

FORM MUST BE TYPED

SIDE ONE

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

ORIGINAL

API No. 15 129-21239 0000  
County Morton

SE - NW - NW Sec. 17 Twp. 32S Rge. 40 W East West  
1250 Foot from S/O (circle one) Line of Section  
1250 Foot from E/O (circle one) Line of Section

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

Operator: License # 5952  
Name: Amoco Production Company  
Address P O Box 800  
Room 925  
City/State/Zip Denver, Co 80201

Lease Name Bear GU /B/ Well # 3HI  
Field Name Hugoton

Purchaser: \_\_\_\_\_  
Operator Contact Person: Ellen Hartzler  
Phone (303) 830-5130

Producing Formation Chase  
Elevation: Ground 3332' KB 3343'  
Total Depth 2511' PBTD 2509'

Contractor: Name: Cheyenne Drilling  
License: 5832  
Wellsite Geologist: None

Amount of Surface Pipe Set and Cemented at 583 557 <sup>KCC</sup> <sub>122</sub> Foot  
Multiple Stage Cementing Collar Used? Yes  No   
If yes, how depth set \_\_\_\_\_ Feet

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 Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

If Workover/Re-entry: old well info as follows:

Drilling Fluid Management Plan ALTERNATE 1 NOT MET 8-19-94 JH  
(Data must be collected from the Reserve Pit) STEVE D. SAID TO LET GO

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
 Deepening  Re-perf.  Conn. to Inj/SWD  
 Plug Back  \_\_\_\_\_  
 Commingled Docket No. \_\_\_\_\_  
 Dual Completion Docket No. \_\_\_\_\_  
 Other (SWD or Inj?) Docket No. \_\_\_\_\_

Chloride content 5800 ppm Fluid Volume 2140 bbls  
Dewatering method used dried and filled  
Location of fluid disposal if hauled offsite: \_\_\_\_\_

10-26-93 10-28-93 11-24-93  
Spud Date Date Reached TD Completion Date

Operator Name \_\_\_\_\_  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
Quarter Sec \_\_\_\_\_ Twp. \_\_\_\_\_ S. Rng. \_\_\_\_\_ E/W \_\_\_\_\_  
County \_\_\_\_\_ Docket No. \_\_\_\_\_

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 a geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-1 form with all production wells. Submit CP-111 form with all temporarily abandoned wells.

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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. MAY 12 1994

Signature Ellen Hartzler  
Title Sr. Staff Assistant Date April 25, 1994  
Subscribed and sworn to before me this 22nd day of APRIL, 1994  
Notary Public [Signature]  
My Commission Expires August 02, 1994

K.C.C. OFFICE USE ONLY  
F  Letter of confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
Distribution  
KCC  SWD/Rep  NGPA  
SGS  Plug  Other  
(Specify)

Operator Name Amoco Production Company Lease Name Bear GU /B/ Well # 3HI  
 County Morton  
 Sec. 17 Twp. 3d 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  Name Top Datum Herrington 2218 KB Krider 2232 Winfield 2284 Towanda 2350 Ft. Riley 2410
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	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
List All E. Logs Run:	<u>SPECTRAL GAMMA</u>	

CASING RECORD  New  Used  
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (Ih O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24#	<del>557</del> 583	Class C	300	2% CaCl <sub>2</sub> ; 75 lbs. Flocele
Production	7 7/8"	5 1/2"	15.5#	2511	Class C	400	100 lbs Flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
4	2218-2262'	2284-2298;	Frac - 245,100# 10/20 COSI Sand	2218-2440
	2350-2360;	2410-2440;	& 53,802 gal. G-3190	

TUBING RECORD N/A Size        Set At        Packer At        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 250 Mcf Water        Bbls. Gas-Oil Ratio        Gravity       

Disposition of Gas:  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Other (Specify)       

METHOD OF COMPLETION  Other (Specify)       

Production Interval 2218-2440

(If vented, submit ACO-18)

ORIGINAL

N.L.S. INC.  
P.O. BOX 1417  
LIBERAL, KANSAS  
316-624-4581

FAX. NO: 316.624-6919  
800-633-9860  
NATION WIDE:

TEMPERTURE SURVEY

DATE OCTOBER 29, 1993

API#15-129-21239

COMPANY: AMOCO LOCATION: SEC. 17-32S-40W  
LEASE: BEAR G.U. "B" WELL #: 3-HI  
COUNTY: MORTON FIELD: HUGOTON  
STATE: KANSAS INSTR. NO: 35594  
  
CASING SIZE: 5 1/2" 15.5 SET AT: 2511'  
T.D.: 2,512' HOLE SIZE: 7 7/8"  
FLOAT AT: 2510 SHOE

SACKS CEMENT: 300 HEAD 100 TAIL

CALCULATED  
FILL UP:  
ZERO POINT: G.L.

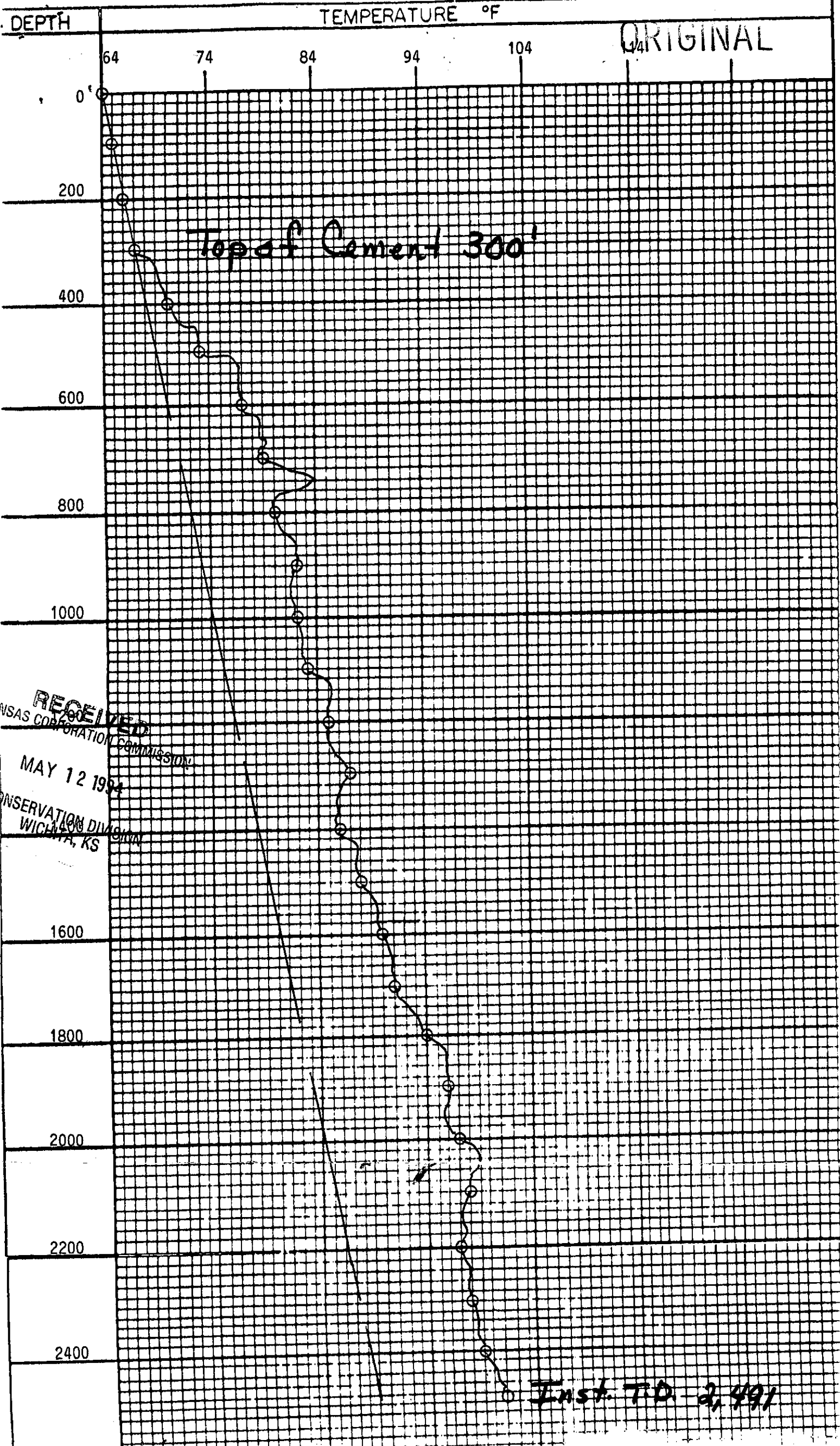
MIXTURE: 50-50 POZ-MIX

REMARKS: TOP OF CEMENT: 300'  
INSTRUMENT T.D. 2,491'  
INSTRUMENT ZERO: 4" A.G.L.

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WICHITA, KS



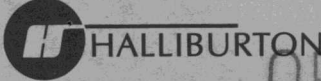


**JOB LOG FORM 2013 R-4**

CUSTOMER Amoco Production	WELL NO. 2HI	LEASE BEAR "B" GU.	JOB TYPE 5 1/2 LONG STRING	TICKET NO. 648026
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0300							called out ready 0700
	0700							on loc. still d.l.g.r.
	1145							START RUNNING CSG.
	1245							Hook up HEAD to CIRCULATE
	1308							CIRCULATION TO PIT SAFETY MEETING
	1315							Hook up to CMT LINE
	1318	6	110				120/230	START LEAD CMT. 12.3" GAL
	1336	4	23.5				130	START TAIL CMT. 14.8" GAL
	1342	0	0				0	SHUT DOWN TOP PLUG DROPPED
	1347	5	50				0/500	START DISPLACEMENT H <sub>2</sub> O
	1357	2	60				500/130	SLOW RATE DOWN 60 TOTAL
	1400	0					700/1300	PLUG LANDED - FLOAT HELD
								Job OVER
								THANKS FOR CALLING
								HALLIBURTON ENERGY SERVICES
								LIBERAL KS.
								AVG LEAD RATE 6
								AVG TAIL RATE 4
								AVG LEAD PRESSURE 200
								AVG TAIL PRESSURE 130
								AVG DISPLACEMENT RATE 3.5
								AVG DISPLACEMENT PRESSURE 600
								CMT. TO PIT NONE

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 WICHITA, KS



# JOB SUMMARY

## ORIGINAL

HALLIBURTON DIVISION  
HALLIBURTON LOCATIONMID CONTINENT AREA  
LIBERAL KS

BILLED ON TICKET NO. 648026

CUSTOMER AMOCO PRODUCTION  
LEASE BEAR "B" G.U.  
WELL NO. 2HI  
JOB TYPE 5 1/2 LONG STRING  
DATE 10-28-93

### WELL DATA

FIELD \_\_\_\_\_ SEC. 17 TWP. 32 RNG. 40 COUNTY MORTON 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	15.5	5 1/2	KB.	2510	
LINER	U	24	8 3/8	GL.	583	
TUBING						
OPEN HOLE			7 7/8	583	2511	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

### JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 10-28-93	DATE 10-28-93	DATE 10-28-93	DATE 11-28-93
TIME 0300	TIME 0700	TIME 1318	TIME 1430

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		H
FLOAT SHOE		
GUIDE SHOE <u>SS II FLOAT 5 1/2</u>	<u>1</u>	<u>0</u>
CENTRALIZERS <u>S-4</u>	<u>5</u>	
BOTTOM PLUG		W
TOP PLUG <u>5-W ALUM.</u>	<u>1</u>	
HEAD <u>Howco WELD A 1LB</u>	<u>1</u>	C
PACKER		
OTHER		0

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
BROADFOOT	4604	LIBERAL KS.
WILLIAMS	52938	"
	8408	"
MINTYRE	52827	HUGOTON KS.
	5303	"
GARRISON	3625	"
	6612	"

### 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 LONG STRING  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Jim Broadfoot COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIONS	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	300	PREM PLUS LT.			1/4" FLOCELE	2.06	12.3
1	100	PREM. PLUS			1/4" FLOCELE	1.32	14.8

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### PRESSURES IN PSI

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 \_\_\_\_\_

### SUMMARY

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 60  
 CEMENT SLURRY: BBL.-GAL. 110-23.5  
 TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

### REMARKS

no CNT T. SURFACE



**HALLIBURTON**  
ENERGY SERVICES

TICKET CONTINUATION

COPY

TICKET No. 648026

FORM 1911 R-8

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WELL				DATE	PAGE OF			
		LOC	ACCT			QTY.	U/M	QTY.	U/M			UNIT PRICE	AMOUNT	
504-050	516.00265				Premium Plus Cement			100	sk			10-20-93	2	2
504-120	516.00265				Premium Plus Cement			300	sk					
506-105	516.00286													
506-121	516.00259													
507-210	890.50071				Flocate 1/4"/400sk			100	lb					
500-207														
500-306														
					SERVICE CHARGE									
					MILEAGE CHARGE									
					TOTAL WEIGHT			37	166					
					LOADED MILES			20						
					CUBIC FEET			407						
					TON MILES			371	66					
										1	35			5491.45
											95			353.07
					CONTINUATION TOTAL									1917.55

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WICHITA, KS





# HALLIBURTON

## HALLIBURTON ENERGY SERVICES

FORM 1906 1-13

CHARGE TO:

COPY

TICKET

No.

648026 - 5

ADDRESS: Arco Production  
CITY, STATE, ZIP CODE: 2225 W OKLA AVE

LEASE: Arco Production  
CONTRACTOR: Arco Production  
RIG NAME/NO.: Arco Production

DATE: 10-28-93  
ORDER NO.: PRD.

1. ARCO KS  
2. HUSTON KS  
3. WELL TYPE

WELL/PROJECT NO.: 2225  
TICKET TYPE:  NITROGEN SERVICE JOB?  YES  NO  
SALES:  YES  NO  
WELL CATEGORY: 01

STATE: KS  
CITY/OFFSHORE LOCATION: LOCATION

DELIVERED TO: LOCATION  
WELL PERMIT NO.: 035  
WELL LOCATION: 035

4. REFERRAL LOCATION: 02  
INVOICE INSTRUCTIONS: 035

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT								
000-117											
001-016				PUMP CHARGE		20	TR	1	UNIT	2.75	55
030-016				5M Alum TOO PLUG		25	TR	1	HR	1345	60
5A	837-01100			SS II FLOAT SHOE		5 1/2	IN	1	EA		225
40	827-93022			S-4 CENTRALIZERS		1	EA	1	EA		220
350	890-10802			HOUSE WELD "A"		1	EA	1	EA		14.50

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WICHITA, KS

**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: \_\_\_\_\_

DATE SIGNED: 10-28-93 TIME SIGNED: 1400 A.M.  P.M.

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

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO

WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

**PAGE TOTAL** 1919 50

**FROM CONTINUATION PAGE(S)** 4427 52

**SUB-TOTAL** 6347 02

APPLICABLE TAXES WILL BE ADDED ON INVOICE

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): SAM CARMACK

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): \_\_\_\_\_

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): SAM CARMACK

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): \_\_\_\_\_

HALLIBURTON OPERATOR/ENGINEER: \_\_\_\_\_

EMP # 3970

HALLIBURTON APPROVAL: \_\_\_\_\_

387168

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 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 UNSEAWORDINESS 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 veritable 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.



**JOB LOG FORM 2013 R-4**

 CUSTOMER **Amoco Prod.** WELL NO. **3 HI** LEASE **Beac GU** JOB TYPE **8 5/8 SURFACE** TICKET NO. **549351**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1620							Time Called
	1900							Time Ready
	1900							Time out
								Run PULL OUT OF HOLE
	1945							START Pump Casing
	2119							Casing in hole
	2120							Hook up To Graduate Casing
	2130							Graduate Casing where Pump
	2132							Graduate Mud To Grand back
	2143							Hook up To Pump TRUCK
	2148	6.2				200		START Mix Cement
	2153		514.76			200		Start Tail Cement
	2158	6	35.26			250		Finish Mix Cement
	2159		90.02			250		Shut Down
								Deep Plug
	2200	5				75		Start Displacement
		3.4	34.65					Wash Pump's & Lines
	2210					250		Plug Down
								Shut in Head & Manifold
								Graduate Cement To The PT 11 <sup>1316</sup> 30 <sup>SE</sup>
								Thanks For Calling Halliburton

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*D. [Signature]*

**WELL DATA**

FIELD \_\_\_\_\_ SEC. *17* TWP. *32<sup>S</sup>* RNG. *40<sup>W</sup>* COUNTY *Montez* 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		<i>214</i>	<i>8 7/8</i>	<i>LRB</i>	<i>568</i>	
LINER						
TUBING						
OPEN HOLE			<i>12 1/4</i>	<i>GL</i>	<i>568</i>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

TOOLS AND ACCESSORIES		CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
TYPE AND SIZE	QTY.	DATE	DATE	DATE	DATE
MAKE		TIME	TIME	TIME	TIME
FLOAT COLLAR <i>Baffle Plate</i>	<i>1</i>	<i>10-26</i>	<i>10-26</i>	<i>16-26</i>	<i>10-26</i>
MAKE					
<i>Howco</i>		<i>1620</i>	<i>1900</i>	<i>2119</i>	<i>2210</i>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<i>D. Carr</i>	<i>40075</i>	<i>Liberal Ks</i>
	<i>59179</i>	<i>Ks</i>
<i>D. Preece</i>	<i>4903</i>	<i>"</i>
	<i>57106</i>	<i>78148</i>
<i>M. Howe</i>	<i>3626</i>	<i>Horton Ks</i>
	<i>F7343</i>	<i>4734</i>

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
<i>8 7/8</i>		
FLOAT COLLAR <i>Baffle Plate</i>	<i>1</i>	<i>Howco</i>
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS	<i>3</i>	
BOTTOM PLUG		
TOP PLUG	<i>1</i>	
HEAD	<i>1</i>	
PACKER		
OTHER <i>Howco Wida</i>	<i>1 LRB</i>	

**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 *8 7/8 Surface*

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

CUSTOMER REPRESENTATIVE *X*

HALLIBURTON OPERATOR *Olsen*

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**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>150</i>	<i>Prem Plus</i>	<i>LTWT</i>		<i>2% CC 1/4 # Floccide</i>	<i>2.05</i>	<i>12.3</i>
	<i>150</i>	<i>Prem Plus</i>			<i>2% CC 1/4 # Floccide</i>	<i>1.32</i>	<i>14.8</i>

**PRESSURES IN PSI**

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

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. *34.65*

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. *90.02*

**HYDRAULIC HORSEPOWER**

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

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

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

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

FEET *42 #* REASON *See Job*

**RAMARKS**

CUSTOMER *Amoco Production*

LEASE *Beare*

WELL NO. *3 KE*

JOB TYPE *8 7/8 Surface*

DATE *10-26-93*

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HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

COPY

TICKET No. 549351

FORM 1911-R-9

CUSTOMER Amoco Production

WELL Bear G.U. #3HI

DATE 10-26-93

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT
		LOC	ACCT			QTY.	U/M	QTY.	U/M		
504-0950	516.00265				Premium Plus Cement	150	sk			91.22	13831.00
504-120					Halliburton Light Cement	150	sk			8.21	1231.50
504-050	516.00265										
506-105	516.00286										
506-121	516.00259										
507-210	890.50071				Floccale 4#W/ 300	75	lb			1.40	1051.00
509-406	890.50812				Calcium chloride 2#W/ 300	6	sk			281.25	1691.50
500-207					SERVICE CHARGE					1.35	427.95
500-306					MILEAGE CHARGE					95	351.83
					TOTAL WEIGHT	28488					
					LOADED MILES	26					
					CUBIC FEET	317					
					TON MILES	370.344					
CONTINUATION TOTAL											3668.78

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HALLIBURTON ENERGY SERVICES

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

TICKET No. 549351 - 0

FORM 1908 R-12

CITY, STATE, ZIP CODE

PAGE 1 OF 2

1. SERVICE LOCATIONS	25540	WELL/PROJECT NO.	3712	LEASE	Beane	COUNTY/PARISH	Wagon	STATE	KS	CITY/OFFSHORE LOCATION		DATE	10-26-94	OWNER	Amco
2.		TICKET TYPE	<input checked="" type="checkbox"/> SERVICE JOB	CONTRACTOR		RIG NAME		SHIPPED VIA	TRUCK	DELIVERED TO		ORDER NO.	10-26-94		
3.		<input type="checkbox"/> SALES	<input checked="" type="checkbox"/> NO	WELL CATEGORY		JOB PURPOSE	Change DLS	WELL PERMIT NO.	ABC	WELL LOCATION					
4. REFERRAL LOCATION		INVOICE INSTRUCTIONS: 02 03 OLD 8 3/8 SUDENCE													

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT DF	TIME	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000-117				MILEAGE	26	Miles	1	FT	2.75	71.00
001-016				Pump charge	1	FT	1	FT	130.00	130.00
0030-016				Sub top RO	1	FT	1	FT	145.00	145.00
597	825-1269			Rate	1	FT	1	FT	72.00	72.00
410	807-93059			Centralizers	3	FT	3	FT	216.00	216.00
350	890-10802			House hold X	1	FT	1	FT	14.50	14.50

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WICHITA, KS

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

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: \_\_\_\_\_

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_

do  do not require IPC (Instrument Protection)  Not offered

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) \_\_\_\_\_

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) \_\_\_\_\_

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

EMP # 59179

HALLIBURTON OPERATOR/ENGINEER \_\_\_\_\_

HALLIBURTON APPROVAL \_\_\_\_\_

DATE 10/26/94

AMOUNT 4970.78

3032.18

**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; SURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

**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. (0593)