

5

15-129-21394-0000

FORM MUST BE TYPED

SIDE ONE

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- ~~129-21394~~-0000

County Morton

SW - SW - NE - NE Sec. 23 Twp. 32S Rge. 41 X W

4030 Feet from SN (circle one) Line of Section

1260 Feet from EW (circle one) Line of Section

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

Lease Name Lemon Gas Unit /C/ Well # 3H1

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3388.71' KB 3395'

Total Depth 2478' PBDT 2476.5'

Amount of Surface Pipe Set and Cemented at 551 Feet

Multiple Stage Cementing Collar Used? Yes X No

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

Designate Type of Completion X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover \_\_\_\_\_

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

\_\_\_\_\_ Drilling Fluid Management Plan ALT 1 JH 4-5-96  
(Data must be collected from the Reserve Pit)

Chloride content 2100 ppm Fluid volume 700 bbls

Dewatering method used Dried and Filled

Location of fluid disposal if hauled offsite:

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

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

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ 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: Williams Natural Gas

Operator Contact Person: Susan R. Potts

Phone (303) 830-5323

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: N/A

Designate Type of Completion

X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_

\_\_\_\_\_ Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ Temp. Abd.

X Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW \_\_\_\_\_

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

If Workovers:

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

Well Name: \_\_\_\_\_

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

\_\_\_\_\_ Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD

\_\_\_\_\_ Plug Back \_\_\_\_\_ PBDT

\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

7/22/95 7/25/95 9/5/95  
Spud Date Date Reached TD Completion Date

RECEIVED  
KANSAS CORPORATION COMMISSION  
DIVISION OF OIL & GAS CONSERVATION  
WICHITA, KS  
DEC 29 12-29-95

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 12-28-95

Subscribed and sworn to before me this 28th day of December 19 95.

Notary Public [Signature]

Date Commission Expires January 4 1997

1670 BROADWAY  
DENVER, CO 80201

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

**SIDE TWO**

Operator Name Amoco, Production Company Lease Name Lemon Gas Unit /C/ Well # 3HI

Sec. 23 Twp. 32S Rge. 41  East  West  
 County Morton

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

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

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
Ogallala Base	405'	KB
Chase Top	2248'	
Council Grove	2582'	

List All E.Logs Run: Compensated Spectral Natural Gamma Ray, Spectral Density Dual Spaced Neutron CSNG, High Resolution Induction

**CASING RECORD**

New  Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25"	8.625"	20	551'	MidCon Premium Plus	90	3%CC+1/4#Flocele
Production	7.875"	5.5"	14	2478'	MidCon Premium Plus Lite-100	250	2%CC+1/4#Flocele
						100	1/4# Flocele

**ADDITIONAL CEMENTING/SQUEEZE RECORD**

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	2184-2204'; 2254-2274'	FRAC w/ 41,000 lbs. 12/20 sand and 250 bbls. gelled fresh water and 76 bbls. foam.	2184-2274'

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.375" 4.7# J-55 EUE T&C		2314'	2314'		
Date of First, Resumed Production, SWD or Inj. First Gas 9/21/95	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 350 MCFD	Mcf	Water 5 BWPD	Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: **METHOD OF COMPLETION**  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  Open Hole  Perf.  Dually Comp.  Commingled 2184-2274'  
 Other (Specify) \_\_\_\_\_

DRILLERS LOG

ORIGINAL

AMOCO PRODUCTION COMPANY  
LEMON "C" GU 3HI  
SECTION 23-T32S-R41W  
MORTON COUNTY, KANSAS

COMMENCED: 07-22-95

COMPLETED: 07-25-95

SURFACE CASING: 551' OF 8 5/8" CMTD  
W/90 SKS MIDCON3 + 2% CC + 1/4 #/SK  
FLOCELE. TAILED IN W/ 100 SKS PREMIUM  
PLUS + 2% CC + 1/4 #/SK FLOCELE.

FORMATION

DEPTH

SURFACE HOLE

0 - 551

RED BED

551 - 2478 RTD

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

RECEIVED  
KANSAS CORPORATION COMMISSION

CHEYENNE DRILLING, INC.

*Wray Valentine*

DEC 29 1995

WRAY VALENTINE

CONSERVATION DIVISION  
WICHITA, KS

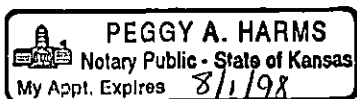
STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 27ST DAY OF JULY, 1995

PEGGY A. HARMS

*Peggy A. Harms*

NOTARY PUBLIC





DATE: 7-22-85  
 PAGE NO.: 1  
 TICKET NO.: 812157

**JOB LOG** HAL-2013-C

CUSTOMER: AMOCO PRODUCTION  
 WELL NO.: 3117  
 LEASE: LEMMA C. G.W.  
 JOB TYPE: 6 3/8 SURFACE

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							JOB READY
	0900							CALLED OUT FOR JOB
	1130							PUMP TRUCK & PUMP TRUCK ON LOCATION
	1200							RIG STILL DRILLING - SET UP PUMP TRUCK
								RIG THROUGH DRILLING 551' OF 12 1/4" HOLE
								ON BOTTOM CIRCULATING
	1230							LAY DOWN DRILL PIPE
	1430							START RUNNING 2 1/8 CSG & F17 EQUIP.
	2030							CASING ON BOTTOM 550'
	2050							HOOK UP XKEY & CIRCULATE - <del>BLUE SADDLE PAPER</del>
								HOOK UP 5 1/2" PIPE & CIRCULATING TROOP
	2110	6.5	53.0				0-200	START MIXING LEAD CEMENT 11.1 <sup>lb</sup> /gal
	2118	6.5	28.2				0-300	START MIXING TAIL CEMENT 14.8 <sup>lb</sup> /gal.
	2124		31.7					THROUGH MIXING CEMENT - SHUT DOWN
								RESTRICTOR TO BE REMOVED TO SURFACE
	2125							RELEASE PLUG
	2125							START DISPLACING
	2130		33.5				1000	PLUG DOWN - RELEASE FLOAT
								FROM HOLE
								MAX LIFT PRESSURE 250 <sup>lb</sup> /ps.
								CIRCULATED 49.5 BBL @ 96 SKS

ORIGINAL

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 OIL AND GAS CORPORATION COMMISSION

DEC 29 1995

CONSERVATION DIVISION  
 WICHITA, KS

THANK YOU!  
 WOODY & TYCE



# JOB SUMMARY

HALLIBURTON DIVISION MID CON LINE AREA  
 HALLIBURTON LOCATION Liberal KS.

BILLED ON TICKET NO. 812157

## WELL DATA

FIELD Hugotone SEC. 23 TWP. 32 RNG. 41W COUNTY McPherson 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 850

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>W</u>	<u>20</u>	<u>8 5/8</u>	<u>KB</u>	<u>550</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-22</u>	DATE <u>7-22</u>	DATE <u>7-22</u>	DATE <u>7-22</u>
TIME <u>0900</u>	TIME <u>1130</u>	TIME <u>2110</u>	TIME <u>2130</u>

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSPT 8 5/8</u>	<u>1</u>	<u>H</u>
FLOAT SHOE <u>FILLUP 8 5/8</u>	<u>1</u>	
GUIDE SHOE		<u>0</u>
CENTRALIZERS <u>S 4 8 5/8</u>	<u>3</u>	
BOTTOM PLUG		<u>W</u>
TOP PLUG <u>SW 8 5/8</u>	<u>1</u>	
HEAD <u>P.C. 8 5/8</u>	<u>1</u>	<u>L</u>
PACKER		
OTHER		<u>0</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. WOODROW</u>	<u>420044</u>	<u>LIBERAL</u>
<u>62573</u>	<u>P.U.</u>	<u>KS.</u>
<u>T. DAVIS</u>	<u>52276</u>	<u>"</u>
<u>F4550</u>	<u>76900 APC</u>	<u>"</u>
<u>G. MONTANA</u>	<u>52737</u>	<u>HUGOTONE</u>
<u>62755</u>	<u>75817 Bulk</u>	<u>KS.</u>

## MATERIALS

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

DEPARTMENT CEMENT  
 DESCRIPTION OF JOB CEMENT 8 5/8 SURFACE CSB

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

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR J. W. WOODROW

COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>90</u>	<u>MUDCON</u>		<u>B</u>	<u>370 CC 1/4 HR FLOCCLE</u>	<u>3.22</u>	<u>11.1</u>
<u>1</u>	<u>100</u>	<u>PROM PLUS</u>		<u>B</u>	<u>270 CC 1/4 HR FLOCCLE</u>	<u>1.32</u>	<u>14.5</u>

## 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 41 REASON STOP JOINT

## SUMMARY

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 33.1  
 CEMENT SLURRY: BBL.-GAL. 51.6 L.C. 23.5 T.C.  
 TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

## REMARKS

CAVITY MUDS SHIPPED TO SAN CARLOS

CUSTOMER Amoco Prod.  
 LEASE Lehigh G.U.C.  
 WELL NO. 3 HT  
 JOB TYPE 8 5/8 surface CSB  
 DATE 7-22-95



TICKET CONTINUATION DUNCAN COPY

TICKET No. 812157

HALLIBURTON ENERGY SERVICES

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CUSTOMER <b>Amoco</b>	WELL <b>Lemon</b>	DATE <b>7-22-95</b>	PAGE OF
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-050	516.00265				Premium Plus Cement	100	SK			11 <sup>51</sup> / <sub>100</sub>	1191 <sup>50</sup> / <sub>100</sub>
504-252					Midcon	90				16 <sup>51</sup> / <sub>100</sub>	1485 <sup>90</sup> / <sub>100</sub>
504-050	516.00265										
507-185	70.15250										
508-127	516.00335										
507-210	890.50071				FLO 1/4" / 190 SK	48	LB			1 <sup>65</sup> / <sub>100</sub>	79 <sup>30</sup> / <sub>100</sub>
509-406	690.80512				Calcium Chloride <small>240 - 100 SK 340 - 90 SK</small>	5	SK			36 <sup>25</sup> / <sub>100</sub>	183 <sup>75</sup> / <sub>100</sub>
500-207					SERVICE CHARGE					1 <sup>25</sup> / <sub>100</sub>	579 <sup>45</sup> / <sub>100</sub>
500-306					MILEAGE CHARGE						241 <sup>57</sup> / <sub>100</sub>
					TOTAL WEIGHT						18,549
					LOADED MILES						33
					CUBIC FEET					207	306.88
					TON MILES						75

RECEIVED  
KANSAS CORPORATION COMMISION  
DEC 29 1995  
CONSERVATION DIVISION  
WICHITA KS

ORIGINAL

No. B. 209662

CONTINUATION TOTAL 3510 84



**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

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

DUNCAN COPY

TICKET

No. 812157 - 5

PAGE 1 OF

SERVICE LOCATIONS 1. <u>025540 LIBERAL</u>	WELL/PROJECT NO. <u>3HI</u>	LEASE <u>LEMON</u>	COUNTY/PARISH <u>MORTON</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION <u>RICHFIELD</u>	DATE <u>7-22-95</u>	OWNER
2. <u>025535 HUGGTON</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>CHRYSLER DRIS '8</u>	RIG NAME/NO.	SHIPPED VIA <u>GT</u>	DELIVERED TO <u>WELL SITE</u>	ORDER NO.
3.	WELL TYPE <u>02-GAS</u>	WELL CATEGORY <u>01-DEVELOPMENT</u>	JOB PURPOSE <u>010-8 3/8 SURFACE</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							
000-117		1			MILEAGE	66	M	2	EA	2.75	363.00
001-016		1			PUMP CHARGE	550	FT			890.00	890.00
030-018		1			5-W TOP PLUG	1	EA	8 7/8	IN	130.00	130.00
40	806-61048	1			CENTRALIZER	3	EA	8 7/8	IN	65.00	195.00
24A	815-19508	1			INSERT FRONT VALVE	1	EA	8 7/8	IN	150.00	150.00
27	815-19415	1			FILL UP ASSY	1	EA	1.50	IN	N/A	N/A
350	896-10802	1			HALCO WELD A	1	EA	1	LB	14.50	14.50
001-018					ADDITIONAL HRS	2	HR			235.00	470.00

**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:  
 PULLED & RETURN  PULLED  RUN

TYPE LOCK	DEPTH	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	2212	50
BEAN SIZE	SPACERS		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					FROM CONTINUATION PAGE(S)
TYPE OF EQUALIZING SUB.	CASING PRESSURE	WE UNDERSTOOD AND MET YOUR NEEDS?						
TUBING SIZE	TUBING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
	WELL DEPTH	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					
<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
X	<i>[Signature]</i>	<i>[Signature]</i>	62573	w/disc 3290.92

42.5%

## 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.

200  
2/10  
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.

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JOB LOG HAL-2013-C

DATE 7-25-95 PAGE NO. 1

CUSTOMER Amoco Prod. WELL NO. 3HT LEASE Lemon G.U. 2" 5 1/2 Long string JOB TYPE TICKET NO. 811824

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	03100							Called out - Ready Now
	0420							ON LOCATION - Ready to Run Pipe
	0430							Run 5 1/2 Pipe
	0500							Setup Co. Truck
	0505							Safety Meeting
	0515							Work on Rig
	0645							Pipe on Bottom - Wait for Water
	0831							Hook up to Cement
	0836	7	143.3				150	Mix + Pump 250 sx @ 11.1 PPG
	0859	7	36.7				150	Mix + Pump 100 sx @ 12.3 PPG
	0915							Shut Down - Wash Pumps & Lines
	0919	7	60.6				200	Drop Top Plug & Displace Cement
	0923	7					450	Cement to Surface - 27 Bbl
	0927	7 1/3					500	Slow Rate Last 10 Bbl
	0929	3/0					550/1000	Plug Down - Float Held
								Job Complete
								Total Cement to Pit - 27 Bbl
								- 475 sx
								Plug Landing PSI - 550 PSI
								Bump to - 1000 PSI

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DEC 29 1995

CONSERVATION DIVISION WICHITA, KS

Thants for calling

Halliburton

WES Fox & CREW

CUSTOMER



# JOB SUMMARY

HALLIBURTON DIVISION Mid Cont.  
 HALLIBURTON LOCATION Liberal, KS

BILLED ON TICKET NO. 811824

WELL DATA  
 FIELD Hugoton SEC. 23 TWP. 32S RNG. 41W COUNTY Morton STATE KS

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
 FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
 INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
 PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
 BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
 MISC. DATA \_\_\_\_\_ TOTAL DEPTH 2478

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>1</u>	<u>14</u>	<u>5 1/2</u>	<u>CL</u>	<u>2472</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

### JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-25-95</u>	DATE <u>7-25-95</u>	DATE <u>7-25-95</u>	DATE <u>7-25-95</u>
TIME <u>0100</u>	TIME <u>0420</u>	TIME <u>0836</u>	TIME <u>0979</u>

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE	<u>1</u>	<u>SST</u>
GUIDE SHOE		
CENTRALIZERS	<u>5</u>	<u>S-4</u>
BOTTOM PLUG		
TOP PLUG	<u>1</u>	<u>5 1/2</u>
HEAD	<u>1</u>	<u>FF</u>
PACKER		
OTHER <u>WELD A</u>	<u>1</u>	

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>W. Fox</u>	<u>D4437</u>	<u>420042 P.O. Liberal, KS</u>
<u>C. Cowley</u>	<u>74345</u>	<u>75374 RCM</u>
<u>G. Mactyre</u>	<u>5303</u>	<u>Bulk Hugoton, KS</u>
<u>C. Dodson</u>	<u>7587</u>	<u>Bulk</u>

### MATERIALS

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

DEPARTMENT SOOL CEMENT  
 DESCRIPTION OF JOB 5 1/2 Long string

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

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR WEST FOX COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>250</u>	<u>Midcont</u>		<u>B</u>	<u>2 1/2 CL. 1/4" Floccle</u>	<u>3.22</u>	<u>11.1</u>
<u>2</u>	<u>100</u>	<u>Prem Plus Lt.</u>		<u>B</u>	<u>1/4" Floccle</u>	<u>2.06</u>	<u>12.3</u>

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET \_\_\_\_\_ REASON \_\_\_\_\_

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 60.6  
 CEMENT SLURRY: BBL.-GAL. 143.3 - 36.7  
 TOTAL VOLUME: BBL.-GAL. 240.6

### REMARKS

SEE Job Log  
MSSD with Co. Representative

CUSTOMER Amco Production  
 LEASE Liberal Co. Co.  
 WELL NO. 3417  
 JOB TYPE 5 1/2 Long string  
 DATE 7-25-95



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 811924

FORM 1911 R-10

CUSTOMER				WELL				DATE		PAGE	OF		
Amoco Production				Lemon G.U. "C" #3HI				07-25-95					
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE		AMOUNT	
		LOC	ACCT	DF									
504-282					Midcon	250	sk			16	39	4097 50	
504-120					Premium Plus Lite Cement	100	sk			10	56	1056 00	
504-050	516.00265												
506-105	516.00286												
506-121	516.00259												
507-210	890.50071				Floccole 1/2W/ 350	88	lb			1	65	145 20	
509-406	890.50812				Calcium Chloride 2W/ 250	5	sk			36	75	183 75	
500-207					SERVICE CHARGE			CUBIC FEET	379	1	35	511 65	
500-306					MILEAGE CHARGE	TOTAL WEIGHT	34,150	LOADED MILES	28	TON MILES	478/1	95	454 20

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WICHITA, KS

No. B 209673

CONTINUATION TOTAL

6448



HALLIBURTON

HALLIBURTON ENERGY SERVICES

HAL-1906-N

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

CUSTOMER COPY

TICKET

No.

811824 - 2

PAGE 1 OF

ORIGINAL

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1.							
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	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							
		1			MILEAGE						
		1									1455
		1									55
		1									
		1									
		1									
		1									
		1									
		1									

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 DEC 29 1995  
 CONSERVATION DIVISION  
 WICHITA, KS

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

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

**X**

DATE SIGNED	TIME SIGNED	<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	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
			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?				
			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				
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered.			<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE			8837 80

**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
	X		114057	

## 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.

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