

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

API NO. 15- 187-20815-0000 ORIGINAL

County Stanton

- E/2 - SE - SE Sec. 34 Twp. 29S Rge. 40 X W

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

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

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

Lease Name Amber Michelle Well # 1-34

Field Name Little Arrow

Producing Formation St. Louis

Elevation: Ground 3258.97' KB 3272'

Total Depth 5754' PBD 5713'

Amount of Surface Pipe Set and Cemented at 1589 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 3010 Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan ALT 1 97 12-16-96  
(Data must be collected from the Reserve Pit)

Chloride content 1100 ppm Fluid volume 2200 bbls

Dewatering method used Dried and Filled

Location of fluid disposal if hauled offsite:

Operator Name KCC

Lease Name JUN 1 License No.

Twp. S Rng. E/W

County Docket No.

Operator: License # 5952

Name: Amoco Production Company

Address PO Box 800 Room 924

City/State/Zip Denver, CO 80201

Purchaser: Oil-Texaco Gas-Williams

Operator Contact Person: Susan R. Potts

Phone (303) 830-5323

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: Ken LeBlanc

Designate Type of Completion

X New Well Re-Entry Workover

X Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

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

If Workover: RCD 6-12-96 CONSERVATION DIV WICHITA, KS

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBD

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

2/13/96 2/26/96 4/9/96  
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 Susan R. Potts

Title Senior Staff Assistant Date 6/11/96

Subscribed and sworn to before me this 11th day of June 19 96.

Notary Public Dina R. Harris

Date Commission Expires 11-10-96

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

Form ACO-1 (7-91)

RELEASED

SEP 16 1998

FROM CONFIDENTIAL

SIDE TWO

INFORMATION

Operator Name Amoco Production Company Lease Name Amber Michelle Well # 1-34  
 Sec. 34 Twp. 29S Rge. 40  East  West  
 County Stanton

**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.)  
 List All E.Logs Run: Dual Spaced Neutron, Cement Bond, Fluid Travel

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
Base Heebner	3698'	KB
Lansing	3758'	
Marmaton	4378'	
Cherokee	4548'	
Morrow	5066'	
Chester	5464'	
St. Genevieve	5504'	
St. Louis	5595'	

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"	24	1589'	Premium Plus Lite	460	2%CC+1/4#Flocele
					Premium Plus	150	2%CC+1/4#Flocele
					Premium Plus	100	2%CC
Production-1st Stage	7.875"	4.5"	10.5	4800-5714'	Premium	250	1%CC, 7%EA-2, .6% Halad 322, 15%ALT

*And stay* ADDITIONAL CEMENTING/SQUEEZE RECORD *1/4# SK D-AIR*

Purposes:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	1589' 1720'	Premium	100	10% Cal Seal, 4% Cal, 2%CC
<input type="checkbox"/> Plug Back TD		Premium Plus	200	2%CC+1/4# Flocele
<input type="checkbox"/> Plug Off Zone	1625' 1670'	Premium	50	10% Cal Seal, 4% Cal, 2%CC

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	5596-5600'; 5607-5620'; CIBP set at 5700'	Cement 5600-5700 100 sacks Premium Cement .5%Halad 322 5607-5612 Cement 50 sacks Premium Cement .6% Halad 322
	Production-2nd Stage Premium Plus Lite 220 sx 1/4# Flocele from 1760-2000'	
	Premium 50 sx	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2.375" 4.7# J-55 EUE T&C	5589'	5589'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. First Gas-4/10/96 First Oil-5/28/96		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 40 BOPD	Bbls.	Gas 600 MSFCD	Mcf	Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled 5596-5600'

Production Interval  Other (Specify) \_\_\_\_\_

DRILLERS LOG

ORIGINAL

AMOCO PRODUCTION COMPANY  
AMBER MICHELLE 1-34  
SECTION 34-T29S-R40W  
STANTON COUNTY, KANSAS

CONFIDENTIAL

COMMENCED: 02-13-96  
COMPLETED: 02-26-96

SURFACE CASING: 1589' OF 8 5/8" CMTD  
W/460 SKS PREMIUM PLUS LITE + 2% CC + 1/4  
#/SK FLOCELE. TAILED IN W/150 SKS  
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE

FORMATION

DEPTH

FORMATION	DEPTH
SURFACE HOLE	0 - 1589
RED BED	1589 - 1720
STONE CORRAL	1720 - 1954
CHASE	1954 - 2360
COUNCIL GROVE	2360 - 3820
HEBNER	3820 - 4045
LANSING	4045 - 4375
MARMATON	4375 - 4481
CHEROKEE	4481 - 4730
MARMATON	4730 - 4856
CHEROKEE	4856 - 4976
CHEROKEE & MORROW	4976 - 5109
MORROW	5109 - 5448
MORROW & CHESTER	5448 - 5518
CHESTER AND ST. GENEVIEVE	5518 - 5660
ST LOUIS	5660 - 5725 RTD

RECEIVED  
KANSAS CORPORATION COMMISSION

JUN 12 1996

CONSERVATION DIVISION  
WICHITA, KS

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

RELEASED

CHEYENNE DRILLING, INC.

KCC

SEP 16 1998

*Wray Valentine*

JUN 11

FROM CONFIDENTIAL WRAY VALENTINE

CONFIDENTIAL

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 1ST DAY OF MARCH, 1996



JOLENE K. RUSSELL

*Jolene K. Russell*  
NOTARY PUBLIC

**JOB LOG** HAL-2013-C

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Adco Production	1-35	Adair Michelli	8 3/8 SURFACE	917768

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1710							Run 175' of one inch outside 8 3/8 SURFACE <u>JOB PROCEDURE</u>
	1745	2.5						← 100/1200 START MIXING MUDS (PPT 11/29/96) HAVE 16 BBLs mixed (2745) BEING GOOD CEMENT RETURNS TO SURFACE
	1757							← 100/1200 THROUGH MIXING CEMENT - SLOW EQUAL CELLAR STAYING FULL, <u>TON CONDENSE</u> MIXED CEMENT
<b>CONFIDENTIAL</b>								
<b>ORIGINAL</b>								
<p>PLEASE VISIT CALL NG 111</p> <p>Woody + DANNY</p>								
<p><b>RECEIVED</b> KANSAS CORPORATION COMMISSION</p> <p>JUN 12 1996</p> <p>CONSERVATION DIVISION WICHITA, KS</p>								
<p>KCC JUN 11 1996</p> <p><b>CONFIDENTIAL</b></p>								
<p><b>RELEASED</b> SEP 16 1998 FROM CONFIDENTIAL</p>								

**JOB LOG** HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Angeles Drilling Co.		21-35		Angeles M. Circle		2 1/2 String		919764	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0730							JOB READY NOW	
	0830							CALLED OUT FOR PUMP	
	0900							PUMP TRUCK & RIG ARRIVE ON LOCATION RIG SETTING DOWN PIPE - TRIP TO OUT OF HOLE -	
	0945							RIG SHORT TOP END IN HOLE - CHECK TOP OUT	
	0900							<b>CONFIDENTIAL ORIGINAL</b>	
	1045							START RUNNING TO SET FOR STOP CANNON ON BOTTOM 109' FT	
	1212							HOOK UP 8 1/2 P/C - CIRCULATING IRON	
	1215							START CIRCULATING WITH RIG PUMP	
	1226							HOLD SAFETY MEETING THROUGH CIRCULATION - HOOK UP TO PUMP TRUCK	
								<u>JOB PROCEEDING</u>	
	1225	6.0	148			180/100		START MIXING LEAD CEMENT AT 12.3 <sup>lb</sup> /GAL	
	1250	6.0	355			85/150		START MIXING TAIL CEMENT AT 14.8	
	1256		2035			0		THROUGH MIXING CEMENT - SILENT DOWN	
	1358							RELEASE PLUG - FLUID LEVEL IN CLEAR WELL	
	1300	5.0				0/45		START DISPLACING - <del>plug</del>	
	1303							PUMP TO BUIS GETTING CIRCULATION BACK	
	1315		76.0					HAVE TO BUIS DEPICT - GETTING HOLE RETURNS BACK ON CIRCULATION	
	1330		100			500		PLUG DOWN.	
						235		MIN LIFT PRESSURE BEFORE LANDING PLUG DID NOT CIRCULATE CEMENT RELEASE PLUG - PLUG DID NOT HOLD SILENT IN P/C	
	1340							CHILLED OUT 200 SPS CEMENT & 900 LBS LIGHT OIL CEMENT	
	1645							RIG TRUCK ON LOCATION	

REPRODUCED BY  
 KANSAS CORPORATION  
 JUN 12 1990  
 CONSERVATION DIVISION  
 WICHITA, KS

RELEASED  
 SEP 16 1998  
 FROM CONFIDENTIAL

KCC  
 JUN 11  
 CONFIDENTIAL



# JOB SUMMARY

HALLIBURTON DIVISION IND. CONTRACT  
 HALLIBURTON LOCATION L. B. POOL, KS

BILLED ON TICKET NO. 119718

## WELL DATA

FIELD \_\_\_\_\_ SEC. 34 TWP. 27 RING. 4500 COUNTY. TARRANT STATE KS

FORMATION NAME Seal Bed 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 1589

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	✓	225'	2 3/4"	852	1527	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

TOOLS AND ACCESSORIES			
TYPE AND SIZE	QTY.	MAKE	
FLOAT COLLAR			
FLOAT-SHOE <u>70-107</u>	<u>2 3/4"</u>	<u>1</u>	<u>H</u>
GUIDE SHOE			
CENTRALIZERS	<u>2 3/4"</u>	<u>4</u>	<u>O</u>
BOTTOM PLUG			
TOP PLUG <u>5-10-100</u>	<u>2 3/4"</u>	<u>1</u>	<u>(A)</u>
HEAD <u>D/C</u>	<u>2 3/4"</u>	<u>1</u>	
PACKER			<u>C</u>
OTHER			<u>O</u>

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-14-76</u>	DATE <u>2-14-76</u>	DATE <u>2-14-76</u>	DATE <u>2-14-76</u>
TIME <u>0230</u>	TIME <u>0620</u>	TIME	TIME <u>1059</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. ...</u>		
<u>D. ...</u>		
<u>...</u>		

# ORIGINAL

# CONFIDENTIAL

**MATERIALS**

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_  
 PERFFAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT CEMENT  
 DESCRIPTION OF JOB CEMENT 2 3/4" SOURCE CASING  
 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 <u>KCC</u>	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>467</u>	<u>1500</u>	<u>PP</u>	<u>100</u>	<u>B</u>	<u>21 CC 1/4</u>	<u>2.56</u>	<u>12.3</u>
<u>1517</u>	<u>1500</u>	<u>PP</u>		<u>C</u>	<u>21 CC 1/4</u>	<u>1.52</u>	<u>14.1</u>
<u>100</u>	<u>PP</u>			<u>B</u>	<u>21 CC</u>	<u>1.22</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. \_\_\_\_\_ DISP: BBL.-GAL. 785  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 160.116  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. 203.96  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS 5-10-100 1500 SACKS PP 21 CC  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 39 REASON HA V. 75017

CUSTOMER APSCO Production  
 LEASE ApSCO on 4/11/76  
 WELL NO. 34  
 JOB TYPE 5 1/2" casing  
 DATE 2-14-76









**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

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

CUSTOMER COPY

TICKET

No. **919768 - 3**

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>025540 LIBERAL</u>	WELL/PROJECT NO. <u>1-34</u>	LEASE <u>Amoco Michelle</u>	COUNTY/PARISH <u>STANTON</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION <u>503 P.O. BOX</u>	DATE <u>2-14-96</u>	OWNER <u>SAME</u>
2. <u>025535 HUNSTON</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>CHEMICAL DRUG '7</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>WELL SITE</u>	ORDER NO.
3.	WELL TYPE <u>CR. OIL</u>	WELL CATEGORY <u>OR DEVELOPMENT</u>	JOB PURPOSE <u>OIO 8 7/8 SURFACE CASING</u>	WELL PERMIT NO.	WELL LOCATION <u>LAND</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
020-117					MILEAGE	27	M	2	EA	2.85	153.90
001-016					PUMP CHARGE	15287	FT	6	MRS	1320.00	1320.00
020-119					CORIN MILEAGE	15287	FT	2	EA	1.50	1781.00
030-018					5" W TOP PLUG	1	EA	8 7/8	IN	130.00	130.00
34A	715-19502				TUBERT FLOAT	1	EA	8 7/8	IN	171.00	171.00
27	813-17414				FILL UP OSEY	1	EA	1.50	WT	64.00	64.00
41	813-11094				CENTRALIZER	4	EA	8 7/8	IN	61.00	244.00
352	813-10802				FIELD A	1	EA	1	WB	16.75	16.75
001-018					ADDITIONAL MRS	4	WB			235.00	940.00

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ORIGINAL

JUN 11

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**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: 2-14-96 TIME SIGNED: 2:00  
 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		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <u>31201 85</u>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S) <u>2891 22</u>
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					<u>15811 87</u>
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? <input type="checkbox"/> YES <input type="checkbox"/> NO				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
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>MR SAM CARMACK</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X</b>	HALLIBURTON OPERATOR/ENGINEER <u>JH Gordon</u>	EMP # <u>62573</u>	HALLIBURTON APPROVAL
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## TERMS AND CONDITIONS

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

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

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

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

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

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

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

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting 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.

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JOB LOG HAL-2013-C

DATE	PAGE NO.
7-21-96	
TICKET NO.	
919674	

CUSTOMER		WELL NO.		LEASE		JOB TYPE		DESCRIPTION OF OPERATION AND MATERIALS	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)			
				T	C	TUBING	CASING		
	0400								Called out - Requested "2800" not
	0800								On Location - L.P.D.P.
	1015								Run asg @ 4 1/2 <sup>1015</sup> - 178 Hrs.
	1320								On Bottom - 5714 ft
	1324								Hookup to circ. - circ. back 1328 hrs.
	1349								Hookup to ext.
	1358	0-6 1/2	100		✓	1/250			Pump cement @ 250 strokes "H"
	1401	6-0			✓	150			Shut down - washup tank - Drop plug
	1415	0-5 1/2	90			1/800			Pump Displacement - H <sub>2</sub> O
	1430	5 1/2-2 1/2			✓	800			Reduce Rate - 80 bbls in
	1433	2 1/2-0			✓	900			Plug Down
	1434				✓	1400			Release Press. - Plug latch
									Good circ. - Release crew from loc.
									Thank you!
									Tom, Dave, & Dennis
									ORIGINAL
									KCC
									JUN 11
									CONFIDENTIAL
									RELEASED
									SEP 16 1998
									FROM CONFIDENTIAL



# JOB SUMMARY

HALLIBURTON DIVISION 1774 CantonmentHALLIBURTON LOCATION Liberal KSBILLED ON TICKET NO. 219674

## WELL DATA

FIELD \_\_\_\_\_ SEC. 24 TWP. 29 RING. 400 COUNTY. Cantonment 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 Port Cell TOTAL DEPTH 211 - 2119

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	1	10 7/8	4.5	A: 12	5714	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT:
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>1 1/2</u>	<u>1</u>	<u>Hymac</u>
GUIDE SHOE <u>Port Cell</u>	<u>1</u>	<u>SA 50300</u>
CENTRALIZERS <u>1/2</u>	<u>14</u>	
BOTTOM PLUG		
TOP PLUG <u>1.0 PL</u>	<u>1</u>	
HEAD <u>pa</u>	<u>1</u>	
PACKER <u>port</u>	<u>1</u>	
OTHER <u>1/2</u>	<u>2</u>	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-26-95</u>	DATE <u>2-26-95</u>	DATE <u>2-26-95</u>	DATE <u>2-26-95</u>
TIME <u>7:13</u>	TIME <u>8:00</u>	TIME <u>12:59</u>	TIME <u>14:34</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<b>CONFIDENTIAL</b>		
<b>ORIGINAL</b>		

### 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 \_\_\_\_\_ IN  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ LB.  
 GELLING AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ LB.  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ LB.  
 BREAKER TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ LB.  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ LB.  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT 5001  
 DESCRIPTION OF JOB Set production log & Port Cell  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.   
 CUSTOMER REPRESENTATIVE X JUN 11  
 HALLIBURTON OPERATOR [Signature] **CONFIDENTIAL** COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>250</u>	<u>11</u>		<u>B</u>	<u>1% cc, 1% water, 15% sand, 6% additives, 1% salt, 1% lime</u>	<u>1.35</u>	<u>156</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. 90  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 60  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS Refrigerate 29  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET: 41.25 REASON: Shut In

CUSTOMER Amoco Prod  
 LEASE Halliburton Well No. 1-24  
 WELL NO. 1-24  
 JOB TYPE OS  
 DATE 2-26-95



TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 919674

HALLIBURTON ENERGY SERVICES

CUSTOMER <b>Arco Production</b>	WELL <b>Arber Michelle 1-34</b>	DATE <b>02-26-96</b>	PAGE <b>2</b>	OF <b>2</b>
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT	
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
504-043	516.00272				Premium Cement	250	sk		11.08		2770.00
507-775	516.00144				Halad-322 .67M/ 250	141	lb		7.00		987.00
507-970	70.157643				D-Air 1 1/4M/ 250	63	lb		3.25		204.75
508-127	516.00335				EA-2 7M/ 250	16	sk		25.90		414.40
509-406	890.50812				Calcium Chloride 12M/ 250	3	sk		36.75		110.25
509-968	516.00315				Granulated salt 15M/ 250	1795	lb		15		269.25
CONFIDENTIAL ORIGINAL											
NOW CONFIDENTIAL											
RELEASED SEP 16 1998 FROM CONFIDENTIAL											
500-207					SERVICE CHARGE			CUBIC FEET	307	1.35	414.45
500-306					MILEAGE CHARGE	TOTAL WEIGHT 27384	LOADED MILES 43	TON MILES	588.756	.95	559.32

No. B 219841

CONTINUATION TOTAL

5729.42



**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

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

DUNCAN COPY

TICKET

No. **919674 - 8**

PAGE 1 OF 2

1. SERVICE LOCATIONS <i>25540</i>	WELL/PROJECT NO. <i>1-34</i>	LEASE <i>Amber Michelle</i>	COUNTY/PARISH <i>Stanton</i>	STATE <i>Ks</i>	CITY/OFFSHORE LOCATION <i>Johnston</i>	DATE <i>2-26-96</i>	OWNER
2. <i>25535</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Cheyenne</i>	RIG NAME/NO. <i>#1</i>	SHIPPED VIA <i>HES</i>	DELIVERED TO <i>Wellsite</i>	ORDER NO.
3.	WELL TYPE <i>01</i>	WELL CATEGORY <i>01</i>	JOB PURPOSE <i>035</i>	WELL PERMIT NO.	WELL LOCATION <i>Land (34, 29, 40w)</i>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>000-117</i>	<b>RELEASED SEP 16 1998 FROM CONFIDENTIAL</b>		<b>ORIGINAL</b>		MILEAGE	<i>EA</i>	<i>mi</i>	<i>142</i>	<i>mi</i>	<i>2.85</i>	<i>404.70</i>
<i>000-119</i>					<i>CREW MILEAGE</i>	<i>EA</i>	<i>mi</i>	<i>142</i>	<i>mi</i>	<i>1.50</i>	<i>NC</i>
<i>73</i>					<i>POOT COLLAR</i>	<i>1 EA</i>		<i>4 1/2</i>	<i>IN</i>		<i>1525.00</i>
<i>12A</i>		<i>825.201</i>			<i>GUIDE SHOE</i>	<i>1 EA</i>		<i>4 1/2</i>	<i>IN</i>		<i>95.00</i>
<i>50</i>		<i>806.60104</i>			<i>FLUIDMASTER CENTRALIZER</i>	<i>8 EA</i>		<i>4 1/2</i>	<i>IN</i>	<i>60.00</i>	<i>480.00</i>
<i>40</i>		<i>806.60004</i>			<i>REGULAR CENTRALIZER</i>	<i>6 EA</i>		<i>4 1/2</i>	<i>IN</i>	<i>50.00</i>	<i>300.00</i>
<i>320</i>		<i>806.71415</i>			<i>BUCKET</i>	<i>1 EA</i>		<i>4 1/2</i>	<i>IN</i>		<i>99.00</i>
<i>594</i>		<i>801.03734</i>			<i>LATCH DOWN BAFFLE</i>	<i>1 EA</i>		<i>4 1/2</i>	<i>IN</i>		<i>100.00</i>
<i>595</i>		<i>809.81300</i>			<i>LATCH DOWN PLUG</i>	<i>1 EA</i>		<i>4 1/2</i>	<i>IN</i>		<i>445.00</i>
<i>350</i>		<i>890.10802</i>			<i>WELD A</i>	<i>2 EA</i>		<i>1 lb</i>		<i>16.95</i>	<i>33.90</i>
<i>001-016</i>				<i>PUMP CHARGE</i>	<i>6 HR</i>		<i>5714</i>	<i>FT</i>		<i>2000.00</i>	

**CONFIDENTIAL**

**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

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>5480.20</i>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S) <i>5729.42</i>
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					<i>11,209.62</i>
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
	WELL DEPTH	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO					SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
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) <b>X</b>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>Tom Payer</i>	HALLIBURTON OPERATOR/ENGINEER <i>Tom Payer</i>	EMP # <i>48120</i>	HALLIBURTON APPROVAL
---	--	---	-----------------------	----------------------

210103

## 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:

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**JOB LOG** HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Arioso Pool		1-314		Michellie		Log Control		921207	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0815								Time Collected
	0900								Time Ready
	0700								Time on loc.
									RELEASED
									SEP 16 1998
									FROM CONFIDENTIAL
	1000								Pick up 8 1/2 Packer + Run in Hole w Drill Pipe
	1020								Pick up Squeeze Manifold
	1038								Safety Meeting + Job Planning
	1048		12				400		Load BS
	1050								Pressure ORIGINAL
		2	12			50			Load Hole
		/	3			65			Pressure
			5						Pressure 15 BBL
	1100						NUL		Pressure 20 BBL
	1110		29.74						Start Down Hole w Cement
	1112	2							Finish Mfg Cement
	1118		10						Start Displacement
	1126		8				100		CONFIDENTIAL
	1132		4.8						Slow Rate Down
	1148								Pressure
	1215	1 1/2	15						Pressure 22.8 BBL
	1615								Pressure 10 gals
	1624								Pressure 145 1/2 BBL Pump
	1627	2					40 1/2		Pressure
	1630								Pressure
	1652		23.5						Pressure
	1658								Pressure
	1658	1 (BPM)					5		Pressure
	1720		21 1/2				50		Pressure
	1750						250		Pressure
	1758		1				100		Pressure





JOB LOG HAL-2013-C

DATE 2-15-96 PAGE NO. 2

CUSTOMER *Amoco Prod* WELL NO. *1-34* LEASE *Michelle* JOB TYPE *Lost Circ Plug & Seize* TICKET NO. *921202*

CHART NO. TIME RATE (BPM) VOLUME (BBL) (GAL) PUMPS T C PRESSURE (PSI) TUBING CASING DESCRIPTION OF OPERATION AND MATERIALS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
<del>2030</del>								Open Valve on DP
2035		1				30		Set Turckshock POTE
2045			10					Store Cement
2054		1.4	23.5					Fin. L. Mining Cost
2057								Shut Down Wash Up Pumps & Lines
2100		1				70		Start Displacement
<del>2172</del>			22			110 / 35		Shut Down
2155			1			100		Pressin
2156								Shut Down Press Down
2158								Break Loss Pull Pack out of
2205								Finish 1/2 dos Hole

ORIGINAL

Thanks For Calling  
Halliburton  
Energy  
D. [Signature]  
Crew

CONFIDENTIAL

KCC

JUN 1 1998

RELEASED

CONFIDENTIAL

SEP 16 1998

FROM CONFIDENTIAL

CUSTOMER



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

*Mid. Cont.*  
*Luzon Ks*

BILLED ON TICKET NO. *921202*

## WELL DATA

FIELD \_\_\_\_\_ SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RNG. \_\_\_\_\_ COUNTY: *Stanton* STATE: *Ks*

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<i>7.4</i>	<i>8 3/4</i>	<i>GL</i>	<i>1589</i>	
LINER						
TUBING		<i>DP</i>	<i>4 1/2</i>	<i>KB</i>	<i>1537</i>	
OPEN HOLE				<i>1589</i>	<i>1710</i>	SHOTS/FT.
PERFORATIONS		<i>lost Circ AT 1650</i>				
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>2-15</i>	DATE <i>2-15</i>	DATE <i>2-15</i>	DATE <i>2-15</i>
TIME <i>5:30</i>	TIME <i>0710</i>	TIME <i>1000</i>	TIME <i>2200</i>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>D. Dore</i>	<i>470041</i>	<i>Luzon Ks</i>
<i>M. Williams</i>	<i>52974 / 75916</i>	<i>"</i>
<i>G. Day</i>	<i>50737 / 75517</i>	<i>Horton Ks</i>

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. °API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. °API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

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

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

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

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

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

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

PERFFAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

ORIGINAL

CONFIDENTIAL

DEPARTMENT: *Cement*

DESCRIPTION OF JOB: *lost Circ Plug*

NOU

JOB DONE THRU: *DP*  *ANNULUS*  *TBG./ANN.*

CUSTOMER REPRESENTATIVE: *X* **CONFIDENTIAL**

HALLIBURTON OPERATOR: *Dennis C. Ober* COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<i>1</i>	<i>100</i>	<i>Th. Tecon</i>			<i>10% Gal Seal 4% GL 2% CC</i>	<i>1.67</i>	<i>14.1</i>
<i>2</i>	<i>100</i>	<i>Rem. Pl.</i>			<i>2% CC 1/4 # F. Seal</i>	<i>1.72</i>	<i>14.8</i>
<i>3</i>		<i>Rem. Pl.</i>			<i>2% CC 1/4 # F. Seal</i>	<i>1.57</i>	<i>14.8</i>

### PRESSURES IN PSI

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

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_

### HYDRAULIC HORSEPOWER

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

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

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

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

FEET \_\_\_\_\_ REASON \_\_\_\_\_

## SUMMARY

### VOLUMES

PRESLUSH: BBL.-GAL. *20* TYPE *Water*

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

TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. *25.02*

CEMENT SLURRY: BBL.-GAL. *29.74 23.5 22.5*

TOTAL VOLUME: BBL.-GAL. *79 29 28 28*

REMARKS: \_\_\_\_\_

CUSTOMER: *Amoco Prod*

LEASE: *Michelle*

WELL NO.: *1-714*

JOB TYPE: *lost Circ. Plug*

DATE: *2-15-96*



TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 921202

HALLIBURTON ENERGY SERVICES

CUSTOMER	WELL	DATE	PAGE OF
Arco	Michelle	2-15-06	25

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M		
504050	516.00265				Premium Plus Oct.	200	sk	12.62	2524.00
504043	516.00272				Premium Oct.	100	sk	11.03	1103.00
507277	516.00259				Cal 42-100sk	4	sk	18.60	74.40
500182	516.00235				EA-2 104-100sk	10	sk	25.90	259.00
507210	680.50071				Ela 1/4-200sk	50	lb	1.65	82.50
509466	680.50012				Calcium Chloride 23-500sk	6	sk	36.75	220.50
ORIGINAL					CONFIDENTIAL				
					RELEASED SEP 16 1998 FROM CONFIDENTIAL				
					KUC JUN 11 CONFIDENTIAL				
500207					SERVICE CHARGE				
500306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	CUBIC FEET	
					30.077	286	49	1.35	453.60
								95	605.76

No. B 219791

CONTINUATION TOTAL

5407.76



**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

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

CUSTOMER COPY

TICKET

No.

921202 - 7

PAGE 1 OF

SERVICE LOCATIONS: *25540 Lumberton K*  
*25535 Herten K*  
 WELL/PROJECT NO.: *1-314*  
 LEASE: *Michelle*  
 COUNTY/PARISH: *St. Tam.*  
 STATE: *Ks*  
 CITY/OFFSHORE LOCATION:  
 DATE:  
 OWNER: *Amoco.*  
 TICKET TYPE:  SERVICE  SALES  
 NITROGEN JOB?  YES  NO  
 CONTRACTOR:  
 RIG NAME/NO.: *Chaparral Pdg.*  
 SHIPPED VIA: *Loc.*  
 ORDER NO.:  
 WELL TYPE:  
 WELL CATEGORY:  
 JOB PURPOSE: *Lost Circ. Plug.*  
 WELL PERMIT NO.:  
 WELL LOCATION: *SE of Johnson*  
 REFERRAL LOCATION:  
 INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC.	ACCT.	DF.							
<i>000-017</i>					MILEAGE	<i>180</i>		<i>miles</i>		<i>2.85</i>	<i>513.00</i>
<i>000-019</i>					<i>Coop M. log</i>	<i>180</i>		<i>miles</i>		<i>1.50</i>	<i>270.00</i>
<i>009-019</i>					<i>Pump charge</i>	<i>1537</i>		<i>FT</i>			<i>1420.00</i>
<i>009-027</i>					<i>Additional Hours</i>	<i>6</i>		<i>Hours</i>		<i>235.00</i>	<i>1410.00</i>
<i>009-027</i>					<i>Additional Hours</i>	<i>2</i>		<i>Hours</i>		<i>235.00</i>	<i>NC</i>

CONFIDENTIAL

ORIGINAL

RELEASED  
SEP 16 1996

FROM CONFIDENTIAL

RECEIVED  
PERFORMING COMMISSION

JUN 7 2 1996

RECEIVED  
COMMISSION

NOV 11 1996

JUN 11

CONFIDENTIAL

**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

*Amoco Rep.*  
 DATE SIGNED: *Sam Cooney* 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 checked="" type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <i>3613.00</i>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				FROM CONTINUATION PAGE(S) <i>5407.76</i>
TREE CONNECTION	TYPE VALVE		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				Field Total <i>9020.76</i>
					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): *X*

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): *L10101*

HALLIBURTON OPERATOR/ENGINEER: *D. Hooper* EMP #: *59179*

HALLIBURTON APPROVAL:

## 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.



DATE	PAGE NO.
2-17-96	1
TICKET NO.	
919770	

JOB LOG HAL-2013.C

CUSTOMER	WELL NO.	LEASE	JOB TYPE
AMOCO PRODUCTION	1-34	AMBER MICHELLE	SPOT PLUG

CHART NO.	TIME	RATE (GPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				Y.	C.	TUBING	CASING	
	0100							JOB READY
	0200	2-17-96						CALLED OUT FOR JOB
	0030	2-18-96						PUMP TRUCK + BULK TRUCK ON LOCATION RIG TRIPPING OUT DRILL PIPE + COLLARS LOST CIRCULATION ± 1625' - 1670'
	0205							TRIP BACK IN HOLE WITH OPEN ENDED DRILL PIPE.
	0250							DRILL PIPE SPOTTED AT 1592' HOOK UP TO D-D JOB PROCEEDING
	0300	4.5			✓		100/125	PUMP 10 BALS BRISH WATER MIXED
	0304	4.0	15.5		✓		100/125	MIX 50 SKS THINOTROPIC AT 14.5 GPM
	0308	4.0					125/150	START DISPENSING - HAVE CIRCULATION PUMP 19 BALS WATER BEHIND GMT
	0330		19.0		✓			SLOW DOWN - KNOCK LOOSE
	0332							TRIP OUT DRILL PIPE WAIT 6 HRS TO FILL HOLE WAIT 12 HRS TO DRILL OUT JOB COMPLETE
	0430							OFF LOCATION

CONFIDENTIAL

ORIGINAL

THANK YOU!  
CALL AGNW  
WOODY + DEAN

KCC  
JUN 11  
CONFIDENTIAL

RECEIVED  
KANSAS CORPORATION COMMISSION

RELEASED

SEP 16 1998

JUN 12 1996

CONSERVATION DIVISION  
WICHITA, KS

FROM CONFIDENTIAL





TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 71777A

HALLIBURTON ENERGY SERVICES

CUSTOMER <b>Arco</b>	WELL <b>Michelle</b>	DATE <b>1-17-96</b>	PAGE OF
-------------------------	-------------------------	------------------------	------------

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M			
504043	516.00272				Premium Cmt.	50	sk			11 08	554 00	
508127	516.00395				EA-2 10#	5	sk			25 90	129 50	
507277	516.00259				Gal 4%	2	sk			18 60	37 20	
507210	890.56071				Flo 1/4	13	lb			1 65	21 45	
509406	890.50812				Calcium Chloride 2%	1	sk			36 75	36 75	
ORIGINAL												
CONFIDENTIAL												
KUU JUN 1 CONFIDENTIAL												
RELEASED												
SEP 16 1998												
FROM CONFIDENTIAL												
500207					SERVICE CHARGE					63	1 35	85 05
500306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES			95	144 89
						5546	55	152.51				

No. B 219805

CONTINUATION TOTAL

1004.94





**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

CHARGE TO:  
 ADDRESS: AMOCO PRODUCTION  
 CITY, STATE, ZIP CODE:

CUSTOMER COPY

TICKET

No.

919770-5

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>025540 LIBERAL</u>	WELL/PROJECT NO. <u>1-34</u>	LEASE <u>AMOCO PRODUCTION</u>	COUNTY/PARISH <u>STANTON</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION <u>S.W. BIG BOW</u>	DATE <u>2-12-96</u>	OWNER <u>SAME</u>
2. <u>025535 HUSTON</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>CHRYSTAL DALE #7</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>WELLSITE</u>	ORDER NO.
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1			MILEAGE	28	mi	2	hr	2.65	159.60
000-117		1			CREW MILEAGE	28	mi	2	hr	1.50	84.00
309-017		1			PUMP CHARGE	1592	FT	6	HRS	1420.00	1420.00
<div style="display: flex; justify-content: space-between;"> <span style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">CONFIDENTIAL</span> <span style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">ORIGINAL</span> </div>											

**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

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>1663</u>	FROM CONTINUATION PAGE(S) <u>1008</u>	<u>44</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?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO		SUB-TOTAL			
			<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		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) <u>X</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>[Signature]</u>	HALLIBURTON OPERATOR/ENGINEER <u>[Signature]</u>	EMP # <u>62573</u>	HALLIBURTON APPROVAL
---	--	---	-----------------------	----------------------

## 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.



CHARGE TO: **AMOCO**  
 ADDRESS:  
 CITY STATE ZIP CODE:

DUNCAN COPY

TICKET

No. **927498 - 0**

PAGE 01

HALLIBURTON ENERGY SERVICES

WELL PROJECT NO: **1-34** LEASE: **AMBER MICHELLE** COUNTY/PARISH: **STANTON** STATE: **KS** CITY/OFFSHORE LOCATION: DATE: **3-15-96** OWNER: **AMOCO**

TICKET TYPE:  SERVICE JOB?  YES  SALES  NO CONTRACTOR: **BARBO** RIG NAME/NO: SHIPPED VIA: DELIVERED TO: ORDER NO:

WELL TYPE: **01** WELL CATEGORY: **02** JOB PURPOSE: **625/830** WELL PERMIT NO: **15-787-20815** WELL LOCATION: **34-255-40 W**

REFERRAL LOCATION: **LIBERAL** INVOICE INSTRUCTIONS:

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JUN 11 1996

AMOCO ULYSSES

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF					
51538					MILEAGE				
750500					SERVICE CHG				900.00
757000					DEPTH				1425.00
757018					<del>TORIAN 2000</del>				500.00
757300					DEPTH				962.00
757305					SQUEEZE				390.00
757000					DEPTH				1417.50
757004					E2-SY RETAINER (NO)				940.00

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RECEIVED CORPORATION COMMISSION KANSAS

JUN 12 1996

CONSERVATION DIVISION WICHITA KS

RELEASED

SEP 16 1998

FROM CONFIDENTIAL

**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

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

Do  Do not require IPC (Instrument Protection)  Not offered

SUB SURFACE SAFETY VALVE WAS:  PULLED & RETURN  PULLED  RUN

TYPE LOCK: DEPTH

BEAN SIZE: SPACERS

TYPE OF EQUALIZING SUB: CASING PRESSURE

TUBING SIZE: TUBING PRESSURE: WELL DEPTH

TREE CONNECTION: TYPE VALVE

**SURVEY**

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?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: **6541.50**

FROM CONTINUATION PAGE(S)

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: **3378.57**

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The 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 (PLEASE PRINT): **X**

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): **H. E. K...**

HALLIBURTON OPERATOR/ENGINEER EMP # **73175 1007**

HALLIBURTON APPROVAL:

110602

06/10/1996 14:54 3163566934

CUSTOMER: Amaco Prod Co WELL NO. 1-34 LEASE Amber Michelle JOB TYPE RTTS TICKET NO. 921118

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1350							Set RTTS w/ 106 Jts. IN
	1355							Test - bad 700 PSI/MID Leak off
	1435							Port Collar leak - Call for Advice
	1500							Release RTTS - TTH 96 Jts + Tap PB
	1510					1500		Tag w/ 10' of 182 Jt. + tools above
	1540							slips - lay down 1 Jt.
	1600							Set RTTS @ 5700'
	3-15-96							Test - BAD
	0800							Circulation established up annulus
	1000							Release RTTS + Pull 3 Jts.
	1315							RTTS hanging @ 5592
	1545							close in well ORIGINAL
	1710							TOOK w/ Tools
	1740							Tools on bank - wait on E-Line
	1750							Rig up E-Line
	1800	2	10					Set CUBP @ 5700' - top
	1810	1/2	5			1500		Perforate 4SPF - 1ft @ 5680'
	1812	1				1200		Set EZSV @ 5670' - top
	1830	1/2	18.9			1500	1200	TTH w/ <del>set</del> stagguide
	1832	1.1	21.5			800	800	STAG INTO EZSV w/ 181 Jts -
								top of tag 5' above slips
								Rig onto tag. + Annulus
								STAG OUT OF EZSV
								LOAD WELL
								Safety MEETING
								Injection RATE - IMMEDIATE CIRCULATION
								START ANNULAR INJECTION
								Mix Cmt.
								START CAT. DOWNHOLE
								Increase tag rate as pressure drops
								Finish Cmt
								WASH Pump + Line
								begin displacement
								Cmt. on zone w/ 3 bbls out

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JUN 11  
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CUSTOMER: Amoco Prod. Co. WELL NO.: 1-34 LEASE: Amber Michelle JOB TYPE: EZSV TICKET NO.: 921118

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
						1500	1000	With 19 bbls out ANNULAR Pressure began a sharp build rate
	1847					1600	1500	STOP w/ 2 1/2 bbls out
	1850					1400	1400	STRING OUT OF EZSV
	1852							Rig off tbg. TDOG - 1st 9 - its pull wet due to PRODUCED WATER WEIGHT ON ANNULAR
	1900							Tbg. Dry
	1920							31 - its pulled
	1930							close in well AND SHUT DOWN Released from duty

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ORIGINAL

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JUN 11

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W 79  
2.75



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

Mid Continent  
Liberal, Ks.

BILLED ON TICKET NO. 92118

WELL DATA  
FIELD Little Arrow SEC 34 TWP. 29S RNC. 40W COUNTY Stanton 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 ETS - 50240-403 SET AT 5502  
BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
MISC. DATA KA=13.0' TOTAL DEPTH \_\_\_\_\_  
BVJF RBP-50340-439

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	10.5	4 1/2	KB		
LINER						
TUBING	U	4.7	2 3/8	KB		
OPEN HOLE						SHOTS/FT.
PERFORATIONS				5596	5609	
PERFORATIONS				5607	5620	
PERFORATIONS						

### JOB DATA

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOYOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 3-7-96	DATE 3-7-96	DATE 3-11-96	DATE
TIME 0800	TIME 1200	TIME 1100	TIME

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
Jeff Clark #71281	420366 AU	Liberal, Ks.
WOODROW-John #62573	420044 DU	" "
SONNY TATE #E0568	76900 RCM	" "
	Bulk	Hugoton, Ks.

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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.  
FRIG. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_  
PERFPAC BALLS TYPE \_\_\_\_\_ QTY \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

DEPARTMENT Tools  
DESCRIPTION OF JOB  
ETS + RBP - isolate + suble test 20UGS

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN

CUSTOMER REPRESENTATIVE X  
HALLIBURTON OPERATOR Jeff Clark COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT / SK	MIXED LBS / GAL.
	100	Premium		B	1/2% HALAD 322	1.06	16.4

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRES. LUSH, BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKD. 15 BBL. GAL. \_\_\_\_\_ PAD. BBL.-GAL. \_\_\_\_\_  
AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT BBL.-GAL. \_\_\_\_\_ DISPL. 2.15 BBL.-GAL. \_\_\_\_\_  
SHUT-IN, INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY 18.9 BBL.-GAL. \_\_\_\_\_  
HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME, BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
AVERAGE RATES IN BPM \_\_\_\_\_  
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
CEMENT LEFT IN PIPE \_\_\_\_\_

### REMARKS

CUSTOMER: HUGO PRODUCTION CO., LEASE: FATHER MICHELLE, WELL NO.: 1-34, JOB TYPE: ETS + BVJF RBP, DATE: 3-7-96







JOB LOG HAL-2019C

CUSTOMER	WELL NO.	LEASE	JOB TYPE	OPERATION AND MATERIALS	
Amoco Prod		Amoco Mahab			
START TIME	STOP TIME	PUMP TYPE	PRESSURE (PSI)	FLOW (GPM)	REMARKS
1430					Called out - Requested "1430" hrs
1410					On location Rig up
1450					Safety Meeting
1501	36	✓	0/1000		Load well - Circ 1 bbl to the pit
			100/150		Shut down
1515		✓	0/1500		Pretest + log
<del>1515</del>	<del>3</del>	✓			Shot in - Good test
1518	0-3.5	3	✓		Injection Rate
					Shut down
1524	0-2	3 1/2	✓	10%	Load B.S.
				0/500	ORIGINAL
1525	0-2	3 1/2	✓	0/1000	Injection Rate
	2-1				Mix Cement
1529	2-2	9 1/2	✓	600/1000	Jump Cost - Reduce Rate
1532	2-1 1/2	15 1/2	✓		Pump Displacement - perfect is 21.7 bbl
1536	2 1/2		✓	1800/1000	Reduce Rate
1541	1-1/2		✓	2250/1100	Reduce Rate
1544	1/2 - 0		✓	2250/150	Shut down - string-out - 15 1/2 bbl
1546	0-3		✓	450/1000	REVERSE out
1512	3-0	99	✓	100%	Shut down

Approx 3 bbl of cement in to perf  
at 1815 hrs.

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KCC

JUN 1 1996

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Thank you!

Tom, Tracy, Calvin

RELEASED

SEP 16 1998

FROM CONFIDENTIAL

WELL DATA

FIELD \_\_\_\_\_ SEC 24 TWP 29S RNC 40W COUNTY Stanton 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		<u>102</u>	<u>4 1/2</u>	<u>C.L.</u>		
LINER						
TUBING	<u>U</u>	<u>47</u>	<u>2 3/8</u>	<u>KB</u>	<u>5607</u>	
OPEN HOLE						<u>5607</u>
PERFORATIONS						
PERFORATIONS					<u>5607</u>	<u>5612</u>
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLBD OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-29-96</u>	DATE _____	DATE <u>3-29-96</u>	DATE <u>3-29-96</u>
TIME <u>1930</u>	TIME <u>1410</u>	TIME <u>1500</u>	TIME <u>1630</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>AGC</u>		
<u>JUN 1 1</u>		

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MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB. \_\_\_\_\_

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB. \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN \_\_\_\_\_

HE 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. \_\_\_\_\_

PERFRAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT 5001 (cont)

DESCRIPTION OF JOB SWEEPSE PERF. MAKING #20

JOB DONE THRU. TUBING  CASING  ANNULUS  TRG/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Tom Payne COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT / BK	MIXED LBS / GAL
	<u>50</u>	<u>PACEM</u>		<u>E</u>	<u>6% Halad 322</u>	<u>1.06</u>	<u>164</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PREFLUSH BBL-GAL \_\_\_\_\_ TYPE \_\_\_\_\_

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT BBL-GAL \_\_\_\_\_ DISPL BBL-GAL 15%

SHUT-IN: INSTANT \_\_\_\_\_ 8-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY BBL-GAL 9 1/2

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME BBL-GAL \_\_\_\_\_

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

AVERAGE RATES IN DPM \_\_\_\_\_

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

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

REASON \_\_\_\_\_

REMARKS Reversed out 6 bbls of slurry

CUSTOMER: Harco Prod  
LEASE: Harco Mitchell  
WELL NO: 275  
JOB TYPE: 275  
DATE: 3-29-96



TICKET CONTINUATION

ORIGINAL

TICKET No. 291232

HALLIBURTON ENERGY SERVICES

CUSTOMER: AMOOD, WELL: Amber Mitchle, DATE: 3-29-96, PAGE 2 OF 2

FORM 1811 2-10

Table with columns: PRICE REFERENCE, SECONDARY REFERENCE/PART NUMBER, ACCOUNTING (LOC, ACCT, DF), DESCRIPTION, QTY., U/M, UNIT PRICE, AMOUNT. Includes items like Premium Ont. and Halat-322 6/10 %.

ORIGINAL

KOC JUN 11 CONFIDENTIAL

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JUN 11 '96 10:05AM HALLIBURTON LIBERAL

5000207, 500306

SERVICE CHARGE, CUBIC FEET 50, TON MILES 254.55, MILEAGE CHARGE 54, WEIGHT 9426

No. B 341515

CONTINUATION TOTAL 1059.32



HALLIBURTON ENERGY SERVICES

CHARGE TO  
*Ameco Production*

ADDRESS

CITY STATE ZIP CODE

ORIGINAL

TICKET No. 921232 - **4**

PAGE 1 OF 2

1. SERVICE LOCATIONS <i>25540</i>	WELL/PROJECT NO <i>#1</i>	LEASE <i>Amber Michelle</i>	COUNTY/PARISH <i>Stanton</i>	STATE <i>KS</i>	CITY/OFFSHORE LOCATION <i>S.E. Johnston</i>	DATE <i>3-29-96</i>	OWNER
2. <i>25535</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Baabo</i>	RIG NAME/NO.	SHIPPED <input checked="" type="checkbox"/> YES	DELIVERED TO <i>wellcite</i>	ORDER NO.
3.	WELL TYPE	WELL CATEGORY <i>02</i>	JOB PURPOSE <i>075</i>	WELL PERMIT NO.	WELL LOCATION <i>Land (34-29s-40w)</i>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			UM		UM			
<i>000-117</i>		<i>1</i>			MILEAGE	<i>R/T</i>	<i>EA</i>	<i>mi</i>	<i>150</i>	<i>mi</i>	<i>2.85</i>	<i>427.50</i>
<i>000-119</i>		<i>1</i>			<i>CREW Mileage</i>	<i>R/T</i>	<i>BA</i>	<i>mi</i>	<i>150</i>	<i>mi</i>	<i>1.50</i>	<i>225.00</i>
<i>009-134</i>	<i>009-019</i>	<i>1</i>			<i>Pump Charge</i>		<i>6</i>	<i>hrs</i>	<i>5612</i>	<i>A</i>		<i>2145.00</i>
<i>128-546</i>		<i>1</i>			<i>Squeeze manifold to HES Tool</i>		<i>EA</i>	<i>Day</i>	<i>1</i>	<i>Day</i>	<i>290.00</i>	<i>NO</i>

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JUN 11  
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**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.

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

DATE SIGNED: *JUN 11 1996*

TIME SIGNED:  A.M.  P.M.

do  do not require IPC (Instrument Protection)  Not offered

SUB SURFACE SAFETY VALVE TYPE  PULLED & RETURN  PULLED  RUN

TYPE LOCK	DEPTH	
BEAM SIZE	SPACERS	
TYPE OF EQUALIZING SUB.	CASING PRESSURE	
TUBING SIZE	TUBING PRESSURE	WELL DEPTH
TREE CONNECTION	TYPE VALVE	

**SURVEY**

AGREE	UN DECIDED	DIS AGREE
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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?  
 YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	<i>2797.50</i>
FROM CONTINUATION PAGE(S)	<i>1059.32</i>
	<i>3856.82</i>
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	<i>2545.51</i>

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

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
<i>X</i>	<i>[Signature]</i>	<i>Tom Poyner</i>	<i>48120</i>	<i>[Signature] 34%</i>

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
AMOCO		1-34		AMBER MICHELLE		CENT PORT COLLAR		921475	
CHART NO.	TIME	RATE (GPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				Y	C	TUBING	CASING		
	0330							CREW + EQUIP CALLED OUT	
	0645							CREW + EQUIP ON LOCATION	
	0850	4	80					SAFETY MTG + RIG-UP	
	1245	1-2						PUMP 80 BBL BRINE TO KILL WELL	
	1330	3	13	X		2000		LOOKING FOR PORT COLLAR + TRY TO CIRCULATE WELL	
	1515	4	30	X		1100		PUMP 13 BBL BRINE DOWN TBC	
	1600							PUMP 30 BBL BRINE DOWN TBC	
	1630							RIG-TAK DOWN	
								CREW + EQUIP RELEASED	
								THANK YOU	
								CARL STROTH + CREW	
								4-5-96 JUN 11	
	0600							Time Called	
	0700							Time Ready	
	0900							Time out	
	1027					500		Setup Tank	
	1032							Hookup towers + casing	
	1112	3 1/2				650		Press BS	
	1114	2	5					Set truck/shovels etc	
	1127		80 <sup>32</sup>					Shut Down wait for fresh water	
	1132		9 <sup>43</sup>					Start Water Alard	
	1134		89 <sup>75</sup>					Start Mixing Cement	
	1135							Start Tail Cement	
	1138					650		Finish the cement	
	1143	7 1/2				325		Shut Down	
	1202	1/4				200		wash pumps + lines	
	1212	1/4				325		Start Dip	
	1245	1/4				400/350/250		Shut Down	
	1337	8 1/2				500		Pressup + Dip in TBC	
	1340							Pressup + Hold + Release Pressure	
	1355							Release all	
								Shut Down	

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RELEASED  
SEP 16 1998

FROM CONFIDENTIAL

Thanks for info  
 Halliburton  
 Dan  
 1-34  
 4-4-96



# HALLIBURTON SUMMARY

HALLIBURTON LOCATION **LIBERAL, KS**

BILLED ON TICKET NO **981970**

WELL DATA  
FIELD **STANTON CO KS** SEC **34** TWP **27** RNG **40** COUNTY **STANTON** 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 \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PER ALLOWABLE
CASING	U	10.50	4 1/2	GL		
LINER						
TUBING	U	4.70	2 3/8	GL	1920	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				2000		
PERFORATIONS						
PERFORATIONS						

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TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <b>4-4-96</b>	DATE <b>4-4-96</b>	DATE <b>4-4-96</b>	DATE <b>4-4-96</b>
TIME <b>03300</b>	TIME <b>0645</b>	TIME <b>0850</b>	TIME <b>1600</b>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<b>C. SMITH 75221</b>	<b>99406</b>	<b>55365</b>
<b>D. MAGRUDER 61499</b>	<b>75505</b>	<b>85540</b>
<b>J. ADAIR 63813</b>	<b>5886/7649</b>	<b>25535</b>
<b>S. B... KUC</b>	<b>14461/75505</b>	<b>25535</b>
<b>JUN 1 1</b>		
<b>CONFIDENTIAL 3179</b>	<b>92041</b>	<b>25510</b>

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.  
 FRIG. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 PERFRAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT **CEMT.**  
 DESCRIPTION OF JOB **CEMT PORT COLLAR AS PER CUSTOMERS ORDERS.**

JOB DONE THRU: TUBING  CASING  ANNULUS  TBS/ANN.

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR **C. L. SMITH** COPIES REQUESTED **2**

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT / 15X	MIXED LBS / GAL
	<b>220</b>	<b>C' AT WT</b>			<b>1/4" 1/2" FLOCCULE</b>	<b>2.06</b>	<b>12.3</b>
	<b>50</b>	<b>P...m</b>				<b>1.06</b>	<b>16.4</b>

PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN, INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_

FEET **N/A** REASON \_\_\_\_\_

SUMMARY

PRESSURE: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN. BBL.-GAL. \_\_\_\_\_ PAD. BBL.-GAL. \_\_\_\_\_  
 TREATMENT BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. **8 1/2**  
 CEMENT SLURRY BBL.-GAL. **89.15**  
 TOTAL VOLUME BBL.-GAL. \_\_\_\_\_

REMARKS  
**SEE JOB LOG.**

CUSTOMER: **AMSCO PROD CO**  
 LEASE: **AMDR MICHELLE**  
 WELL NO: **1-37**  
 JOB TYPE: **CEMT PORT COLLAR**  
 DATE: **4-4-96**









CHARGE TO:  
**AMOCO PRODUCTION CO**  
 ADDRESS:  
 CITY, STATE ZIP CODE:

ORIGINAL

TICKET

No.

921475-5

PAGE 1 OF 2

1. 25540	WELL PROJECT NO. 1-34	LEASE AMBER MICHELLE	COUNTY: PANHANDLE	STATE KS	CITY/OFFSHORE LOCATION	DATE 4-4-96	OWNER SAME
2. 25535	TICKET TYPE SERVICE	NITROGEN JOB? YES	CONTRACTOR BARBO WELLSER.	PIG NAME/NO	SHIPPED VIA CT	DELIVERED TO Loc.	ORDER NO
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE CENT PART CUL	WELL PERMIT NO	WELL LOCATION SE of Johnson Ks		

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UOM	QTY.	UOM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
00-117		1			MILEAGE ON 75405	136	MI	1		2.85	387.60
00-119		1			CREW MILEAGE ON 94406	136	MI	1		1.50	204.00
<del>00-134</del>	<del>009-019</del>	1			PUMPING SERVICE	1	HR	2000-3000	PSI	1	1200.00
111-213		1			ADDITIONAL HRS	5	HR	1000-2000	PSI	235.00	1175.00
222-119		1			Crew M. Luge	136	MI			1.50	204.00
079-134		1			Pump charge	2000	FT				1420.00

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NOT BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

SIGNED: **4-96** TIME SIGNED: **0800**

SUB SURFACE SAFETY VALVE WAS  PULLED & RETURNED  PULLED  RAN

TYPE LOCK DEPTH

BEAM SIZE SPACERS

TYPE OF EQUALIZING SUB CASING PRESSURE

TUBING SIZE TUBING PRESSURE WELL DEPTH

TREE CONNECTION TYPE VALVE

**SURVEY** AGREE UNDECIDED DIS-AGREE

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?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

4-5	1624.00
PAGE TOTAL 4-4	1791.60
FROM CONTINUATION PAGE(S) 324	38
742	06
4-5-96	5640.415
4-4 TBL	791.60
SUB-TOTAL	7432.04
APPLICABLE TAXES WILL BE ADDED ON INVOICE	Federal Total 4905.17

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

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) **JOE EUDEY** CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) **X**

HALLIBURTON OPERATOR/ENGINEER **CARL L SMITH 75221** HALLIBURTON APPROVAL **34%**