

FORM MUST BE TYPED

SIDE ONE

ORIGINAL

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

Operator: License # 5418

Name: ALLEN DRILLING COMPANY

Address P.O. Box 1389

Great Bend, KS 67530

City/State/Zip \_\_\_\_\_

Purchaser: D & A

Operator Contact Person: Doug Hoisington

Phone: (303) 799-6660

Contractor: Name: ALLEN DRILLING COMPANY

License: 5418

Wellsite Geologist: Denny Furst

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: N/A

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

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

Deepening  Re-perf.  Conv. to Inj/SWD

Plug Back  PBTD

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

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

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

7/22/95 7/28/95 7/29/95

Spud Date Date Reached TD Completion Date

API NO. 15- 145-214290000

County Pawnee  
100 E of \_\_\_\_\_

- - SW - SE Sec. 17 Twp. 21 Rge. 16 X W

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

1880 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 GIESSEL Well # 1

Field Name Wildcat

Producing Formation D & A

Elevation: Ground 1994' KS 2003

Total Depth 3875' PBTD --

Amount of Surface Pipe Set and Cemented at 1040 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 cat.

Drilling Fluid Management Plan ACT 1 D & A  
(Data must be collected from the Reserve Pit) APW 12-13-95

Chloride content 5500 ppm Fluid volume 160 bbls

Dewatering method used Hauled to disposal well

Location of fluid disposal if hauled offsite:  
Disposal Well: Cheyenne Well Service

Operator Name Pintail

Lease Name Ditman License No. 5086

SW Quarter Sec. 34 Twp. 21 S Rng. 16W E/W

County Pawnee Docket No. 45,759-CC-3584

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 [Signature]

Title Vice President Date 22 Aug 95

Subscribed and sworn to before me this 22nd day of August.

Notary Public [Signature]

Date Commission Expires My Commission Expires June 15, 1998



RECEIVED  
STATE CORPORATION COMMISSION  
9-27-95

SEP 27 1995

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

Operator Name ALLEN DRILLING COMPANY Lease Name GIESSEL Well # 1

Sec. 17 Twp. 21S Rge. 16W  East  West  
 County Pawnee

**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:  
 DIL DSM/CDL  
 CAL

Log		Formation (Top), Depth and Datum	Sample
Name	Top	Datum	
Topeka	3094	-1090	
King Hill Shale	3189	-1185	
Queen Hill Shale	3258	-1254	
Heebner Shale	3366	-1362	
Toronto	3388	-1384	
Iatan	3458	-1454	
Lansing	3470	-1466	
BKE	3703	-1699	
Arbuckle Sandy Dol	3810	-1806	
Arbuckle Dolomite	3820	-1816	

CASING RECORD <input 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"	28#	1040'	60/40poz	435	3%cc 2%gel

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(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. \_\_\_\_\_ 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 \_\_\_\_\_

Geologic Report

ORIGINAL

15-145-214290000

Allen Drilling (Liboc, Inc. Turnkey)  
No. 1 Giessel Sec. 17-T21S-16W  
Pawnee County, Kansas

The No. 1 Giessel was an offset to the M.B. Armer Drilling Co. DeRoo No. 1 Sec. 17-T21S-R17W, SWSWSE which tested 4000-5000 MCFGPD from the Arbuckle. The No. 1 Giessel was watched from spud to total depth. Wet and dry samples were saved and examined by microscope and black light from base of surface casing to total depth 3875 in the Arbuckle formation. The only shows of oil or gas were noted in the Basal Penn Sand and the Arbuckle dolomite.

The sand is loose grained with no cementing material. Pale green florence and a white flowing cut was observed under black light. A few drops of dark brown oil were observed in wet samples.

The Arbuckle dolomite was tan with medium rhombic intercrystalline porosity. Porosity was poor to fair. A pale white florence with slight dark brown cut was observed under black light. A slight odor was noted. The dolomite had rich even brown staining.

Packers failed while testing the Arbuckle and only gas cut watery mud, gas cut muddy water and water were recovered. Even though dual packers were run above and below the test interval they failed in two DST attempts. This may have occurred because 63 feet of tail pipe was run below the lower packers. If any extra weight, that is the dead weight of the drill string is put on this, interval the tail pipe may bend enough to force the packer to fail. Another cause of packer failure is washout of the hole above and below the packer seats. If a rotary hole is drilled with too much weight on the bit washout may be excessive. This did not appear to be the case as the logs on the No. 1 Giessel did not indicate excessive wash out.

The interval tested is highly fractured and this fact alone could cause packer failure.

On DST No. 2 from 3745-3822 the packers did hold for 25 minutes, long enough for gas to surface. Only gas cut watery mud, gas cut muddy water and water were recovered.

The reason that no gas flow occurred could be explained by the fact that a thin gas pay exists in the No. 1 Giessel and pressure in the Arbuckle water zone overcame and blocked off the gas zone.

RECEIVED  
STATE OF KANSAS DEPARTMENT OF GEOLOGY

JAN 25 1996

12 NORTH MAIN ST. TOPEKA  
KANSAS

# ALLIED CEMENTING CO., INC.

2837

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

ORIGINAL

SERVICE POINT:

*Great Bend*

DATE <i>7-22-95</i>	SEC. <i>17</i>	TWP. <i>21</i>	RANGE <i>16</i>	CALLED OUT <i>5:30</i>	ON LOCATION <i>6:30</i>	JOB START <i>10:30</i>	JOB FINISH <i>11:30</i>
LEASE <i>Miessal</i>	WELL # <i>1</i>	LOCATION <i>Horned 2N 2W 16E</i>			COUNTY <i>Townsend</i>	STATE <i>K.S.</i>	

OLD OR NEW (Circle one)

CONTRACTOR *Allen Drilling Rig #1*  
 TYPE OF JOB *Surface pipe 7-6*  
 HOLE SIZE *12 1/4* T.D. *1042 ft*  
 CASING SIZE *8 1/2* DEPTH *1042 ft*  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE *1027 ft* SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. *15 ft*  
 PERFS. *Displace ment 64.0 bbl*

OWNER \_\_\_\_\_  
 CEMENT \_\_\_\_\_  
 AMOUNT ORDERED *435 4/8 37cc 28 gal*  
 COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK CEMENTER *Mike M.*  
 # *120* HELPER *Duane S.*  
 BULK TRUCK \_\_\_\_\_  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_  
 BULK TRUCK \_\_\_\_\_  
 # *261* DRIVER *Rick W.*

**REMARKS:**

*Circulate Hole with Rig mud pump*  
*Mix Cement Release plug*  
*Displace plug Down with water*  
*Cement did Circulate to surface*

SERVICE RECEIVED  
STATE CORPORATION COMMISSION

DEPTH OF JOB *1042 ft*  
 PUMP TRUCK CHARGE *SEP 27 1995*  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
 PLUG *1-9 1/2 wooden plug* @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

CHARGE TO: *Allen Drilling Co.*  
 STREET *P.O. Box 1389*  
 CITY *Great Bend* STATE *K.S.* ZIP *67530*

**FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

*Thank you  
 Allen Drilling Co. Inc  
 Mike + Duane + Rick*

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 *Maria Pugh*

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

## 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. - 4907

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

ORIGINAL

SERVICE POINT: Russell

DATE <u>7-29-95</u>	SEC. <u>17</u>	TWP. <u>21s</u>	RANGE <u>16w</u>	CALLED OUT <u>2:00am</u>	ON LOCATION <u>4:15AM</u>	JOB START <u>7:30am</u>	JOB FINISH <u>10:30AM</u>
LEASE <u>Giessen</u>	WELL # <u>1</u>	LOCATION <u>LARNED NATL. GUARD ARM. 2 N 1/2 W</u>		COUNTY <u>PAWNEE</u>	STATE <u>KANSAS</u>		

OLD OR NEW (Circle one) NEW

CONTRACTOR ALLEN DRLG. Rig #1

TYPE OF JOB ROTARY Plug

HOLE SIZE 7 7/8 T.D. 3875'

CASING SIZE 8 5/8 SURFACE DEPTH 1040'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 X-H DEPTH 3875'

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 165 SK 60/40 6% GEL

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK CEMENTER Shan

# 177 HELPER Will

BULK TRUCK DRIVER Paul

# 160

BULK TRUCK DRIVER \_\_\_\_\_

# \_\_\_\_\_

**REMARKS:**

50 SK @ 3875'

50 SK @ 1070'

40 SK @ 300'

10 SK @ 40' Plug

15 SK @ RATAde

**SERVICE**

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

PLUG \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO: LIBOC

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.

SIGNATURE Robert Peterson

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



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(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.



FORMATION TESTING

TICKET **405 61000**

P. O. BOX 1599 PHONE (316) 262-5861  
WIDHITA, KANSAS 67201

Elevation 1994.61 Formation Arbuckle Eff. Pny.      Ft.

District GREAT Bend Date 7-28-95 Customer Order No.     

COMPANY NAME Libac, Inc  
ADDRESS 3300 S. Parkee Road, Suite 206 Aurora, Colorado 80014  
LEASE AND WELL NO. Giessel #1 COUNTY Lawrence STATE Ks Sec. 17 Twp. 21 Rge. 16  
Mail Invoice To Allen Dalg P.O. Box 1389 Great Bend, Ks 67530 No. Copies Requested 100  
Co. Name Libac, Inc. Address       
Mail Charts To      No. Copies Requested 100

Formation Test No. 2 Interval Tested From 3745 ft. to 3822 ft. Total Depth 3875 ft.  
Packer Depth 3740 ft. Size 6 5/8 in. Packer Depth 3822 ft. Size 6 5/8 in.  
Packer Depth 3745 ft. Size 6 5/8 in. Packer Depth 3827 ft. Size 6 5/8 in.

Depth of Selective Zone Set       
Top Recorder Depth (Inside) 3813 ft. Recorder Number 10270 Cap 4150  
Bottom Recorder Depth (Outside) 3816 ft. Recorder Number 13550 Cap 4125  
Below Straddle Recorder Depth 3832 ft. Recorder Number 13401 Cap 4000

Drilling Contractor Allen Dalg #1 Drill Collar Length      I. D.      in.  
Mud Type Chemical Viscosity 244 Weight Pipe Length      I. D.      in.  
Weight 9.1 Water Loss 10.8 cc. Drill Pipe Length 36.31 I. D. 3.8 in.  
Chlorides 5500 P.P.M. Test Tool Length 37 ft. Tool Size 5 1/2 in.  
Jars: Make      Serial Number      Anchor Length 77 ft. Size 5 1/2 in.  
Did Well Flow?      Reversed Out      Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: IF - STAGN Blow throughout  
FE - Fair Blow throughout "4" To "3" Blow

Recovered 280 ft. of GAS CUT WATERY mud 10% GAS 25% WATER 65% mud  
Recovered 300 ft. of GAS CUT muddy WATER 5% GAS 45% mud 50% WATER  
Recovered 1440 ft. of WATER

Recovered      ft. of       
Recovered      ft. of       
Chlorides 25000 P.P.M. Sample Jars used 5 Remarks:     

ORIGINAL

Time On Location 4:30 A.M. Time Pick Up Tool 4:50 A.M. Time Off Location      P.M.  
Time Set Packer(s) 6:20 P.M. Time Started Off Bottom 10:50 P.M. Maximum Temperature 120  
Initial Hydrostatic Pressure      (A) 1941 P.S.I.  
Initial Flow Period 30 Minutes (B) 790 P.S.I. to (C) 987 P.S.I.  
Initial Closed In Period 60 Minutes (D)      P.S.I.  
Final Flow Period 60 Minutes (E)      P.S.I. to (F)      P.S.I.  
Final Closed In Period 120 Minutes (G)      P.S.I.  
Final Hydrostatic Pressure      (H) 1900 P.S.I.

JAN 25 1996

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Denny [Signature]  
Signature of Customer or his authorized representative

Western Representative Ray Schwarz Thant  
UDU

FIELD INVOICE

Open Hole Test \$       
Misturb       
Straddle Test       
Jars \$       
Selective Zone \$       
Safety Joint \$       
Standby \$       
Evaluation \$       
Extra Packer TWO \$       
Circ. Sub. \$       
Mileage \$       
Fluid Sampler      \$       
Extra Charts \$