

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

API NO. 15- 129-21265-0000 ORIGINAL

County MORTON  
SE SW NW Sec. 25 Twp. 32S Rge. 40 X W

Operator: License # 5952

2840 Feet from (S)N (circle one) Line of Section

Name: AMOCO PRODUCTION COMPANY

4030 Feet from (E)W (circle one) Line of Section

Address P. O. BOX 800 ROOM 925

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

City/State/Zip DENVER, CO 80201

Lease Name WHITE GU /C/ Well # 3HI

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

Field Name HUGOTON

Operator Contact Person: ELLEN HARTZLER

Producing Formation CHASE

Phone (303) 830-5130

Elevation: Ground 3228'  KB 3239'

Contractor: Name: CHEYENNE DRILLING

Total Dept 2639'  PBD 2638

License: 5382

Amount of Surface Pipe Set and Cemented at 577 Feet

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

Multiple Stage Cementing Collar Used?  Yes  No

Designate Type of Completion

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

New Well  Re-Entry  Workover

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

Oil  SWD  SIGW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

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

If Workover: \_\_\_\_\_

Drilling Fluid Management Plan ALT I 11-30-95 JK  
(Data must be collected from the Reserve Pit)

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

Chloride content 5800 ppm Fluid volume 2140 bbls

Well Name: DEC 19 1994

Dewatering method used DRIED AND FILLED

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

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

Deepening  Re-perm  CONSERVATION DIVISION  SIGW  Inj/SWD  
 Plug Back  WICHITA  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

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

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

07/28/94 \_\_\_\_\_ 07/31/94 \_\_\_\_\_ 09/01/94 \_\_\_\_\_  
Spud Date Date Reached TD Completion Date

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 all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Ellen Hartzler

Title SR. STAFF ASSISTANT \_\_\_\_\_ Date 12/12/94

Subscribed and sworn to before me this 12th day of December, 19 94.

Notary Public Virginia J. Williams

Date Commission Expires My Commission Expires 11/14/1998

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

SIDE TWO

Operator Name AMOCO PRODUCTION COMPANY Lease Name WHITE GU *1c1* Well # 3H1  
 Sec. 25 Twp. 32S Rge. 40  East  West  
 County MORTON

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)

Log **Formation (Top), Depth and Datum**  Sample  
 Name **Top Datum**  
 OGALLALA BASE 434 KB  
 CHASE TOP 2297  
 COUNCIL GROVE 2641

List All E.Logs Run:  
*Compensated Spectral*

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24#	577	Class C	275	
Production	7 7/8"	5 1/2"	15.5#	2639	Class C	450	

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	Depth
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	
4	2311-2317'; 2342-2357'; 2380-2400'; 2488-2502';	FRAC W/245,000# 12/20 SAND & 1,286 BBLs	2311-2582
	2552-2582';	OF X-LINKED GELLED FRESH WATER	

**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 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 2311-2582  
 (If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_



DRILLERS LOG

AMOCO PRODUCTION COMPANY  
WHITE GU "C" 3HI  
SECTION 25-T32S-R40W  
MORTON COUNTY, KANSAS

COMMENCED: 07-28-94  
COMPLETED: 07-31-94

SURFACE CASING: 567' OF 8 5/8" CMTD  
W/125 SKS CLASS C LITE + 2% CC + 1/4  
#/SK FLOCELE. TAILED IN W/ 150 SKS  
CLASS C + 2% CC + 1/4 #/SK FLOCELE

FORMATION

DEPTH

FORMATION	DEPTH
SURFACE HOLE	0 - 578
RED BED & ANHYDRITE	578 - 1299
GLORIETTA SANDSTONE	1299 - 1373
RED BED	1373 - 2639 RTD

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DEC 19 1994

CONSERVATION DIVISION  
WICHITA, KS

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

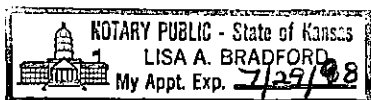
CHEYENNE DRILLING, INC.

*Wray Valentine*

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 2ND DAY OF AUGUST, 1994



*Lisa a Bradford, Notary Public*

**JOB LOG** FORM 2013 R-4

CUSTOMER Amoco Production	WELL NO. 3 HF	LEASE D.H. II G.O. C	JOB TYPE 5 1/2" LONG STRING	TICKET NO. 677815
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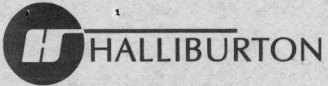
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2200							JOB READY
	1800							CALLED OUT FOR JOB
	2100							PUMP TRUCK ON LOCATION
								RIG HAS 2637' OF HOLE CUT
								ON BOTTOM WITH D.P. CIRCUITING
	2115							START LAYING DOWN BRILL. PIPE
	2315							D.P. LAYED DOWN
	2330							START RUNNING 5 1/2" CSG + FLOAT
								EQUIPMENT
	0130							CASING ON BOTTOM 2668'
								HOOK UP 5 1/2" PIPE + CIRCUITING IRON
	0142							START CIRCUITING WITH RIG PUMP
								THROUGH CIRCUITING
								HOOK UP TO PUMP TRUCK
	0158	7.0			✓		275'	START MIXING 450 SKS CEMENT
	0221		160		✓			THROUGH MIXING CEMENT
								SHUT DOWN
								RELEASE PLUG
								WASH UP PUMP TRUCK
	0224	6.8			✓		325'	START DISPLACING
			48.0		✓			MOVE 48 BBLs DISPLACED HAVE
								CEMENT RETURNS TO SURFACE
	0235		66.0		✓		1700'	PLUG DOWN
								RELEASE FLOAT
								FLOAT HELD
								CIRCULATED 17 BBLs (46 SKS)

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CONSERVATION DIVISION  
WICHITA, KS

THANK YOU!  
WOODY, RYAN + CREW



# JOB SUMMARY

HALLIBURTON DIVISION MID CONTINENT  
 HALLIBURTON LOCATION LIBERAL KS

BILLED ON TICKET NO. 677815

## WELL DATA

FIELD HUGOTON TAPILL SEC. 25 TWP. 32 RING. 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 2639

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>14'</u>	<u>5 1/2</u>	<u>KB</u>	<u>2668</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>5 1/2</u>	<u>1</u>	<u>HUGO</u>
GUIDE SHOE		
CENTRALIZERS <u>5 1/2</u>	<u>5</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>5 1/2</u>	<u>1</u>	<u>"</u>
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
<u>7:30 74</u>	<u>7:30 74</u>	<u>7:31 74</u>	<u>7:31 74</u>
DATE	DATE	DATE	DATE
TIME <u>1:00</u>	TIME <u>2:45</u>	TIME <u>0:58</u>	TIME <u>0:35</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. WOODROW 62573</u>	<u>40079</u>	<u>LIBERAL KS</u>
<u>T. DAVIS 14550</u>	<u>52776 ADD ROOM 76700</u>	<u>" "</u>
<u>D. McFUTURE D9704</u>	<u>52127</u>	<u>HUGOTON KS</u>

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DEPARTMENT Cement

DESCRIPTION OF JOB Cement 5/4 production casing

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

CUSTOMER REPRESENTATIVE X

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>450</u>	<u>premium + LSC</u>	<u>HUGO</u>	<u>B</u>	<u>1/4' FLOSOLE</u>	<u>2.06</u>	<u>12.3</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. 650

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 165

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

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

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

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

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

FEET 2 REASON FLOAT SHOE

### REMARKS

CUSTOMER \_\_\_\_\_  
 LEASE \_\_\_\_\_  
 WELL NO. 341  
 JOB TYPE 5 1/2" 14.625" TUBING  
 DATE 7-30-74





**HALLIBURTON ENERGY SERVICES**

FORM 1906 R-13

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

COPY

TICKET

No. **677815 - 6**

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. <u>25540 LIBERAL</u>	<u>3 HT</u>	<u>WHITE GU'C</u>	<u>MORTON</u>	<u>KS</u>	<u>ROLLA</u>	<u>7-29-94</u>	<u>SAME</u>
2. <u>25535 INGOTON</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>CHEYENNE DRIL "3"</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>WELL SITE</u>	ORDER NO.
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4.	<u>O2 GAS</u>	<u>01 DEVELOPMENT</u>	<u>035' 5/8' LONG STRING</u>		<u>LAND</u>		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
000'117		/			MILEAGE	32	M	2	U	2 75	176 00
001'016		/			Pump CHARGE	2668	FT			1455 00	1455 00
030'016		/			5'4" TOP PLUG	1	IN	5'6"	IN	60 00	60 00
40		/			CENTRALIZER	5	IN	5'6"	IN	44 00	220 00
5A	837-07100	/			FLOAT SHOE	1	IN	5'6"	IN	225 00	225 00
350	896-10802	/			Unco well A	1	IN	1	LB	14 50	14 50

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 DEC 19 1994  
 CONSERVATION DIVISION  
 WICHITA, KS

<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 checked="" type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <b>2150 150</b>  FROM CONTINUATION PAGE(S) <b>5606 92</b>  <b>7757 42</b>  SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
	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?				
DATE SIGNED <u>7-30-94</u>		TIME SIGNED <u>2045</u>		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				
I <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered		TREE CONNECTION	TYPE VALVE	<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 GARMAN</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X</b>	HALLIBURTON OPERATOR/ENGINEER <u>Jh Woodrow</u>	EMP # <u>62573</u>	HALLIBURTON APPROVAL <u>w/42.5% disc.</u>	<b>4460.52</b>
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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.

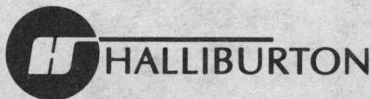
E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS 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 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** HAL-2013-C

CUSTOMER: Amoco Production WELL NO.: 3HI LEASE: WHITE GW. "C" JOB TYPE: 8 5/8 SURFACE CSG. TICKET NO.: 635102

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							CALL OUT
	2130							ON LOCK. READY 2130
	2200							PULLING D.P.
	2300							START RUNNING CSG.
	2310							HOOKE HEAD TO CIRCULATE
	2319							CIRCULATION TO PIT - SAFETY MEETING
	2321		46					HOOKE UP CMT LINE
	2330		35				180	START LEAD CMT. 12.3 #/GAL
	2336		0				250	START TAIL CMT. 14.8 #/GAL
	2342		24.7				0	SHUT DOWN DROP PLUG
	2347		34.7				0/250	START DISPLACEMENT #20
	2352						250/150	SLOW RATE DOWN 34.7 TOTAL
							150	PLUG LANDED - FLOAT HELD
								JOB OVER
								THANKS FOR CALLING
								HALLIBURTON ENERGY SERVICES
								LIBERAL KS.
								BROADFOOT - MARTINEZ - LEWIS
								15 BBL CMT TO PIT
								41 SKS.
								HAVE A GOOD NIGHT

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DEC 19 1994  
CONSERVATION DIVISION  
WICHITA, KS

ORIGINAL

WELL DATA  
FIELD Hugoton SEC. 25 TWP. 32 RING. 40W 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	20*	8 5/8	KB	577	
LINER						
TUBING						
OPEN HOLE			12 1/4	KB	578	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-28-94</u> TIME <u>1730</u>	DATE <u>7-28-94</u> TIME <u>2130</u>	DATE <u>7-28-94</u> TIME <u>2321</u>	DATE <u>7-28-94</u> TIME <u>2355</u>

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSERT 8 5/8</u>	<u>1</u>	<u>H</u>
FLOAT SHOE <u>FILLUP "</u>	<u>1</u>	
GUIDE SHOE		<u>0</u>
CENTRALIZERS <u>S-4</u>	<u>3</u>	
BOTTOM PLUG		<u>W</u>
TOP PLUG <u>5w</u>	<u>1</u>	
HEAD <u>Houco WELD KB</u>	<u>1</u>	<u>C</u>
PACKER		
OTHER		<u>0</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>T. BROADFOOT -D4604</u>	<u>38242</u>	<u>LIBERAL KS.</u>
<u>R. MARTINEZ G2731</u>	<u>52947</u> <u>75496</u>	<u>"</u>
<u>M. LEWIS G2896</u>	<u>50737</u> <u>4734</u>	<u>HUGOTON KS.</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. \_\_\_\_\_ IN  
BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_  
PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

DEPARTMENT CEMENT  
DESCRIPTION OF JOB CMT 8 5/8 SURFACE CSG.  
JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
CUSTOMER REPRESENTATIVE X  
HALLIBURTON OPERATOR J. Broadfoot COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>125</u>	<u>PREM PLUSLT</u>		<u>B</u>	<u>2% C.C. - 1/4 700CELE</u>	<u>2.06</u>	<u>12.3</u>
<u>1</u>	<u>150</u>	<u>PREM PAUS</u>		<u>B</u>	<u>2% C.C. - 1/4 700CELE</u>	<u>1.32</u>	<u>14.8</u>

**PRESSURES IN PSI**  
CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
AVERAGE RATES IN BPM \_\_\_\_\_  
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
CEMENT LEFT IN PIPE \_\_\_\_\_  
FEET 44.56 REASON SHOE JT.

**SUMMARY**

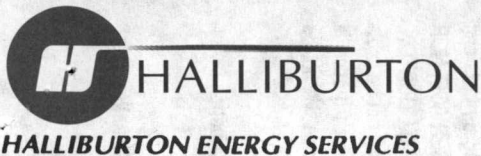
**VOLUMES**

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 34.7  
CEMENT SLURRY: BBL.-GAL. 46-35  
TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_  
REMARKS \_\_\_\_\_  
\_\_\_\_\_

CUSTOMER AMCO PRODUCTION  
LEASE WHITE GR 'C'  
WELL NO. 341  
JOB TYPE 8 5/8 SURFACE CSG  
DATE 7-28-94

ORIGINAL





CHARGE TO: ANCO-PRODUCTION  
 ADDRESS: 222 W. OKLA AVE  
 CITY, STATE, ZIP CODE: OLYSSISS KS 67880

COPY

TICKET

No. **635102 - 6**

PAGE 1 OF 2

FORM 1906 R-13

1. SERVICE LOCATIONS <u>15022AL KS 023542</u>	WELL/PROJECT NO. <u>3HI</u>	LEASE <u>WHITE GU "C"</u>	COUNTY/PARISH <u>MORTON</u>	STATE <u>KS.</u>	CITY/OFFSHORE LOCATION	DATE <u>7-28-94</u>	OWNER <u>ANCO</u>
2. <u>HUG. 111 KS 023335</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTRACTOR <u>CHEYENNE</u>	RIG NAME/NO. <u>CHEYENNE 3</u>	SHIPPED VIA <u>TRUCK</u>	DELIVERED TO <u>LOCATIONS/ROLLA</u>	ORDER NO.
3.	WELL TYPE <u>OL</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>010</u>	WELL PERMIT NO.	WELL LOCATION <u>25-32-40W</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117					MILEAGE	46	MI	7	UNIT	275	126.50
001-016					PUMP CHARGE	578	FT	6	HR		890.00
030-018					5W TOP PLUG	8	IN	1	EA		130.00
24A	815.19508				INSERT	11	IN	11	IN		150.00
27	815.19715				FILLUP	11	IN	11	IN		N/C
40	806.61048				S-W CENTRALIZERS	11	IN	3	EA	65	195.00
300	890.10802				WEAR "A"	1	KB	1	EA		14.50

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 DEC 19 1994  
 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: 7-29-94 TIME SIGNED: 0030  A.M.  P.M.

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

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input checked="" type="checkbox"/> PULLED <input type="checkbox"/> RUN	<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <u>1506</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>5261</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				

**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) <b>X</b>	HALLIBURTON OPERATOR/ENGINEER <u>Jim Broadfoot</u>	EMP # <u>15604</u>	HALLIBURTON APPROVAL <u>w/42.5% disc.</u>	3025.48
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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 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.