

ORIGINAL

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

API No. 15 - 129-21236-21, 23/-0000  
County Morton  
SW - NE - NE Sec. 16 Twp. 32S Rge. 40 X East West  
4030 Feet from S/N (circle one) Line of Section  
1250 Feet from EW (circle one) Line of Section

Operator: License # 5952  
Name: Amoco Production Company  
Address PO Box 800 Room 924  
Denver, CO 80201  
Purchaser: Williams Natural Gas  
Operator Contact Person: Susan R. Potts  
Phone 303-830-5323  
Contractor: Name: Cheyenne Drilling  
License: 5382  
Wellsite Geologist: N/A

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 \_\_\_\_\_ PSTD  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
10-17-93 10-20-93 12-1-93  
Spud Date Date Reached TD Completion Date

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW, or SW (circle one)  
Lease Name H.F. Sutton /A/ Well # 3HI  
Field Name Hugoton  
Producing Formation Chase  
Elevation: Ground 3325.5' KB 3336'  
Total Depth 2504' PSTD 2502'  
Amount of Surface Pipe Set and Cemented at 539 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 ALT 1 JH 1-7-97  
(Data 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 RECEIVED License No. \_\_\_\_\_  
KANSAS CORPORATION COMMISSION  
Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S.Rng. \_\_\_\_\_ E/W  
County JUL 24 1995 Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Conservation 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 Susan R. Potts  
Title Sr. Staff Asst. Date July 14, 1995  
Subscribed and sworn to before me this 14th day of July, 1995  
Notary Public: [Signature]  
Data Commission Expires January 4 1997

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

1070 BROADWAY  
DENVER, CO 80201

SIDE TWO

Operator Name Amoco Production Company Lease Name H. F. Sutton /A/ Well # 3HI  
 County Morton  
 Sec. 16 Twp. 32S 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  Yes  No (Attach Additional Sheets.)  Log Formation (Top), Depth and Datums  Sample

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No (Submit Copy.)

List All E. Logs Run: Compensated Spectral Natural Gamma Collar

Name	Top	Datum
Ogallala Base	662'	KB
Chase Top	2177'	
Council Grove Top	2504'	

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	12.25"	8 5/8"	24	539	Premium Plus	150	2%CC, 1/4# Flocele
Production	7 7/8"	5.5"	14	2504	Halliburton Lite	150	2%CC, 1/4# Flocele
					Premium Plus	150	2%CC, 1/4# Flocele
					Halliburton Lite	350	2%CC, 1/4# Flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: — Perforate — Protect Casing — Plug Back TD — Plug Off Zone	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
	4	2210-2218'; 2224-2240'; 2342-2360';	2390-2420'	FRAC w/245,000# 10/20 Brady	
			x-link		

TUBING RECORD Size 2 3/8" Set At 2436' Packer At 2436' Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj 4/21/94 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf 200 MCF/D Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:  Vented  Sold  Used on Lease

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)

Production Interval 2210-2420'

(If vented, submit ACO-18)

**JOB LOG** FORM 2013 R-4

<b>CUSTOMER</b> Aimoco Prod	<b>WELL NO.</b> 2 HI	<b>LEASE</b> HF SUTTON AGU	<b>JOB TYPE</b> 8 5/8 Surface	<b>TICKET NO.</b> 549155
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1630							colled out
	1900							on location Rig up Safety meeting Discuss job with
	2010							Circulate with Rig
	2026	6	55		✓		150	START Lead cement
	2034	6	35.2		✓		150	START Tail cement
	2038							Release Plug
	2039	6	31.5		✓		250	Dis Place Plug
	2048	1			✓		400	Land plug
								Circulated 20 BBL cement

**RECEIVED**  
 KANSAS CORPORATION COMMISSION  
 JUL 24 1995  
 CONSERVATION DIVISION  
 WICHITA, KS

**WELL DATA**

FIELD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_ COUNTY Hugoton 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	8518	KB	539	500
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10/16/93</u>	DATE <u>10/16/93</u>	DATE <u>10/16/93</u>	DATE <u>10/16/93</u>
TIME <u>16:30</u>	TIME <u>19:00</u>	TIME <u>20:26</u>	TIME <u>20:48</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>O Nicholas</u>	<u>37458</u>	<u>Liberal</u>
<u>W FOX</u>	<u>4903</u>	<u>11</u>
<u>D 4437</u>	<u>7848</u>	<u>11</u>
<u>McTATYRE</u>	<u>52926</u>	<u>Hugoton</u>
	<u>5203</u>	

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Buffin Pilot</u>	<u>1</u>	<u>H</u>
FLOAT SHOE		
GUIDE SHOE		<u>O</u>
CENTRALIZERS <u>54</u>	<u>3</u>	<u>W</u>
BOTTOM PLUG		
TOP PLUG <u>5W</u>	<u>1</u>	<u>C</u>
HEAD		
PACKER		
OTHER		

**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. \_\_\_\_\_

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

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

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

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

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

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

PERFPAC BALLS TYPE \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

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JUL 24 1995  
CONSERVATION DIVISION  
WICHITA, KS

DEPARTMENT Cement

DESCRIPTION OF JOB \_\_\_\_\_

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

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR O Nicholas COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>150</u>				<u>290cc 1/4" Floccle</u>	<u>2106</u>	<u>12.3</u>
	<u>150</u>				<u>290cc 1/4" Floccle</u>	<u>1122</u>	<u>14.8</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. 315

CEMENT SLURRY: BBL.-GAL. 902

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

**REMARKS**

Load Plug and close in

CUSTOMER: Amoco Production  
 LEASE: Hugoton  
 WELL NO.: 2 HI  
 JOB TYPE: 99's Surface  
 DATE: 10-16-93



**HALLIBURTON**  
ENERGY SERVICES

**TICKET CONTINUATION**

TICKET No. 549155

FORM 1911 R-8

CUSTOMER Amoco Production	WELL H.F. Sutton	DATE 10-16-93	PAGE	OF
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
504-050	516.00265					Premium Plus Cement	150	sk			9 221383	1383 00
504-120						Halliburton Light Cement	120	sk			8 21	1231 50
504-050	516.00265											
506-105	516.00286											
506-121	516.00259											
<del>890-50071</del>	890.50071					Flocele 1/4"/300sks	75	lb			1 40	105 00
509-406	890.50812					Calcium Chloride 2%/300sks	6	sk			28 25	169 50
500-207						SERVICE CHARGE					1 35	227 95
500-306						MILEAGE CHARGE						
						TOTAL WEIGHT	28,442					
						LOADED MILES	20					
						CUBIC FEET	317					
						TON MILES		284.42			95	270.20

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RECEIVED  
KANSAS CORPORATION COMMISSION  
JUL 24 1995  
CONSERVATION DIVISION  
WICHITA, KS

CONTINUATION TOTAL 368715



CHARGE TO: Amoco Productions

ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP CODE: \_\_\_\_\_

COPY

TICKET

No.

549155 - 2

PAGE 1 OF

FORM 1906 R-12

1. <u>Liberal</u>	WELL/PROJECT NO. <u>2 HT</u>	LEASE <u>H F SUTTON A</u>	COUNTY/PARISH <u>MIAMI</u>	STATE <u>FL</u>	CITY/OFFSHORE LOCATION	DATE <u>10/16/95</u>	OWNER
2. <u>Higley</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.
3.	WELL TYPE <u>D2</u>	WELL CATEGORY <u>D1</u>	JOB PURPOSE <u>DIC</u>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACGT	DF								
<u>501-117</u>						MILEAGE	<u>70</u>	<u>1/16</u>			<u>2.75</u>	<u>192.50</u>
<u>001-016</u>						Pump Change	<u>539</u>	<u>FT</u>				<u>(50) 825.00</u>
<u>030-016</u>						5 w plug	<u>1</u>	<u>EA</u>	<u>89.00</u>			<u>120.00</u>
<u>5-97</u>	<u>825-1269</u>					Buffer Pkts	<u>1</u>	<u>EA</u>	<u>45.00</u>			<u>45.00</u>
<u>40</u>	<u>807-93059</u>					Control valves	<u>3</u>	<u>EA</u>	<u>72.00</u>			<u>216.00</u>
<u>350</u>	<u>890-10802</u>					lock A	<u>1</u>	<u>EA</u>				<u>14.50</u>

ORIGINAL

RECEIVED  
CONSERVATION DIVISION  
W/HTA KS  
JUL 24 1995

<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>1413.00</u>  FROM CONTINUATION PAGE(S) <u>3657.15</u>  SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <u>5100.15</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>Orville Anderson</u>	<u>41525</u>	<u>W/39%</u>

3111.09

*disc*

## 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.

**JOB LOG FORM 2013 R-4**

CUSTOMER <b>Amoco</b>	WELL NO. <b>3 HE</b>	LEASE <b>H.F. SUTTAN "A"</b>	JOB TYPE <b>5 1/2 LONG STRING</b>	TICKET NO. <b>548943</b>
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	17:30							CALLED OUT
	20:30							ON LOC. Rtg. CIRCULATING
	21:00							START LAYING DOWN D.P.
	22:00							SAFETY MEET ATT: BY HALBURTON CIRC. BY SAIN, JACK R. D. P. A.
	23:45							START CASING
	01:00							START HOOKING UP TO CIRCULATE L/Rtg
	01:20							START HOOK UP TO PUMP TANK
	01:27	6 BPM	123.1			250		START LEAD CEMENT 350 SK "C" LEAD
	01:40	6:0 BPM	22.5			250		START TAIL CEMENT 100 SK "C"
	01:55	6:0 BPM				100		START Displacement w/ FRESH H <sub>2</sub> O
	02:15		59.6			750		PLUG DOWN
								80.6 SK
								SLURRY CIRCULATED = 29.6 PPS
								PLUG LAYING P.S.I = 250
								LEAD CMT = 6.7 2 PM
								TAIL CMT = 4.7 3 PM
								Disp 5.9 0.8 PM
								OVERALL = 5.76 D.P.A
								LEAD CMT = 250
								TAIL CMT = 250
								DISP = 400
								OVERALL
								THANK YOU FOR CALLING HALLIBURTON
								Tim E. Casul

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WICHITA, KS

Average RATE  
Average P.S.I



**WELL DATA**

FIELD MORTAN SEC. 16 TWP. 22S RING. 40W COUNTY MORTAN 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 CHEM MUD WT. 9.9  
 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>19.50</u>	<u>5 1/2</u>	<u>R.B.</u>	<u>DEAD</u>	<u>1,500</u>
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>6.6</u>	<u>2504</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		<u>H<sub>2</sub></u>
FLOAT SHOE <u>S.S. H. W/FILL</u>	<u>1</u>	<u>W</u>
GUIDE SHOE		<u>C</u>
CENTRALIZERS <u>S-4</u>	<u>5</u>	<u>W</u>
BOTTOM PLUG		<u>H</u>
TOP PLUG <u>S. WEPER</u>	<u>1</u>	<u>W</u>
HEAD <u>QCPC</u>	<u>1</u>	<u>W</u>
PACKER		<u>C</u>
OTHER <u>Hansen Wedge "H"</u>	<u>1</u>	<u>W</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-18-93</u> TIME <u>17:30</u>	DATE <u>10-18-93</u> TIME <u>20:30</u>	DATE <u>10-17-93</u> TIME <u>01:00</u>	DATE <u>10-18-93</u> TIME <u>02:15</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Beharwan</u>	<u>40076</u>	<u>LIBERAL Ks</u>
<u>R. Elwood</u>	<u>87248</u>	<u>P.W.</u>
<u>M. Howe</u>	<u>121360</u>	<u>75374 (D)</u>
<u>N. Tarr</u>	<u>F2343</u>	<u>36210</u>
<u>E. Osler</u>	<u>7649 (B)</u>	<u>51984</u>
	<u>75811 (D)</u>	<u>711</u>

**ORIGINAL**

DEPARTMENT Cement  
 DESCRIPTION OF JOB 5 1/2" Long Spacing

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

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Tom Beharwan COPIES REQUESTED \_\_\_\_\_

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**CONSERVATION DIVISION WICHITA, KS CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>350</u>	<u>"C" LF WT</u>		<u>B</u>	<u>1/4 #/sk Floccle</u>	<u>2.06</u>	<u>12.3</u>
	<u>100</u>	<u>"C"</u>		<u>B</u>	<u>1/4 #/sk Floccle</u>	<u>6.3</u>	<u>14.8</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. 15966  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 128.41 + 23.5  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ **RAMARKS** \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET \_\_\_\_\_ REASON \_\_\_\_\_

CUSTOMER Amoco  
 LEASE H.E. SUTTON 'A'  
 WELL NO. 311E  
 JOB TYPE 5 1/2" Long Spacing  
 DATE 10-18-93



**HALLIBURTON**  
ENERGY SERVICES

**TICKET CONTINUATION**

TICKET No. **548943**

FORM 1911 R-8

CUSTOMER **Amoco Production** WELL **H.F. Sutton A 3HI** DATE **10-18-93** PAGE **2** OF **2**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT		
		LOG	ACCT	DF										
504-050	516.00265					Premium Plus Cement	150	sk			9.22	1383.00		
504-120						Halliburton Light Cement	350	sk			8.231	2373.50		
504-050	<del>516.00265</del>													
504- <del>050</del> 6 105	516.00286													
506-121	516.00259													
507-210	890.50071					Flocele HW/ 500	125	lb			1.40	175.00		
<b>ORIGINAL</b>														
<p><b>RECEIVED</b> KANSAS CORPORATION COMMISSION   <b>JUL 24 1995</b>             CONSERVATION DIVISION WICHITA, KS</p>														
500-207						SERVICE CHARGE	CUBIC FEET		358		1.35	483.30		
500-306						MILEAGE CHARGE	TOTAL WEIGHT	46502	LOADED MILES	24	TON MILES	558.024	95	530.12

CONTINUATION TOTAL **4,944.92**



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

COPY

TICKET

No.

548943-X

PAGE 1 OF 2

FORM 1906 R-12

SERVICE LOCATIONS 1. <u>025540</u>	WELL/PROJECT NO. <u>3 H E</u>	LEASE <u>H. E. SUTTON 'A'</u>	COUNTY/PARISH <u>Moreau</u>	STATE <u>LA</u>	CITY/OFFSHORE LOCATION	DATE <u>10-18-93</u>	OWNER <u>SAME</u>
2. <u>025535</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>CLEVELAND DRILL</u>	RIG NAME/NO. <u>2</u>	SHIPPED VIA <u>Moreau Location</u>	DELIVERED TO	ORDER NO.
3.	<input type="checkbox"/> SALES		WELL TYPE <u>03</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>035</u>	WELL PERMIT NO.	WELL LOCATION <u>W. Rolla LA</u>
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOG	ACCT	DF			QTY.	U/M	QTY.	U/M		
000-117						MILEAGE	24	MI	1	WD	2.75	66.00
001-016						Pump Charge	250.9	PT	6	HR		1345.00
5 A	837-02100					55 Float Shoe 1.1/ FELL	5 1/2	EW	1	EA		225.00
40	807-93022					5-4 CENTRAL PRESS	5 1/2	WD	5	CA	44.00	220.00
350	890-10502					MOREAU W. ROLL A			1	EA		14.50

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 JUL 24 1995  
 CONSERVATION DIVISION  
 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  
X

DATE SIGNED: 10/18/93 TIME SIGNED: 2:30:00  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	<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <u>1870.50</u>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?			SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <u>6815.42</u>
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
TUBING SIZE	TUBING PRESSURE	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) <u>SAM CARMACK</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X</u>	HALLIBURTON OPERATOR/ENGINEER <u>Tim Bahaman</u>	EMP # <u>87748</u>	HALLIBURTON APPROVAL <u>w/39% disc/4157.41</u>
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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 TO ACCOUNTS** - CUSTOMER AGREES TO RELEASE THE HALLIBURTON GROUP FROM ALL AND WHATEVER LIABILITY, INCLUDING LIABILITY 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.