929

Wellsite Geologist: Jeff Burk

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: KCC

Operator: JUL 9 A

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. _____

7/7/97 7/12/97 7/12/97
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 Charles Casey Bonta
Title Agent Date 7/13/97

Subscribed and sworn to before me this 18th day of July, 1997.
Notary Public Bruce G. Bumgarner
Date Commission Expires August 9, 1999

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)

RECEIVED
KANSAS CORPORATION COMMISSION

RELEASED

OCT 6 1998

BRUCE G. BUMGARNER
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES

FORM ACO-1 (7-91)

JUL 18 1997

SIDE TWO

Oil Co

Lease Name Dunn Well # 1-22

County Reno

Sec. 22 Twp. 23S Rge. 03

East

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, Dual Comp
Density

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Heebner Shale	2937	-1295
Lansing	3147	-1505
Stark Shale	3413	-1771
BKC	3512	-1870
Miss Unc.	3642	-2000
TD	3800	-2158

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	23	282	60/40 Pozmix	200	3%CC, 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 <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or inj. D&A Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil <u>N/A</u> Bbls.	Gas <u>N/A</u> Mcf	Water <u>N/A</u> 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)

RECORDED
INDEXED
APR 11 1950

CONFIDENTIAL

ORIGINAL

Mississippi Chert DST#1
3622'to 3665'
30-45-60-90

15-155-21415

1st open: GTS in 15 min
20-5.50mcfpd
30-5.32mcfpd

2nd open: GTS
20-33.2mcfpd
30-35.5mcfpd
40-24.5mcfpd
50-5.32mcfpd
60-5.32mcfpd

REC: 420' Total Fluid
180' ogc wtry mud (10%g,15%o,30%w,45%m)
240' sl ogc wtr (5%g,1%o,10%m,84%w)

IHP- 1816#
IFP- 150#to150#
ISIP- 728#
FFP- 200#to 230#
FSIP- 748#
FHP- 1786#
BHT- 112

Cl- 61000 ppm

Kul

JUL 14

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RELEASED

OCT 6 1998

FROM CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 18 1997

CONSERVATION DIVISION
WICHITA, KS

ALLIED CEMENTING CO., INC. 8275

Federal Tax I.D. _____

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

SERVICE POINT:

At Band

ORIGINAL

DATE <u>7-7-97</u>	SEC. <u>22</u>	TWP. <u>23</u>	RANGE <u>8</u>	CALLED OUT <u>2:00 PM</u>	ON LOCATION <u>3:00 PM</u>	JOB START <u>5:30 PM</u>	JOB FINISH <u>10:00 PM</u>
LEASE <u>Dunn</u>	WELL # <u>1-22</u>	LOCATION <u>14 3/4th Sth Rth, 1st, 1/2 W, 5/8</u>			COUNTY <u>Reno</u>	STATE <u>Ka</u>	

OLD OR NEW (Circle one)

CONTRACTOR Dale #2
TYPE OF JOB Surface
HOLE SIZE 12 1/4" T.D. 283'
CASING SIZE 8 5/8" DEPTH 282'
TUBING SIZE _____ DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT **RELEASED**
CEMENT LEFT IN CSG. 15'
PERFS. _____ OCT 6 1998
DISPLACEMENT 17 bbls,

OWNER ROG oil co.
CEMENT
AMOUNT ORDERED 200 bbls 60/40 370cc,
270 bbl.
COMMON _____ @ _____
POZMIX _____ @ _____
GEL _____ @ _____
CHLORIDE _____ @ _____

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RECEIVED
KANSAS CORPORATION COMMISSION
@ _____
@ _____
@ _____
@ JUL 18 1997
@ _____
CONSERVATION DIVISION
WICHITA, KS
TOTAL _____

PUMP TRUCK	CEMENTER <u>Tenn D</u>
# <u>120</u>	HELPER <u>Dwaine S</u>
BULK TRUCK	
# <u>342</u>	DRIVER <u>Kenny R.</u>
BULK TRUCK	
# _____	DRIVER _____

EQUIPMENT FROM CONFIDENTIAL
RECEIVED
KANSAS CORPORATION COMMISSION
@ _____
@ _____
@ JUL 18 1997
@ _____
CONSERVATION DIVISION
WICHITA, KS
TOTAL _____

REMARKS:

Ran 282' of 8 5/8" cas. Bore circulation.
Mixed 200 bbls 60/40 370cc, 270 bbl Pumped
plug with fresh water.
Cement did circulate.
Dale

JUL 9 4
CONFIDENTIAL SERVICE

DEPTH OF JOB 282'
PUMP TRUCK CHARGE _____
EXTRA FOOTAGE _____ @ _____
MILEAGE _____ @ _____
PLUG 1- 8 5/8" Woodew @ _____
@ _____
@ _____

CHARGE TO: Dale Daley
STREET _____
CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

@ _____
@ _____
@ _____
@ _____
@ _____

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.

TOTAL _____
TAX _____
TOTAL CHARGE _____
DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature]

X JOHN J. ARMBRUSTOR
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 prepared 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.

ORIGINAL

Date 7-12-97 District Med. Lodge Ticket No. 6263
 Company R+G Oil Co. Rig Duke #2
 Lease Dunn Well No. 1-22
 County Reno State Ks.
 Location Abbeville, 6n-1/4w-5/s Field 22-23-8

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Sks Yield 5-155 ft³/sk Density _____ PPG

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LEAD: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type CLASS A

60/40/4%Gel Excess _____

Amt. 190 Sks Yield 1.41 ft³/sk Density 14.0 PPG

WATER: Lead _____ gals/sk Tail 6.7 gals/sk Total 30 Bbls.

Pump Trucks Used 233-302 Justin H.

Bulk Equip. 242 John K.

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 85/8 Type F-55 Weight 24 Collar _____

Casing Depths: Top 270-85/8 Bottom _____

Drill Pipe: Size 4 1/2 Weight 16.60 Collars x hole
 Open Hole: Size 7 7/8 T.D. 3800 ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.5993
 Drill Pipe: Bbls/Lin. ft. .0142 Lin. ft./Bbl. 70.32
 Annulus: Bbls/Lin. ft. .0406 Lin. ft./Bbl. 24.6474
 Bbls/Lin. ft. .0440 Lin. ft./Bbl. 22.72
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type mod-H₂O Amt. _____
 Mud Type Chemical Weight 9.2 PPG

COMPANY REPRESENTATIVE John Ambruster

CEMENTER Valley Drilling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
4:30	250 225 200 175		11 8 4 12		5/2 5/2 5/2 5	Pipe set 1300' Start Fresh H ₂ O SPACER Start Cement 355xs 60/40/4%Gel Start H ₂ O PAD Start mud Stop Pumps.
4:38						
4:58	100 100 100 75		10 8 7		5/2 5/2 5/2	Pipe set 700' Start Fresh H ₂ O SPACER Start Cement 355xs 60/40/4%Gel Start Fresh H ₂ O Displace Stop Pumps.
5:05						
5:15	75 75		2 19		3 5/2	Pipe set 330' Start Fresh H ₂ O Start Cement 7.5xs 60/40/4%Gel Cement Circ. to Surface Pump Fresh H ₂ O - Clean Pipe
5:20	50		1		1/2	
5:45	50		3 3/4		3	Rathole w/ 25xs 1.1/110/4%Gel
5:50	50		2 1/2		3	incose hole w/ 110xs 60/40/4%Gel
						RELEASED
						OCT 6 1998

FROM CONFIDENTIAL