

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

ORIGINAL

API No. 15 - 129-21163-0000

County Morton

SW - SW - NE - NE Sec. 15 Twp. 32 Rge. 40  East West

4030 Feet from S/N (circle one) Line of Section

1250 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 Evans G.U. B Well # 2HI

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3324' KB 3336'

Total Depth 2635' PBTD 2572'

Amount of Surface Pipe Set and Cemented at 526' Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan  
(Date must be collected from the Reserve Pit)

Chloride content 5800 ppm Fluid Volume 2140 bbls

Dewatering method used dried and filled

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

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S.Rng. EW

County \_\_\_\_\_ Docket No. \_\_\_\_\_

Operator: License # 5952

Name: Amoco Production Company

Address P.O. Box 800, Rm. 2118

City/State/Zip Denver, CO 80201

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

Operator Contact Person: Julie Victor

Phone (303) 830-4009

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: \_\_\_\_\_

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/Re-entry: old well info as follows:

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

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. \_\_\_\_\_

7/24/93 7/26/93 8/25/93

Spud Date Date Reached TD Completion Date

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 to the best of my knowledge.

Signature Julie Victor

Title Permitting Representative Date August 27, 1993

Subscribed and sworn to before me this 27 day of August, 1993

Notary Public Susan Callahan

Date Commission Expires August 02, 1994

RECEIVED  
K.C. STATE CORPORATION COMMISSION  
F  Letter of confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
9-3-93  
KCC  SWD  Wichita, NE  
KGS  Plug  Other (Specify)

Operator Name Amoco Production Company Lease Name Evans G.U. B Well # 2HI  
 County Morton  
 Sec. 15 Twp. 32 Rge. 40  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 (Attach Additional Sheets.) - <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Herington	2260'	
List All E. Logs Run:	Krider	2290'	
	Winfield	2332'	
	Towanda	2404'	
	Ft. Riley	2460'	

**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"	24#	526'	Class C	300	
Production	7-7/8"	5-1/2"	15.5#	2,635'	Class C	450	

**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					

**PERFORATION RECORD - Bridge Plugs Set/Type**

**Acid, Fracture, Shot, Cement Squeeze Record**

Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	2261-2312'; 2332-2353'; 2404-2414'; 2460-2490'	Frac with 245,560# of 10/20 Colo. Silica and 1567 bbl YF130	2261-2490'

**TUBING RECORD**

Size N/A Set At N/A Packer At N/A Liner Run  Yes  No

Date of First Resumed Production, SWD or Inj SI Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas 710 Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:

**METHOD OF COMPLETION**

Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled 2261-2490'  
 (If vented, submit ACO-18)  Other (Specify)

# ORIGINAL

## DRILLERS LOG

AMOCO PRODUCTION COMPANY  
EVANS GU "B" NO. 2 H1  
SECTION 15-T32S-R40W  
MORTON COUNTY, KANSAS

API #15-129-21163

COMMENCED: 07-23-93  
COMPLETED: 07-25-93

SURFACE CASING: 513' OF 8 5/8"  
CMTD W/150 SX LT. "C", 2% C.C.,  
1/4#/SX FLO-CELE; TAILED IN W/  
150 SX "C", 2% C.C., 1/4#/SX FLO-CELE.

FORMATION	DEPTH
SURFACE HOLE	0- 526
RED BED & SAND	526-1565
RED BED	1565-2590
LIME & SHALE	2590-2635    RTD

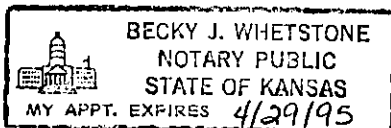
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 26TH DAY OF JULY, 1993



RECEIVED  
STATE CORPORATION COMMISSION  
Becky J. Whetstone  
SEP 03 1993  
BECKY J. WHETSTONE, NOTARY PUBLIC

CONSERVATION DIVISION  
Wichita, Kansas



CHARGE TO: Amoco Production  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

COPY

TICKET

No.

507318 - 9

PAGE 1 OF 2

FORM 1906 R-12

SERVICE LOCATIONS 1. <u>025540</u>	WELL/PROJECT NO. <u>2HI</u>	LEASE <u>Evans G.U.B.</u>	COUNTY/PARISH <u>Madison</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION	DATE <u>7-23-93</u>	OWNER <u>Amoco</u>
2. <u>025535</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Cherokee Drilling</u>	RIG NAME/NO. <u>Cherokee #2</u>	SHIPPED VIA <u>Co. 111</u>	DELIVERED TO <u>Location</u>	ORDER NO.
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION	RECEIVED CORPORATION COMM. DIVISION SEP 03 1993 Wichita, Kansas	
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF									
<u>000-112</u>		1				MILEAGE	<u>28496</u>	<u>1</u>	<u>on</u>	<u>30</u>	<u>m.</u>	<u>2.75</u>	<u>82.50</u>
<u>001-014</u>		1				Pump Charge		<u>8</u>	<u>hr</u>	<u>528</u>	<u>hr</u>		<u>735.00</u>
<u>030-016</u>		1				S w Top Plug		<u>1</u>	<u>ea</u>	<u>8 1/2</u>	<u>in</u>		<u>120.00</u>
<u>597</u>	<u>825.1269</u>	1				Alum Bottle		<u>1</u>	<u>ea</u>	<u>8 1/2</u>	<u>in</u>		<u>45.00</u>
<u>40</u>	<u>41071.9059</u>	1				Centralizers		<u>3</u>	<u>ea</u>	<u>8 1/2</u>	<u>in</u>	<u>92.00</u>	<u>276.00</u>
<u>350</u>	<u>490.10802</u>	1				Water A		<u>1</u>	<u>ea</u>	<u>1</u>	<u>lb</u>		<u>14.50</u>

<b>LEGAL TERMS:</b> Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, <b>PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY</b> provisions. CUSTOMER OR CUSTOMER'S AGENT SIGNATURE <b>X</b>	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY			AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <u>1213.00</u>  FROM CONTINUATION PAGE(S) <u>3583.40</u>  SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <u>4796.40</u>
	TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?						
	BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?						
	TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
DATE SIGNED	TIME SIGNED	<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered			TREE CONNECTION	TYPE VALVE		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND									

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	<b>X</b>	<u>Richard J. L...</u>	<u>D1033</u>	

## TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole 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, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. 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 EQUIPMENT, MATERIALS, 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 GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



TICKET CONTINUATION

COPY

TICKET No. 507 812

FORM 1911 R-8

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE	PAGE	OF
		LOG	ACCT	DF			QTY.	U/M			
						Cheyanne Drilling (Amoco)	Evans G.U. B 2 HT		7-23-93		
504-050	516.00265					Premium Plus Cement	150	sk			
504-120						Halliburton light Cement	150	sk			
504-050	516.00265										
506-105	516.00286										
506-121	516.00259										
507-210	890.50071					Flocele B/ 1/4 W/ 300	75	lb			
509-406	890.50812					Calcium Chloride B/ 2% W/ 300	6	sk			
500-207						SERVICE CHARGE					
500-306						MILEAGE CHARGE					
						TOTAL WEIGHT #	267,443#				
						LOADED MILES	30				
						TON MILES	426.645				
						CUBIC FEET	317				
									1 25		396 25
									85		362 65

ORIGINAL

RECEIVED  
STATE CORPORATION COMMISSION

SEP 03 1993

CONSERVATION DIVISION  
WITHIN

CONTINUATION TOTAL 3580.47

**JOB LOG** FORM 2013 R-3

CUSTOMER Amoco Production	WELL NO. CU B. 241	LEASE Evans	JOB TYPE 8 5/8" Surface	TICKET NO. 507318
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	14:30							Called out
	16:30							ON location, Rg P. King
	17:00							Start Drilling, run casing against casing on bottom
	19:55							hook up iron rig circulating
	20:05							hook up iron, Co Tek
	20:15							Start lead Cement
	20:20	5.5	55			175		Start Tail Cement
	20:30	5.5	35			175		Shot down, deep plug
	20:39							Start water displacement
	20:41	5	12			120		Cement circulated to surface
	20:43	5	9			200		Slowed rate
	20:45	3	10			250		plug landed
	20:47					250		pressured up
	20:49					500		Shot in head & manifold
	20:49					500		Job Complete
	20:00							Thanks for Calling Halliburton Richard (circled)
								Slurry Circulated = 19 BBLs ±
								Plug landing PSI = 250 #
								Lead Cat 175 #
								Average PSI Tail Cat 175 #
								Displ 200 #
								Lead Cat - 5.5 BPM
								Average Rate Tail Cat - 5.5 BPM
								Displ = 5 BPM
								Overall: 5.25 BPM

**WELL DATA**

FIELD W. Ralla ORIGINAL SEC. 15 TWP. 30 RING. 40 COUNTY Moitlan STATE KS

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	N	24	8 1/2	11B	528	
LINER						
TUBING						
OPEN HOLE			12 1/4	KB	525	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-23-93</u>	DATE <u>7-23-93</u>	DATE <u>7-23-93</u>	DATE <u>7-23-93</u>
TIME <u>14:30</u>	TIME <u>16:30</u>	TIME <u>19:00</u>	TIME <u>21:00</u>

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>1/2" x 1 1/2"</u>	<u>1</u>	<u>H</u>
FLOAT SHOE		<u>0</u>
GUIDE SHOE		<u>0</u>
CENTRALIZERS	<u>3</u>	<u>1</u>
BOTTOM PLUG		<u>H 0</u>
TOP PLUG	<u>1</u>	<u>0</u>
HEAD	<u>1</u>	<u>0</u>
PACKER		<u>0</u>
OTHER <u>1/2" x 1 1/2"</u>	<u>1</u>	<u>0</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>R Taylor</u>	<u>124032</u>	<u>40098 Liberal</u>
<u>T Payer</u>	<u>48120</u>	<u>75456 Liberal</u>
<u>M Hance</u>	<u>F-7343</u>	<u>44419 Hugoton</u>
		<u>7620 Hugoton</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. \_\_\_\_\_ IN  
PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

DEPARTMENT Cement  
DESCRIPTION OF JOB 2 1/2" Surface

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR RTJ COPIES REQUESTED 2

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>		<u>111C</u>	<u>C</u>	<u>B</u>	<u>2% CC, 1/4" Ak Flocc</u>	<u>206</u>	<u>123</u>
<u>2</u>		<u>111C</u>	<u>C</u>	<u>B</u>	<u>2% CC, 1/4" Ak Flocc</u>	<u>132</u>	<u>148</u>

**PRESSURES IN PSI**

**SUMMARY**

**VOLUMES**

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 51  
SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 90  
HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. 121  
ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
AVERAGE RATES IN BPM \_\_\_\_\_  
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
CEMENT LEFT IN PIPE \_\_\_\_\_  
FEET 14.93 REASON Low Joint

**RAMARKS**

See Job log

CUSTOMER Amco Production  
LEASE Amco G.U. B  
WELL NO. 2HT  
JOB TYPE 2 1/2" Surface  
DATE 7-23-93





CHARGE TO: *Amoco Production*  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

COPY

TICKET

No.

507320 - 0

FORM 1906 R-12

PAGE 1 OF 2  
 MISS OF

1. <i>Liberal Ks</i>	WELL/PROJECT NO. <i>2 H/E</i>	LEASE <i>EVANS G.U. "B"</i>	COUNTY/PARISH <i>Morton</i>	STATE <i>Ks.</i>	CITY/OFFSHORE LOCATION	DATE <i>7-25-93</i>	OWNER
2. <i>Houghton Ks.</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Cheyenne Drtg</i>	RIG NAME/NO. <i>Cheyenne #2</i>	SHIPPED VIA	DELIVERED TO <i>Location</i>	ORDER NO.
3.	WELL TYPE <i>01</i>	WELL CATEGORY <i>01</i>	JOB PURPOSE <i>035</i>	<i>5 1/2 Longstreng</i>	WELL PERMIT NO.	WELL LOCATION <i>N. R...</i>	
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

RECEIVED  
 STATE CORPORATION  
 SEP 03 1993  
 CONSERVATION  
 Wichita, Kansas

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOG	ACCT	DF				U/M		
<i>000-117</i>						MILEAGE	<i>30</i>	<i>mi</i>	<i>2.75</i>	<i>82.50</i>
<i>001-016</i>						Pump Charge	<i>2635</i>	<i>FT</i>		<i>1225.00</i>
<i>12 A</i>	<i>825-205</i>					Guide shoe	<i>1</i>	<i>EA</i>		<i>121.00</i>
<i>24 A</i>	<i>815-19251</i>					insert float	<i>1</i>	<i>EA</i>		<i>116.00</i>
<i>27</i>	<i>815-19311</i>					Fill Assy	<i>1</i>	<i>EA</i>		<i>55.00</i>
<i>40</i>	<i>807-93022</i>					Centrifizers	<i>5</i>	<i>EA</i>	<i>44.00</i>	<i>220.00</i>
<i>350</i>	<i>890-10802</i>					Weld A	<i>1</i>	<i>116</i>		<i>14.50</i>
	<i>030-016</i>					Top Plug	<i>1</i>	<i>EA</i>		<i>60.00</i>

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE  
**X**

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_  A.M.  P.M.

do  do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <i>1888</i>	FROM CONTINUATION PAGE(S) <i>5022</i>	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <i>6910</i>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?							
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?							
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?							
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?						
TREE CONNECTION	TYPE VALVE		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO						
			<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <b>X</b>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>Richard J. ...</i>	HALLIBURTON OPERATOR/ENGINEER <i>D4133</i>	EMP #	HALLIBURTON APPROVAL
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## TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

**A. CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

**B. PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

**C. RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

**D. EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

**E. LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole 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, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting data furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, 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 GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

**F. GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

**G. WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

**H. MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



**HALLIBURTON**  
ENERGY SERVICES

**TICKET CONTINUATION**

TICKET No. 502220

FORM 1911 R-8

CUSTOMER <b>Cheyenne Drlg. (Amoco)</b>	WELL <b>Evans "B" 2 HI</b>	DATE <b>7-25-93</b>	PAGE	OF
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ORIGINAL

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT PRICE	AMOUNT	
		LOG	ACCT	DF			QTY.	U/M			
504-050	516.00265					Premium Plus Cement	150	sk			1,345.50
504-120						Halliburton Light Cement	300	sk			418.00
504-050	516.00265										
506-105	516.00286										
506-121	516.00259										
8	890.50071					Flocele B/ <del>1</del> 3/4 W/ 450	113	lb	1.40		158.20
500-207						SERVICE CHARGE					
500-306						MILEAGE CHARGE					
						TOTAL WEIGHT					
						LOADED MILES					
						TON MILES					

RECEIVED  
STATE CORPORATION  
SEP 20 1993  
CONSERVATION DIVISION  
Wichita, Kansas

75  
38

CONTINUATION TOTAL 5022.16

**JOB LOG** FORM 2013 R-3

CUSTOMER: *Ames Production* LEASE: *Evans G. "B"* JOB TYPE: *5 1/2 Longstem*  
 CONSERVATION DIVISION: *2 H I* TICKET NO.: *507320*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS C	PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
					TUBING	CASING	
	07:00						Called out
	07:00						On location Rig 4 1/2 Pipe
	12:30						Start casing Run float equipment
	13:15						Casing on bottom, Drop Ball
	13:20						breakup iron, rig circulating
	13:40						breakup iron, Co Tek.
	13:43	5	20	X	120		Start water ahead
	13:48	5	145	X	120		Start lead cement
	14:05	5	35	X	75		Start Tail Cement
	14:13						Shut down, wash pumps & lines
	14:13						Drop plug
	14:17	5	40	X	50		Start water displacement
	14:25	5	115	X	500		Cement Circulated to surface
	14:28	3	10	X	650		Slowed rate
	14:30				700		plug landed
	14:30				1200		pressured up
	14:31						released pressure, float held
	14:45						Job Complete
							Thanks for Calling Halliburton Richard & Fred
							Slurry, Circulated = 20.5 BBLs ±
							Plug landing P.S.I. = 700 #
							Average P.S.I. { Head Cat = 120 # Tail Cat = 538 # Displ = #
							Average Rate { Head Cat = 5 BPM Tail Cat = 8 BPM Displ = 4.5 BPM

**JOB SUMMARY**

HALLIBURTON DIVISION Midcontinent  
HALLIBURTON LOCATION Liberal K

BILLED ON TICKET NO. 507380

**WELL DATA**

FIELD N. Rella K SEC. 15 TWP. 32 RING. 40 W COUNTY Martin STATE KO

**ORIGINAL**

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	<u>N</u>	<u>155</u>	<u>5 1/2</u>	<u>K.B.</u>	<u>2638</u>	
LINER						
TUBING	<u>U</u>	<u>24</u>	<u>8 5/8</u>	<u>K.B.</u>	<u>528</u>	
OPEN HOLE			<u>1 1/8</u>	<u>528</u>	<u>2435</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-25-93</u>	DATE <u>7-25-93</u>	DATE <u>7-25-93</u>	DATE <u>7-25-93</u>
TIME <u>07:00</u>	TIME <u>10:00</u>	TIME <u>12:30</u>	TIME <u>14:45</u>

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>Invert Float</u>	<u>1 EA</u>	<u>Howco</u>
GUIDE SHOE	<u>1 EA</u>	
CENTRALIZERS	<u>5 EA</u>	
BOTTOM PLUG <u>Fill Assy</u>	<u>1 EA</u>	
TOP PLUG	<u>1 EA</u>	
HEAD	<u>1 EA</u>	
PACKER		
OTHER <u>Weld H</u>	<u>1 lb</u>	

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>R Taylor</u>	<u>D 4033</u>	<u>Liberal K</u>
<u>L Williams</u>	<u>52931</u>	<u>Liberal K</u>
<u>C 9591</u>	<u>8408</u>	<u>Liberal K</u>
<u>D Mc Intyre</u>	<u>52920</u>	<u>Hugoton K</u>
<u>D 9704</u>	<u>5303</u>	<u>Hugoton K</u>
<u>M Howe</u>	<u>1449</u>	<u>Hugoton K</u>
<u>F 7343</u>	<u>7620</u>	<u>Hugoton K</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 Cement  
DESCRIPTION OF JOB 5 1/2 Production Casing  
JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE X  
HALLIBURTON OPERATOR R Taylor COPIES REQUESTED 2

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>300</u>	<u>H/C</u>	<u>C</u>	<u>B</u>	<u>1/4 Flocc</u>	<u>2.06</u>	<u>12.3</u>
	<u>150</u>	<u>P Plus</u>	<u>C</u>	<u>B</u>	<u>1/4 Flocc</u>	<u>1.32</u>	<u>14.8</u>

**PRESSURES IN PSI**

**SUMMARY**

**VOLUMES**

CIRCULATING \_\_\_\_\_ DISPLACEMENT 115 PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. (62)  
SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 145 BBLs  
HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. 207 BBLs  
ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ AVERAGE RATES IN BPM \_\_\_\_\_  
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
FEET 41.20 REASON Shoe Joint

**RAMARKS**

See Job Log

CUSTOMER Anglo Production  
LEASE Curve Well "B"  
WELL NO. 2 HT  
JOB TYPE 5 1/2 Long Joint  
DATE 7-25-93