

# ORIGINAL

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE 330' NW OF

API NO. 15- 195-22,054-00-00

County TREGO

NE SE SE Sec. 30 Twp. 13 Rge. 21 East West X

1223 Ft. North from Southeast Corner of Section

533 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

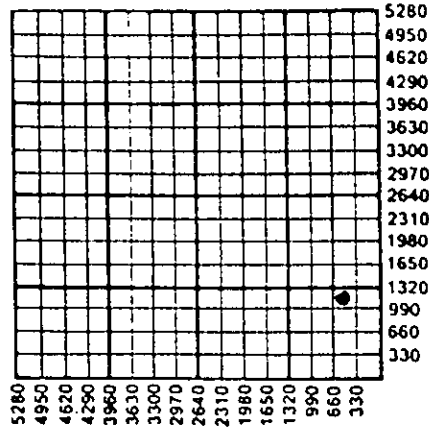
Lease Name F. BONGARTZ Well # 1

Field Name LOCKER NORTH

Producing Formation CHEROKEE SAND

Elevation: Ground 2342 KB 2347

Total Depth 4222 PBDT



Amount of Surface Pipe Set and Cemented at 207 Feet

Multiple Stage Cementing Collar Used? X Yes \_\_\_ No

If yes, show depth set 1735 Feet

If Alternate II completion, cement circulated from 1735

feet depth to surface w/ 255 + 75 sx cmt.

Operator: License # 30347

Name: DECAB COMPANY

Address P.O. BOX 609

City/State/Zip HAYS, KS 67601

Purchaser: PERMIAN

Operator Contact Person: THOMAS J. YOUNGER

Phone (913) 625-9148

Contractor: Name: WESTERN KANSAS DRILLING

License: 4083

Wellsite Geologist: RON NELSON

Designate Type of Completion

New Well \_\_\_ Re-Entry \_\_\_ Workover

Oil \_\_\_ SWD \_\_\_ Temp. Abd.

\_\_\_ Gas \_\_\_ Inj \_\_\_ Delayed Comp.

\_\_\_ Dry \_\_\_ Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

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

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

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

Drilling Method:  Mud Rotary \_\_\_ Air Rotary \_\_\_ Cable

6-6-90 6-12-90 6-20-90

Spud Date Date Reached TD Completion Date

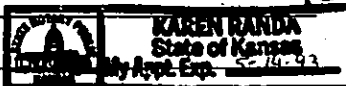
**INSTRUCTIONS:** This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Thomas J. Younger  
Title OPERATOR Date \_\_\_\_\_

Subscribed and sworn to before me this 6th day of Oct. 19 90.

Notary Public Karen Randa  
KAREN RANDA  
Date Commission Expires 5-14-93



**K.C.C. OFFICE USE ONLY**

F \_\_\_ Letter of Confidentiality Attached

C  Wireline Log Received

C  Drillers Timelog Received

Distribution

\_\_\_ SWD/Rep \_\_\_ NGPA

\_\_\_ Plug \_\_\_ Other (Specify)

OCT 1 1990  
10-11-90  
KCC  
KGS

**SIDE TWO**

Operator Name DECAB COMPANY Lease Name F. BONGARTZ Well # 1  
 Sec. 30 Twp. 13 Rge. 21  East County TREGO  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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.)  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p style="text-align: center;"><b>Formation Description</b></p> <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: center;">Top</th> <th style="text-align: center;">Bottom</th> </tr> </thead> <tbody> <tr> <td>SAND &amp; SHALE</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1754</td> </tr> <tr> <td>ANHYDRITE</td> <td style="text-align: center;">1754</td> <td style="text-align: center;">1799</td> </tr> <tr> <td>SAND &amp; SHALE</td> <td style="text-align: center;">1799</td> <td style="text-align: center;">2980</td> </tr> <tr> <td>SHALE</td> <td style="text-align: center;">2980</td> <td style="text-align: center;">3207</td> </tr> <tr> <td>LIME &amp; SHALE</td> <td style="text-align: center;">3207</td> <td style="text-align: center;">4222 RTD</td> </tr> </tbody> </table>	Name	Top	Bottom	SAND & SHALE	0	1754	ANHYDRITE	1754	1799	SAND & SHALE	1799	2980	SHALE	2980	3207	LIME & SHALE	3207	4222 RTD
Name	Top	Bottom																	
SAND & SHALE	0	1754																	
ANHYDRITE	1754	1799																	
SAND & SHALE	1799	2980																	
SHALE	2980	3207																	
LIME & SHALE	3207	4222 RTD																	

CASING RECORD <input type="checkbox"/> New <input checked="" 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	20#	207	STD	125	
PRODUCTION	7 7/8	4 1/2	10 1/2#	4222	STD	20	
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used) Depth			
32	4113-4121						
24	4094-4100						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Size <u>2 3/8</u>	Set At <u>4180</u>	Packer At <u>NONE</u>			
Date of First Production	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 <u>25</u> Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

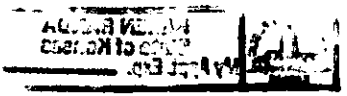
Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

**METHOD OF COMPLETION**

Open Hole  Perforation  Dually Completed  Commingled

Other (Specify) \_\_\_\_\_

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



ORIGINAL



REMIT TO:

P.O. BOX 951046  
DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES ORIGINAL

A Halliburton Company

15-195-22054-00-00

INVOICE NO.	DATE
863336	06/06/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
F. BONGARTZ 1		TREGO		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
HAYS		WESTERN		CEMENT SURFACE CASING		06/06/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER		SHIPPED VIA	FILE NO.
227928	JIM MANLY				COMPANY TRUCK	97556

\*PD BY CK# 10B1

\$3,860.04\*

DIRECT CORRESPONDENCE TO:

DECAB CO.  
P.O. BOX 609  
HAYS, KS 67601

SUITE 600  
COLORADO DERBY BUILDING  
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	22	MI	2.35	51.70
001-016	CEMENTING CASING	207	FT	440.00	440.00
030-503	CMTG PLUG LA-11,CP-1,CP-3,TOP	8	5/8 IN	59.00	59.00
504-308	STANDARD CEMENT	75	SK	5.45	408.75 *
506-105	POZMIX A	50	SK	2.88	144.00 *
506-121	HALLIBURTON-GEL 2%	2	SK	.00	N/C *
509-406	ANHYDROUS CALCIUM CHLORIDE	3	SK	26.25	78.75 *
500-207	BULK SERVICE CHARGE	131	CFT	1.10	144.10 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	123.090	TMI	.75	92.32 *
INVOICE SUBTOTAL					1,418.62
DISCOUNT-(BID)					390.98-
INVOICE BID AMOUNT					1,027.64
*-KANSAS STATE SALES TAX					26.12
*-HAYS CITY SALES TAX					3.07
<p><b>PAID</b></p> <p>JUL 6 1990</p> <p>HALLIBURTON SERVICES</p> <p>Per <u>CB126110</u></p>					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$1,056.83

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT. CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

\*\*\* CASH JOB \*

ORIGINAL



HALLIBURTON SERVICES

ORIGINAL

REMIT TO:

P.O. BOX 951046  
DALLAS, TX 75395-1046

INVOICE

INVOICE NO.	DATE
005993	09/28/1990

A Halliburton Company

15-195-22054-00-00

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
ONGARTZ 1		TREGO		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
HAYS		CO. TOOLS		SQUEEZE PERFORATIONS		09/28/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
02900	LARRY PATTERSON			COMPANY TRUCK	02127	

DIRECT CORRESPONDENCE TO:

PRODUCTION DRILLING, INC.  
P. O. BOX 680  
HAYS, KS 67601

SUITE 1300  
LIBERTY TOWER  
100 BROADWAY AVENUE  
OKLAHOMA CITY, OK 73102-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	30	MI	2.35	70.50 *
		1	UNT		
009-134	CEMENT SQUEEZE	1735	FT	960.00	960.00 *
009-019		1	UNT		
116-228	STRIPPER TYPE HEAD	1	EA	130.00	130.00 *
504-316	HALLIBURTON LIGHT W/STANDARD	255	SK	5.21	1,328.55 *
504-308	STANDARD CEMENT	75	SK	5.45	408.75 *
509-406	ANHYDROUS CALCIUM CHLORIDE	1	SK	25.75	25.75 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	96.810	TMI	.75	72.61 *
500-225	CEMENTING MATERIALS RETURNED	70	SK	1.042	72.94 *
500-207	BULK SERVICE CHARGE	402	CFT	1.10	442.20 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	556.425	TMI	.75	417.32 *
	INVOICE SUBTOTAL				3,928.62
	DISCOUNT--(BID)				785.71-
	INVOICE BID AMOUNT				3,142.91
	*--KANSAS STATE SALES TAX				133.58
	*--HAYS CITY SALES TAX				15.71
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$3,292.20

V 282  
90-6  
30000  
T 46

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT. CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

HALLIBURTON SERVICES  
Duncan, Oklahoma 73536

ORIGINAL

TICKET NO. 005993-9

A Division of Halliburton Company

15-195-22054-00-00

FORM 1906 R-11 32308-120

WELL NO. - FARM OR LEASE NAME 1		COUNTY T1	STATE KS	CITY / OFFSHORE LOCATION	DATE 9-27-11
CHARGE TO Halliburton Drilling, Inc.		OWNER		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS P.O. Box 680		CONTRACTOR		1 LOCATION 11/11/11 KS	CODE 35925
CITY, STATE, ZIP Hawley, KS, 67801		SHIPPED VIA	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	2 LOCATION	CODE
WELL TYPE 01	WELL CATEGORY 02	WELL PERMIT NO.	DELIVERED TO	3 LOCATION	CODE
TYPE AND PURPOSE OF JOB 075		B-595617	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
		1		MILEAGE 47374	30000				225	6750
	009-017	1		2000 chg	17355					38700
		1		2000 chg						4000

THIS IS AN INVOICE

DATE RECEIVED OCT 11 1990

DATE ENTERED

ACCOUNT NO.

DATE POSTED

TO INVENTORY

DATE PAID

Ck No.

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-595617 271812

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_

WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X A. J. PATTERSON  
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X [Signature]  
CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

[Signature]  
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL 271812

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

**BULK MATERIALS DELIVERY**

AND

TICKET CONTINUATION

**ORIGINAL**

FOR INVOICE AND  
TICKET NO. 005993

15-195-22084-00-00

**HALLIBURTON**  
SERVICES

A Division of Halliburton Company  
DUNCAN, OKLAHOMA 73536

DATE <b>9-28-90</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Bongartz #1</b>	COUNTY <b>Trego</b>	STATE <b>Kansas</b>
CHARGE TO <b>Production Drilling Co.</b>		OWNER <b>Same</b>	CONTRACTOR	No. <b>B 595617</b>
MAILING ADDRESS <b>g</b>		DELIVERED FROM <b>Hays, Ks</b>	LOCATION CODE <b>25525</b>	PREPARED BY <b>Kuhn</b>
CITY & STATE		DELIVERED TO <b>S/W Ellis, Ks</b>	TRUCK NO. <b>0530</b> <b>51252</b>	RECEIVED BY <i>Kenn Richman</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
		L	D		QTY.	MEAS.	QTY.	MEAS.				
504-316		1	B	Halliburton Light Cement	<del>2</del> <del>375</del> <del>828</del>				5.21	<del>1,928</del> <del>25</del> <b>1,693 25</b>		
504-308	516.00261	1	B	Standard Cement	75				2.45	408 75		
509-406	890.50812	1	B	Calcium Chloride Blended	1				25.75	25 75		
					THIS IS NOT AN INVOICE							
<i>500 306</i>				Returned Mileage Charge	<i>6,454</i>	TOTAL WEIGHT	<i>30</i>	LOADED MILES	<i>96.810</i>	TON MILES	<i>75</i>	<i>72 61</i>
<i>500 225</i>				SERVICE CHARGE ON MATERIALS RETURNED				<i>70</i>	CU. FEET	<i>1042</i>		<i>72 94</i>
500-207		1	B	SERVICE CHARGE				402	CU. FEET	1.10		442 20
500-306		1	B	Mileage Charge	37,095	TOTAL WEIGHT	30	LOADED MILES	556.425	TON MILES	.75	417 32
No. <b>B 595617</b>		CARRY FORWARD TO INVOICE						SUB-TOTAL		<b>2,987 27</b>		
										<b>276812</b>		

DISTRICT Hays, KS 15-195-22054-00-00 DATE 9-27-70

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Prod Drilg (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE Bongart 2 SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RANGE \_\_\_\_\_  
FIELD \_\_\_\_\_ COUNTY Trego STATE KS OWNED BY Sam P

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
PACKER: TYPE Bridd 1700' + SET AT \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_ MUD WEIGHT \_\_\_\_\_  
BORE HOLE \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>u</u>		<u>1 1/2</u>	<u>6L</u>		
LINER						
TUBING	<u>u</u>		<u>2 3/8</u>	<u>6L</u>		
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED

Ann Prod 1735' + Allow PT to bring cont to surface w/ 25 SKS  
HLc + 75 SKS class A 290cc

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
  - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
    - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
    - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
    - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
  - That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
  - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
  - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
  - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
  - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
  - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.  
SIGNED [Signature] CUSTOMER  
DATE 9-28-70

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

WELL DATA

FIELD \_\_\_\_\_ SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RNG. \_\_\_\_\_ COUNTY Texas STATE \_\_\_\_\_

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING						
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-28-70</u>	DATE <u>7-28-70</u>	DATE <u>7-28-70</u>	DATE <u>7-28-70</u>
TIME <u>12:00</u>	TIME <u>13:45</u>	TIME <u>15:30</u>	TIME <u>17:30</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Roberts</u>	<u>0534</u>	<u>4-1-1-1</u>
<u>D. Roberts</u>	<u>0532</u>	<u>"</u>
<u>R. Roberts</u>	<u>0530</u>	<u>"</u>
<u>R. Roberts</u>	<u>0530</u>	<u>"</u>

MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL. %

ACID TYPE \_\_\_\_\_ GAL. %

ACID TYPE \_\_\_\_\_ GAL. %

SURFACTANT TYPE \_\_\_\_\_ GAL. IN

NE AGENT TYPE \_\_\_\_\_ GAL. IN

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. IN

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. IN

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. IN

BREAKER TYPE \_\_\_\_\_ GAL.-LB. IN

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB.

PERFPAC BALLS TYPE \_\_\_\_\_ QTY.

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT 1317

DESCRIPTION OF JOB  
Pls. 1735 + 11.11.11 - 11.11.11  
7.5.70

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE [Signature]

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>255</u>	<u>412</u>		<u>R</u>		<u>1.74</u>	<u>13.1</u>
	<u>33</u>	<u>412</u>		<u>R</u>		<u>1.12</u>	<u>13.1</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_

HYDRAULIC HORSEPOWER \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. \_\_\_\_\_

CEMENT SLURRY: BBL.-GAL. 126.5 + 15.75

TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

REMARKS  
Thank you  
Ken



**ORIGINAL**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							called out to cm from 1725 to surf
	1145							on 1000 w/ 325 SKS flow 4 1/2 hrs
	1135							sum 3 1/2 hrs
	1545					1000		Run PK 10 1745 press ch; 4 tools
	1525					500		Run PK 10 16H press Ann shut in
	1600	2				700		Take injection rate 2 bpm blow broaden head
	1610	2.5				600		ST. mix cm
	1615					800		Had 40 SKS mixed mixed cm
	1655					700		to pit from broaden head
	1659					500		Had about 255 SKS HCC mixed
	1703	2.5				750		cm at 20 pit
	1708	1				300		Switch to 75 SKS comp at 20 pit
	1710					450		cm mixed, shut in, wash pump & line out
	1713					1000		ST. Displ
	1721					400		3 bbl displaced, shut valve broaden head
	1722					500		Tag displ 6.5 bbl shut in
	1725					700		wash up PK
	1745							open to well
								pump 1 bbl
								pump 2 bbl, shut in @ well
								7.5 bbl total displ.
								Ruck up equipment
								Job complete
								<i>Richardson</i>
								<i>Borris</i>
								<i>R. Fisher</i>
								<i>D. Northrup</i>

CUSTOMER

CUSTOMER OR HIS AGENT (SIGNATURE)

HALLIBURTON APPROVAL

ORIGINAL IMAGES WILL BE ADDED ON

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

15-195-22054-00-00  
ORIGINAL 2970

Well Name & No. <u>#1 Bengartz</u>	Test No. <u>1</u>	Date <u>6/11/90</u>
Company <u>DEKAB Company</u>	Zone-Tested <u>Cherokee Sep</u>	
Address <u>Box 609 Hays KS 67601</u>	Elevation _____	
Co. Rep./Geo. <u>Ron Nelson / Tom Sawyer</u>	cont. <u>WKD #1</u>	Est. Ft. of Pay <u>2347</u>
Location: Sec. <u>30</u> Twp. <u>13s</u> Rge. <u>21w</u> Co. <u>Trego</u> State <u>KS</u>		
No. of Copies <u>2</u> Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____		

Interval Tested <u>4088-4128</u>	Drill Pipe Size <u>4 1/2" KH-FH</u>
Anchor Length <u>410</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4083</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4088</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4128</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. _____ lb/gal	Viscosity _____ Filtrate _____
Tool Open @ <u>3:33 AM</u> , <u>2</u> Initial Blow <u>string blow</u> <u>bottom bucket in 20 sec</u> <u>6436 in</u>	
<u>Swirly ground 126 MCFD</u>	
Final Blow <u>1' blow building to bottom of bucket in 1 min</u>	

Recovery — Total Feet 250 Flush Tool? \_\_\_\_\_

Rec. <u>40</u> Feet of <u>HOCM 15 9/16" oil 85 9/16" mud</u>
Rec. <u>240</u> Feet of <u>very heavy gas cut muddy oil</u>
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F	Gravity _____ °API @ _____ °F	Corrected Gravity _____ °API
RW _____ @ _____ °F	Chlorides _____ ppm	Recovery Chlorides _____ ppm
(A) Initial Hydrostatic Mud <u>2104</u>	PSI AK1 Recorder No. <u>13308</u>	Range <u>4700</u>
(B) First Initial Flow Pressure <u>169</u>	PSI @ (depth) <u>4093</u>	w/Clock No. <u>14309</u>
(C) First Final Flow Pressure <u>169</u>	PSI AK1 Recorder No. <u>2023</u>	Range <u>4000</u>
(D) Initial Shut-In Pressure <u>205</u>	PSI @ (depth) <u>4127</u>	w/Clock No. <u>27573</u>
(E) Second Initial Flow Pressure <u>169</u>	PSI AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>169</u>	PSI @ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure _____	PSI Initial Opening <u>15</u>	Test _____
(H) Final Hydrostatic Mud <u>2064</u>	PSI Initial Shut-In <u>15</u>	Jars _____
	Final Flow <u>15</u>	Safety Joint _____
	Final Shut-In <u>=</u>	Straddle _____

Approved By \_\_\_\_\_

Our Representative Paul Simpson

Printcraft Printers - Hays, KS

TOTAL PRICE \$ 400

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

**TEST TICKET ORIGINAL No. 2980**

Well Name & No. <u>#1 Burger 2</u>		Test No. <u>2</u>	Date <u>6/11/90</u>
Company <u>DeCob Company</u>		Zone Tested <u>Cherokee Sd</u>	
Address <u>Box 609 Hays KS 67601</u>		Elevation <u>2317</u>	
Co. Rep./Geo. <u>Ron Nelson</u>	cont. <u>WED #1</u>	Est. Ft. of Pay <u>6</u>	
Location: Sec. <u>30</u>	Twp. <u>13S</u>	Rge. <u>21W</u>	Co. <u>Trego</u> State <u>KS</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____	Turnkey Yes _____ No _____

Interval Tested <u>4088-4128</u>	Drill Pipe Size <u>1 1/2" x 11-11</u>
Anchor Length <u>40</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>4083</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>4088</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4128</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. _____ lb/gal.	Viscosity _____ Filtrate _____
Tool Open @ <u>8:16 AM</u>	Initial Blow <u>1 blow building to bottom of 4 min</u>

Final Blow 1 1/2" blow building to bottom of bucket in 3 minutes  
WTS 2.5 min into open TSTM

Recovery — Total Feet \_\_\_\_\_ Flush Tool? \_\_\_\_\_

Rec. <u>270</u>	Feet of <u>1 grossy oil</u>
Rec. <u>150</u>	Feet of <u>heavily gas cut muddy oil</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 121 °F Gravity 42 °API @ 90 °F Corrected Gravity 39 °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides \_\_\_\_\_ ppm System

(A) Initial Hydrostatic Mud <u>2049</u>	PSI	AK1 Recorder No. <u>13308</u>	Range <u>4700</u>
(B) First Initial Flow Pressure <u>66</u>	PSI	@ (depth) <u>4003</u>	w/Clock No. <u>14309</u>
(C) First Final Flow Pressure <u>98</u>	PSI	AK1 Recorder No. <u>2023</u>	Range <u>4000</u>
(D) Initial Shut-In Pressure <u>257</u>	PSI	@ (depth) <u>1127</u>	w/Clock No. <u>27573</u>
(E) Second Initial Flow Pressure <u>120</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>141</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>194</u>	PSI	Initial Opening <u>75</u>	Test <u>1100</u>
(H) Final Hydrostatic Mud <u>2027</u>	PSI	Initial Shut-In <u>30</u>	Jars _____
		Final Flow <u>45</u>	Safety Joint _____
		Final Shut-In <u>45</u>	Straddle _____

Approved By [Signature] \_\_\_\_\_

Our Representative [Signature] \_\_\_\_\_

Printcraft Printers - Hays, KS

TOTAL PRICE \$ 1100