

21042

TIGHT ORIGINAL

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

API NO. 15- 081-20442-0000

County Haskell

 - C - SE - SE Sec. 30 Twp. 30S Rge. 33 E

Operator: License # 5952

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

Name: Amoco Production Company

710 Feet from E/W (circle one) Line of Section

Address PO Box 800 Room 924

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

City/State/Zip Denver, CO 80201

Lease Name Megan Janae Well # 1-30

Purchaser: Texaco

Field Name Lemon

Operator Contact Person: Susan R. Potts

Producing Formation Kansas City 'A'

Phone (303) 830-5323

Elevation: Ground 2945' KB 2956'

Total Depth 5660' PBDT 4644'

Contractor: Name: Cheyenne Drilling

License: 5382

Amount of Surface Pipe Set and Cemented at 1565 Feet

Multiple Stage Cementing Collar Used? X Yes No

Wellsite Geologist: Charles Schmaltz

If Yes, show depth set 3265 Feet

Designate Type of Completion

X New Well Re-Entry Workover

If Alternate II completion, cement circulated from

X Oil SMD SLOW Temp. Abd.

feet depth to w/ sx cmt.

 Gas ENHR SIGW

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit) ALT E W HW 2-9-07

 Dry Other (Core, WSW, Exp. Cathodic, etc)

If Workover:

Operator:

Chloride content 4800 ppm Fluid volume 3500 bbls

Well Name:

Dewatering method used Dried and Filled

Comp. Date Old Total Depth

Location of fluid disposal if hauled offsite: NOV 8

 Deepening Re-perf. Conv. to Inj/SWD

Operator Name

 Plug Back PBDT

Lease Name License No.

 Commingled Docket No.

 Quarter Sec. Twp. S Rng. E/W

 Dual Completion Docket No.

County Docket No.

8/6/96 8/19/96 9/4/96

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 Josue R. BKO

Title Senior Staff Assistant Date 11/8/96

Subscribed and sworn to before me this 8th day of November 1996

Notary Public

Date Commission Expires January 4, 1997

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SMD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NGPA
<input type="checkbox"/>		<input type="checkbox"/> Other (Specify)

130 S. MARKET
WICHITA, KS 67202

SIDE TWO

Operator Name Amoco Production Company Lease Name Megan Janae Well # 1-30

Sec. 30 Twp. 30S Rge. 33 East West
 County Haskell

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.)

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Heebner Shale	4006'	-1050'
Lansing	4100'	-1144'
Kansas City 'A'	4551'	-1601'
Marmaton	4733'	-1776'
Morrow Shale	5218'	-2262'
Miss. St. Genevieve	5307'	-2351'
Miss. St. Louis	5417'	-2461'

List All E.Logs Run: Complex Lithology Quick Look, Microlog, Induction Laterolog, Spectral Density Dual Spaced Neutron II

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	12.25"	8.625"	28	1565'	Premium Plus Lite	470	2%CC*1/4#Flocele
Production-1st Stage	7.875"	4.5"	10.5	4150-4677'	Premium Plus Premium	150 135	2%CC*1/4#Flocele 1%CC, 7%EA-2, .6% Haled 322, 15%Salt, 1/4#O-Air
Production-2nd Stage	7.875"	4.5"	10.5	11-3265'	Premium Plus Lite	450	1/4# Flocele

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	4710-4885'	Premium	50	.1% HR-5

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	Depth
4	4578-4588'; 4561-4578'	Acidize w/76 bbls. 20% HCL and flush	4561-4588'
		w/24 bbls. 2% potassium chloride.	

TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2.375" 4.7# J-55 EUE T&C	4619'	4619'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj. First Oil 9/25/96		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	5 BOPD							

Disposition of Gas: **METHOD OF COMPLETION** Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Conmingled 4561-4588'
 Other (Specify) _____

ORIGINAL

AMOCO PRODUCTION COMPANY
MEGAN JANAE 1-30
SECTION 30-T30S-R33W
HASKELL COUNTY, KANSAS

RELEASED

15-081-20142

JAN 29 1999

COMMENCED: 08-06-96
COMPLETED: 08-20-96

FROM CONFIDENTIAL

SURFACE CASING: 1565' OF 8 5/8" CMTD
W/470 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 - 1565
SHALE	1565 - 1800
STONE CORRAL & SHALE	1800 - 2355
CHASE	2355 - 2705
COUNCIL GROVE	2705 - 3760
HEBNER	3760 - 4170
LANSING	4170 - 4435
LANSING & KANSAS CITY	4435 - 4579
KANSAS CITY	4579 - 4755
MARMATON	4755 - 5008
CHEROKEE	5008 - 5030
ATOKA	5030 - 5207
MORROW	5207 - 5313
ST. GENEVIEVE	5313 - 5660 RTD

RECEIVED
KANSAS CORPORATION COMMISSION

NOV 12 1996

CONSERVATION DIVISION
WICHITA, KS

NOV 8
CONFIDENTIAL

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

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 22ND DAY OF AUGUST, 1996

JOLENE K. RUSSELL

NOTARY PUBLIC



JOB LOG HAL-2013-C

DATE 8-7-96 PAGE NO.

CUSTOMER <i>Amoco</i>	WELL NO. <i>1-30</i>	LEASE <i>Morgan JAMAC</i>	JOB TYPE <i>Surface</i>	TICKET NO. <i>106663</i>
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	12:00							CALL OUT ORIGINAL
	17:30							ON LOCATION
	17:35							SEALED TUBING
	18:00	8	1725		X		250	Mix = pump 3 to dc. t. 470 Wt. = 12.7% 2.06% ₁₀ , 10.3% ₂ C. L. 100 Wt / R F 10 = 1.2% C.C.
	18:32	4.5	352		X		150	Start To 100 ft 150 ft 14.3%, 1.33% 6.3% ₁₀₀ "C" 1 1/4" / 1.1 ft = 6.2% C.C.
	18:43							Shut down - down 700 plug
	18:47	5	95.0				500	Start 95.2 2 1/2 ft = 1.1% C.C.
	19:13						1000	Revised Plug
	19:15							Release plug to 100 ft BBL. Release 1.1%
	19:18							Release plug
								65 Bbls to Pit
								RECEIVED KANSAS CORPORATION COMMISSION NOV 12 1996 CONSERVATION DIVISION WICHITA, KS
								NOV 8 CONFIDENTIAL
								Thanks Parker: John
								RELEASED JAN 29 1999
								FROM CONFIDENTIAL



JOB SUMMARY

HALLIBURTON DIVISION

HALLIBURTON LOCATION

W. 1st St. KS

BILLED ON TICKET NO.

10666

WELL DATA

FIELD _____ SEC. 30 TWP. 30 RNG. 33 COUNTY Haskell 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	1A	28	2 7/8	0	1569	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-19-96</u>	DATE <u>1-17-96</u>	DATE <u>1-2-96</u>	DATE <u>1-1-96</u>
TIME <u>11:00</u>	TIME <u>13:30</u>	TIME	TIME

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>A.R. Standridge</u>	<u>P/U</u>	<u>Duncan OK</u>
<u>70722</u>		
<u>John Klitt</u>	<u>52274-7181</u>	<u>Duncan OK</u>
<u>85257</u>	<u>20M</u>	
<u>Dallas Corporation</u>	<u>21152-75232</u>	<u>Wichita KS</u>
<u>63726</u>	<u>TRK</u>	
<u>Jason Slomp</u>		
<u>H4777</u>	<u>CRK</u>	<u>Wichita KS</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS	<u>4</u>	<u>3/4" H.W.</u>
BOTTOM PLUG		
TOP PLUG	<u>1</u>	
HEAD	<u>1</u>	
PACKER	<u>1</u>	
OTHER	<u>1</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. _____

NE AGENT TYPE _____ GAL. _____

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____

GELLING AGENT TYPE _____ GAL.-LB. _____

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____

BREAKER TYPE _____ GAL.-LB. _____ IN _____

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

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JAN 29 1999**FROM CONFIDENTIAL****RECEIVED**
KANSAS CORPORATION COMMISSION**NOV 12 1996****CONSERVATION DIVISION**
WICHITA, KSDEPARTMENT 7001
DESCRIPTION OF JOB Surface**NOV 8**JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR _____ COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>476</u>	<u>Cement</u>		<u>3</u>	<u>74/100-10, 2400</u>	<u>2.6</u>	<u>16.0</u>
<u>2</u>	<u>150</u>	<u>"</u>		<u>8</u>	<u>" 2400</u>	<u>1.2</u>	<u>16.0</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. _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. _____

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

CUSTOMER



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION CUSTOMER COPY

3732-6610
4115-75237

TICKET No. 15623

FORM 1911 R-10

CUSTOMER	WELL	DATE	PAGE	OF
Amoco Production	Morgan James 1-30	8-7-96		

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-120					Halliburton Light Premium Plus	470		skn		11.12	5226.40
504-090	516.00265										
506-109	516.00286										
506-121	516.00259										
504-090	516.00265				Premium Plus Cement	150		skn		12.62	1893.00
509-406	890.50812				Calcium Chloride 2% w/all	11		skn		40.75	448.25
507-210	890.50071				Floccale 1/4# w/all	155		#		1.65	255.75
<p>RELEASED JAN 29 1999 FROM CONFIDENTIAL</p> <p>RECEIVED KANSAS CORPORATION COMMISSION NOV 12 1996 CONSERVATION DIVISION WICHITA, KS</p>											
500-207					SERVICE CHARGE						
						CUBIC FEET	652			1.35	880.20
500-306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES			
						58469	33	964.74		1.05	1012.98

No. B 343629

CONTINUATION TOTAL



HALLIBURTON ENERGY SERVICES

HAL-1906-P

CHARGE TO:
Amoco Production
 ADDRESS:
2225 W. Oklahoma Ave
 CITY, STATE, ZIP CODE:
Wichita KS 67280

CUSTOMER COPY

TICKET

No.

106663 - 1

PAGE 1 OF

SERVICE LOCATIONS 1. <i>Leland KS</i>	WELL/PROJECT NO.	LEASE <i>M-10-3-1001-30</i>	COUNTY/PARISH <i>Harmon</i>	STATE <i>KS</i>	CITY/OFFSHORE LOCATION <i>Leland</i>	DATE <i>8-7-96</i>	OWNER
2. <i>Wichita KS</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR	RIG NAME/NO. <i>Wichita Drilling #3</i>	SHIPPED VIA <i>Location</i>	ORDER NO.	
3.	WELL TYPE <i>DI</i>	WELL CATEGORY	JOB PURPOSE <i>CIO</i>	WELL PERMIT NO.	WELL LOCATION <i>Wichita - 1001-30-30-30</i>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117					MILEAGE 26.4/1 RCM	26	1	CA	2	99	257.14
000-119					Cement on Crown	1	1	CA	1	14	137.14
01-011					Depth Charge	151	9	96		1360	1360.00
24A	215.19501				Insert float	1	1	CA	1	190	190.00
27	215.19414				Fill Tube	1	1	CA	1	64	64.00
41	801.61048				Centralizers	4	4	CA	4	61	244.00
350	810.11502				Weld A	1	1	CA	1	16	16.75
020-010	420.15781				Top Plug	1	1	CA	1	130	130.00

RELEASED
 JAN 29 1999
 FROM CONFIDENTIAL

RECEIVED
 OPERATIONAL COMMISSION
 NOV 7 1996
 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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

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

CUSTOMER DID NOT WISH TO RESPOND

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN TYPE LOCK _____ DEPTH _____ BEAN SIZE _____ SPACERS _____ TYPE OF EQUALIZING SUB. _____ CASING PRESSURE _____ TUBING SIZE _____ TUBING PRESSURE _____ WELL DEPTH _____ TREE CONNECTION _____ TYPE VALVE _____	SURVEY AGREE _____ DIS. AGREE _____ DECIDED _____ KANSAS OPERATIONAL COMMISSION NOV 7 1996 CONSERVATION DIVISION WICHITA, KS OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	PAGE TOTAL _____ FROM CONTINUATION PAGE(S) _____ SUB-TOTAL _____ APPLICABLE TAXES WILL BE ADDED ON INVOICE
---	---	---

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) <i>See Entry</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X	HALLIBURTON OPERATOR/ENGINEER <i>[Signature]</i>	EMP # <i>7700</i>	HALLIBURTON APPROVAL
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TERMS AND CONDITIONS

(1295)

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 not recovered or is irreparable, Customer shall pay the replacement cost, unless such loss is caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, this agreement will constitute Customer's written agreement under 10 CFR Sec. 39.15 (a) that Customer shall be responsible for meeting all requirements of 10 CFR Sec. 39.15 and any other applicable laws or regulations concerning retrieval, monitoring, decontamination and abandonment, and Customer shall permit Halliburton to observe the recovery or abandonment efforts, all without risk or expense 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.



HALLIBURTON

ORIGINAL

DATE PAGE NO.

JOB LOG HAL-2013-C

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
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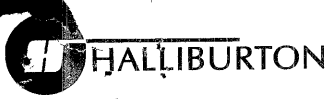
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Hook to CWT
								Start H/C pump (Pressure 4500)
								Start CWT
								Start Pump T
								Start Pump
								Pump Reached Break Through
								Well 7 Shut
								Run CWT Oil Foul - 2' Shut
								6.5gpm Start to Circulate
								Circulate
								Hook to CWT
								Stop Space
								Start CWT
								CWT Pumped Clean the well
								Run CWT
								Start Dept H/C
								Switch to H/C
								Stop to 20 BPM COP
								Plug down H/C in Tubing
								Down Tool in well
								Stop Test
								Stop Pump
								Hook to CWT
								Start CWT
								CWT Pumped Clean the well
								Run CWT
								Start Pump
								Slow Rate
								Clear Test
								Well Shut

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 NOV 12 1996
 CONSERVATION DIVISION
 WICHITA KS

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 JAN 29 1999

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Thanks



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION Liberal

BILLED ON TICKET NO. 1111

WELL DATA

FIELD _____ SEC. 20 TWP. 50 RNG. 10 COUNTY Wichita STATE _____

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

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

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8/17</u>	DATE <u>5/17</u>	DATE <u>9/17</u>	DATE <u>8/17</u>
TIME <u>12:11</u>	TIME <u>20</u>	TIME <u>2:43</u>	TIME <u>1:00</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
Float Collar		
Float Shoe <u>1 1/2" P. 1 1/2"</u>		
Guide Shoe	<u>1</u>	
Centralizers	<u>14</u>	
Bottom Plug		
TOP PLUG <u>2-1/2"</u>		
HEAD <u>1 1/2" Tool</u>		
Packer		
OTHER		RELEASED

MATERIALS

TREAT. FLUID _____ DENSITY _____ **JAN 29 1999** 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 _____

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PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Royce</u>	<u>420015</u>	<u>Liberal</u>
<u>12/1/9</u>		
<u>T. P. ...</u>	<u>15176</u>	
<u>...</u>		
<u>...</u>		<u>Liberal</u>
<u>...</u>		
<u>...</u>		

DEPARTMENT ...
 DESCRIPTION OF JOB ...

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

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR R... COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>50</u>	<u>H</u>		<u>R</u>	<u>1% HFE</u>	<u>1.15</u>	<u>15.1</u>
<u>2</u>	<u>150</u>	<u>H</u>		<u>R</u>	<u>1% HFE, 7% F-12, 1% H-100</u>		
<u>3</u>	<u>450</u>	<u>C-15</u>		<u>R</u>	<u>1% HFE, 1% F-12, 1% H-100</u>	<u>1.20</u>	<u>15.1</u>

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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. _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. _____
 TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

REMARKS



HALLIBURTON ENERGY SERVICES

HAL-1906-P

CHARGE TO: *D...*
 ADDRESS: *...*
 CITY, STATE, ZIP CODE: *...*

CUSTOMER COPY

TICKET

106710 - X

PAGE 1 OF 1

1. SERVICE LOCATIONS	WELL/PROJECT NO. <i>1-30</i>	LEASE <i>Morgan Jones</i>	COUNTY/PARISH <i>Ark.</i>	STATE <i>Ark.</i>	CITY/OFFSHORE LOCATION	DATE <i>6-19-96</i>	OWNER <i>Same</i>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Chapman</i>	RIG NAME/NO. <i>3</i>	SHIPPED VIA <i>NCV 100</i>	DELIVERED	ORDER NO.	
3. WELL TYPE	WELL CATEGORY <i>01</i>	JOB PURPOSE <i>035</i>	WELL PERMIT NO.	WELL LOCATION			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

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JAN 29 1999

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PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
	ORIG				MILEAGE	40				2.75	179
					Car Mileage	60				1.20	76
					Commuter Mileage						11.20
					Start Stage	4127					18.20
					Add. Travel Stage	326					15.50
124		825 201			Grade Sh	47				50	95
41		806 6000			Co. Trip 200	4 1/2				60	300
50		806 10114			Co. Trip 200	4 1/2				60	480
71		813 80100			D.V. Trip	4 1/2				60	2790
75		803 16411			Watch Dog	4 1/2				60	320
32	806 71412			Pick-Up	4 1/2				60	97	
	806 10500			Weld A					60	11.00	

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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <i>10261</i>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S)
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					SUB-TOTAL <i>19525.37</i>
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
DATE SIGNED	TIME SIGNED	ARE YOU SATISFIED WITH OUR SERVICE?		<input type="checkbox"/> YES <input type="checkbox"/> NO		APPLICABLE TAXES WILL BE ADDED ON INVOICE	
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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	<i>X</i>	<i>R. Covert</i>	<i>07413</i>	

TERMS AND CONDITIONS

(1295)

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 not recovered or is irreparable, Customer shall pay the replacement cost, unless such loss is caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, this agreement will constitute Customer's written agreement under 10 CFR Sec. 39.15 (a) that Customer shall be responsible for meeting all requirements of 10 CFR Sec. 39.15 and any other applicable laws or regulations concerning retrieval, monitoring, decontamination and abandonment, and Customer shall permit Halliburton to observe the recovery or abandonment efforts, all without risk or expense 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.