

ORIGINAL

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

Operator: License # 5952

Name: Amoco Production Company

Address PO Box 800 Room 924

City/State/Zip Denver, CO 80201

Purchaser: Texaco-Oil Amoco-Gas

Operator Contact Person: Susan R. Potts

Phone (303) 830-5323

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: Ken LeBlanc

Designate Type of Completion

New Well Re-Entry Workover

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

If Workover:

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. _____

6/13/96 6/21/96 7/10/96
Spud Date Date Reached TD Completion Date

API NO. 15- 187-20840-0000

County Stanton

C - NW - SW Sec. 35 Twp. 29S Rge. 40 X W

1980 Feet from SN (circle one) Line of Section

660 Feet from EW (circle one) Line of Section

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

Lease Name Dwight LeRoy Well # 1-35

Field Name Little Arrow

Producing Formation St. Louis

Elevation: Ground 3254.93' KB 3268'

Total Depth 5750' PBDT 5718'

Amount of Surface Pipe Set and Cemented at 1706 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2905 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1, 87 1-23-97
(Data must be collected from the Reserve Pit)

Chloride content 1200 ppm Fluid volume 1500 bbls

Dewatering method used Dried and Filled

Location of fluid disposal if hauled offsite: NLU

RELEASED

SEP 13

Operator Name _____

Lease Name OCT 12 1998 License No. CONFIDENTIAL

Quarter Sec. Twp. S Rng. E/W

County FROM CONFIDENTIAL Docket No. _____

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 9/13/96

Subscribed and sworn to before me this 13th day of SEPTEMBER 1996.

Notary Public [Signature]

Date Commission Expires SEPTEMBER 4 1997

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

2070 BROADWAY
DENVER, CO 80201

RECEIVED Form ACO-1 (7-91)
STATE CORPORATION COMMISSION

9-16-96
SEP 16 1996

CONFIDENTIAL

Operator Name Amoco Production Company Lease Name Dwight LeRoy Well # 1-35

Sec. 35 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Chase	2241'	KB
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Council Grove	2530'	
List All E-Logs Run: Microlog, High Resolution Induction, Spectral Density Dual Spaced Neutron II		Base Heebner	3702'	
		Lansing	3760'	
		Marmaton	4382'	
		Cherokee	4554'	
		Morrow	5078'	
		Chester	5464'	
		Ste. Genevieve	5504'	
		St. Louis	5612'	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25"	8.625"	28	1706'	Premium Plus Lite	500	2%CC+1/4#Flocele
Production-1st Stage	7.875"	4.5"	10.5	5000-5750'	Premium Plus	150	2%CC+1/4#Flocele
Production-2nd Stage	7.875"	4.5"	10.5	13-2905'	Premium Plus Lite	250	1%CC, 7%EA-2, .6% Halad-322, 15% Salt
						600	1/4#skD-Air 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
4	5612-5620'	N/A	

TUBING RECORD	Size <u>2.375" 4.7# J-55 EUE T&C</u>	Set At <u>5656'</u>	Packer At <u>5656'</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	First Oil- <u>7/19/96</u>	First Gas- <u>9/9/96</u>	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 <u>70</u> BOPD	Bbls.	Gas <u>25</u> MSCFD	Mcf
			Water <u>65</u> BWPD	Bbls.
			Gas-Oil Ratio	Gravity

Disposition of Gas: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <u>5612-5620'</u>	Production Interval
	<input type="checkbox"/> Other (Specify) _____	

CONFIDENTIAL

ORIGINAL

AMOCO PRODUCTION COMPANY
DWIGHT LEROY 1-35
SECTION 35-T29S-T40W
STANTON COUNTY, KANSAS

15-187-20840

COMMENCED: 06-13-96
COMPLETED: 06-24-96

RELEASED

OCT 12 1998

SURFACE CASING: 1701' OF 8 5/8" CMTD
W/500 SKS PREMIUM PLUS LITE + 2% CC + 1/4
#/SK FLOCELE. TAILED IN W/150 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE

FROM CONFIDENTIAL

FORMATION

DEPTH

SURFACE HOLE	0 - 1701
RED BED & SANDSTONE	1701 - 1890
STONE CORRAL	1890 - 2420
SHALE AND LIMESTONE	2420 - 3071
COUNCIL GROVE	3071 - 3290
LIMESTONE & SHALE	3290 - 3410
COUNCIL GROVE	3410 - 3650
LANSING	3650 - 4490
LANSING & MARMATON	4490 - 4640
CHEROKEE	4640 - 4930
MORROW	4930 - 5590
ST LOUIS	5590 - 5750 RTD

NOV
SEP 13
CONFIDENTIAL

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

CHEYENNE DRILLING, INC.

Wray Valentine
WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 25TH DAY OF JUNE, 1996



JOLENE K. RUSSELL

Jolene K. Russell
NOTARY PUBLIC

RECEIVED
STATE CORPORATION COMMISSION

SEP 16 1996

CONSERVATION DIVISION
WICHITA, KANSAS

JOB LOG HAL-2013-C

CUSTOMER <i>Amoco</i>	WELL NO. <i>1-35</i>	LEASE <i>Dwight LeRoy</i>	JOB TYPE <i>010</i>	TICKET NO. <i>919419</i>
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>1230</i>							<i>Called out - REQ "1300" CST</i>
	<i>1230</i>							<i>On loc. - Rig Drilling</i>
								<i>Rig up - Safety Meeting</i>
	<i>1905</i>							<i>Hookup to pipe asg. Down - 19 ft out</i>
								<i>Make up connections - Flow back</i>
								<i>Hookup to pipe - returns early</i>
								<i>T.O.H. a asg.</i>
	<i>2150</i>							<i>Release from loc. ORIGINAL</i>
								<i>6-15-96</i>
	<i>0600</i>							<i>Called out - Req "0800" CST</i>
	<i>0830</i>							<i>On loc - Run asg.</i>
	<i>0950</i>							<i>On Bottom - 1708 ft</i>
	<i>0955</i>							<i>Hookup to pipe</i>
	<i>1026</i>							<i>Hookup to cnt</i>
	<i>1029</i>	<i>0-6</i>	<i>180</i>		<input checked="" type="checkbox"/>		<i>1/200</i>	<i>Pump lead @ 500 sks</i>
	<i>1102</i>	<i>6</i>	<i>35</i>		<input checked="" type="checkbox"/>		<i>200</i>	<i>Pump trail @ 150 sks</i>
	<i>1107</i>	<i>6-0</i>					<i>200</i>	<i>Shut down - Drop plug</i>
	<i>1108</i>	<i>0-6</i>	<i>10 1/2</i>		<input checked="" type="checkbox"/>		<i>1/400</i>	<i>Pump Disal.</i>
	<i>1126</i>	<i>6-2 1/2</i>			<input checked="" type="checkbox"/>		<i>400</i>	<i>Reduce Rate</i>
	<i>1128</i>	<i>2 1/2-0</i>			<input checked="" type="checkbox"/>		<i>450</i>	<i>Plug Down</i>
	<i>1132</i>				<input checked="" type="checkbox"/>		<i>900</i>	<i>Release Press. - Flwt "held"</i>
								<i>Treas. of cnt. to Surface</i>
								<i>Approx 3 bbls or 8 sks</i>
								<i>Thank you!</i>
								<i>Tom & Sonny & CREW</i>
								RELEASED
								OCT 12 1998
								FROM CONFIDENTIAL
								RECEIVED
								STATE CORPORATION COMMISSION
								SEP 10 1996



JOB SUMMARY

HALLIBURTON DIVISION Mid Continent
 HALLIBURTON LOCATION Liberal KS

BILLED ON TICKET NO. 919417

WELL DATA

FIELD: _____ SEC: 35 TWP: 29 RNG: 90W COUNTY: Sharton 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	11	24	8 1/4	KB	1700	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS	CONFIDENTIAL					
PERFORATIONS	CONFIDENTIAL					
PERFORATIONS	CONFIDENTIAL					

JOB DATA

CALLED OUT	ON-LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-14-96</u>	DATE <u>6-14-96</u>	DATE <u>6-14-96</u>	DATE <u>6-15-96</u>
TIME <u>1030</u>	TIME <u>1230</u>	TIME <u>1905</u>	TIME <u>1132</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>11 set / 11 1/2</u>	<u>1</u>	<u>Howe</u>
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>12 1/4</u>	<u>4</u>	
BOTTOM PLUG		
TOP PLUG <u>5 1/2</u>	<u>1</u>	
HEAD <u>PC</u>	<u>1</u>	
PACKER		
OTHER <u>as 14</u>	<u>1</u>	

MATERIALS

TREAT. FLUID: _____ DENSITY _____ LB/GAL. °API
 DISPL. FLUID: _____ DENSITY _____ LB/GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ 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 _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
ORIGINAL		
RELEASED		
OCT 12 1996		
FROM CONFIDENTIAL		
CONFIDENTIAL		

DEPARTMENT Crat.
 DESCRIPTION OF JOB Set Surface pipe
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Tom Poyer

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD: CU.FT./SK.	MIXED LBS./GAL.
	<u>500</u>	<u>Paco Plus Lt</u>		<u>B</u>	<u>2% cc, 1/4 1/2 lb Fluor</u>	<u>2.03</u>	<u>12.3</u>
	<u>150</u>	<u>Paco Plus</u>		<u>B</u>	<u>2% cc, 1/4 1/2 lb Fluor</u>	<u>1.34</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN: _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 30.82 REASON Stop Joint

PRELUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 104 1/2
 CEMENT SLURRY: BBL.-GAL. 181 + 33 1/4
 TOTAL VOLUME: BBL.-GAL. _____
 RECEIVED REMARKS
 STATE CORPORATION COMMISSION
 SEP 16 1996

CUSTOMER: Acme
 LEASE: Dunghit Leasing
 WELL NO.: 1-35
 JOB TYPE: 010
 DATE: 6-14-96



CHARGE TO: Amoco Production Co.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

DUNCAN COPY

TICKET

919417 - 4

RELEASED

OCT 12 1980

CONFIDENTIAL

PAGE 1 OF 2

HAL-1906-N

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. <u>25540</u>	<u>1-35</u>	<u>Dwight Leroy</u>	<u>Stanton</u>	<u>KS</u>	<u>Big Bow</u>	<u>10/14-96</u>	<u>SAMB</u>
2. <u>25535</u>		<u>Cheyenne</u>	<u>#7</u>		<u>Wellsite</u>		
3.							
4.							
WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION			
<u>01</u>	<u>01</u>	<u>010</u>	<u>API</u>	<u>15-187-20840000 Land (35 29s 40w)</u>			
REFERRAL LOCATION	INVOICE INSTRUCTIONS:						

CONFIDENTIAL

RECEIVED STATE CORPORATION COMMISSION SEP 16 1980

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>000-117</u>		<u>1</u>			<u>MILEAGE</u>	<u>EA</u>	<u>mi</u>	<u>146</u>	<u>mi</u>	<u>2.85</u>	<u>416.10</u>
<u>000-11.9</u>		<u>1</u>			<u>Crew mileage</u>	<u>EA</u>	<u>mi</u>	<u>146</u>	<u>mi</u>	<u>1.50</u>	<u>219.00</u>
<u>030-01.8</u>		<u>1</u>			<u>Top plug</u>	<u>3</u>	<u>ft</u>	<u>8 5/8</u>	<u>ft</u>		<u>130.00</u>
<u>001-016</u>		<u>1</u>			<u>Pump charge</u>	<u>6</u>	<u>hrs</u>	<u>1908</u>	<u>ft</u>		<u>1320.00</u>
<u>24A</u>	<u>815.19501</u>	<u>1</u>			<u>insert FH vlv.</u>	<u>1</u>	<u>EA</u>	<u>8 5/8</u>	<u>in</u>		<u>182.00</u>
<u>27</u>	<u>815.19414</u>	<u>1</u>			<u>Fillup Assy</u>	<u>1</u>	<u>EA</u>	<u>8 5/8</u>	<u>in</u>		<u>64.00</u>
<u>41</u>	<u>806.61044</u>	<u>1</u>			<u>CENTRALIZERS</u>	<u>4</u>	<u>EA</u>	<u>8 5/8</u>	<u>in</u>	<u>61.00</u>	<u>244.00</u>
<u>350</u>	<u>890.10802</u>	<u>1</u>			<u>Weld A</u>	<u>2</u>	<u>EA</u>	<u>1</u>	<u>lb</u>		<u>16.75</u>
<u>27</u>	<u>815.19414</u>	<u>1</u>			<u>Fillup Assy</u>	<u>1</u>	<u>EA</u>	<u>8 5/8</u>	<u>in</u>		<u>64.00</u>
<u>001-018</u>		<u>1</u>			<u>Additional hours</u>	<u>EA</u>	<u>hr</u>	<u>3</u>	<u>hrs</u>	<u>235.00</u>	<u>705.00</u>
<u>001-018</u>		<u>1</u>			<u>Additional hours</u>	<u>EA</u>	<u>hr</u>	<u>4</u>	<u>hrs</u>	<u>235.00</u>	<u>NC</u>

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:

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

AGREE UN-DECIDED 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

PAGE TOTAL 3360.85

FROM CONTINUATION PAGE(S) 40 681 66

14042.51

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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
<u>X</u>	<u>[Signature]</u>	<u>Jan Payer</u>	<u>48120</u>	

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 OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

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

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART-INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas: 77056.

JOB LOG HAL-2013-C

 CUSTOMER: *Amoco* WELL NO.: *1-35* LEASE: *Dwight 1st* JOB TYPE: *035* TICKET NO.: *919422*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
#1	1130							Called out - Requested 1530 CST
	1435							On loc - L.D.P.
	1800							Run seq. @ 4 1/2 ^{10.5} - 5754 feet
	2105							On bottom - Hook-up to circ.
	2110							Broke circulation
	2112							Hook-up to cmt: ORIGINAL
	2116	0-7	60		✓		↑ 0/350	Pump cmt. @ 250 sks
	2125	7-0			✓		↓ 250/0	Shut down - Drop plug - washup tek.
	2129	0-7	40		✓		↑ 0/200	Pump Displacement @ H ₂ O
	2135	7-6	51		✓		↑ 250/100	Pump Displacement @ mud
	2141	6-2 1/2			✓		↓ 1100/500	Reduce Rate
	2145	2 1/2-0			✓		↑ 700/1500	Plug Down @ 91 bbls in
	2146				✓		↓ 1500/0	Release Press - Plug latched
	2149				✓			Drop opening plug
	2200	0-3			✓		↑ 0/1350	Open MSC.
		3			✓		↓ 1350/250	Tool open
	2203	3-0			✓		↓ 250/0	Shut down @ 9 bbls mud out
	2205							Hook up well to mud pump W.O.C.
								SEP 13
#2								Hook-up to cmt
	0213	0-1 1/4	220		✓		0/350	Pump lead cmt @ 600 sks
	0245	6 1/2-0			✓		500/0	Shut down - Drop plug - wash-up tek.
	0249	0-6			✓		0/250	Pump Displ. @ H ₂ O
	0254	6-3			✓		950/150	Reduce Rate @
	0258	3-0			✓		750/1700	Plug Down
	0258				✓		1700/0	Release Press. - Tool closed
								Cement to surface Approx 40 bbls or 109 sks
								Thank you! Tom & Tyce + crew

CONFIDENTIAL

CONFIDENTIAL

RELEASED
OCT 12 1998

RECEIVED
STATE CORPORATION COMMISSION
SEP 16 1996

FROM CONFIDENTIAL



JOB SUMMARY

HALLIBURTON DIVISION *Mid Continent*
HALLIBURTON LOCATION *Liberal Ks*

BILLED ON TICKET NO. *919422*

WELL DATA

FIELD _____ SEC. *35* TWP. *29* RNG. *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 *D.V.* TOTAL DEPTH *2905*

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<i>U</i>	<i>10.5</i>	<i>4 1/2</i>	<i>K13</i>	<i>5754</i>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						

CONFIDENTIAL ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>6-23-96</i>	DATE <i>6-23-96</i>	DATE <i>6-23-96</i>	DATE <i>6-24-96</i>
TIME <i>1130</i>	TIME <i>1435</i>	TIME <i>2116</i>	TIME <i>0258</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>T Payer</i>	<i>420042</i>	<i>Liberal Ks</i>
<i>T Davis</i>	<i>52423</i>	<i>" "</i>
<i>Ike Trul</i>	<i>50404</i>	<i>Hugoton Ks</i>
<i>Mike Langworth</i>	<i>50404</i>	<i>" "</i>
<i>DEANAS</i>	<i>3732</i>	<i>" "</i>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <i>L.D. Baffle</i>	<i>4 1/2</i>	<i>1</i>
FLOAT SHOE		
GUIDE SHOES <i>REB</i>	<i>1</i>	
CENTRALIZERS <i>6 REB, 8 Turb</i>	<i>14</i>	
BOTTOM PLUG <i>L. Dual</i>	<i>1</i>	
TOP PLUG <i>D.V. SPT</i>	<i>1</i>	
HEAD <i>PC</i>	<i>1</i>	
PACKER <i>Basket</i>	<i>1</i>	
OTHER <i>Component</i>	<i>1</i>	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. °API
DISPL. FLUID _____ DENSITY _____ LB./GAL. °API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____
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. _____
PERFAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

RELEASED

OCT 12 1998

FROM CONFIDENTIAL

DEPARTMENT: *Cement*
DESCRIPTION OF JOB: _____
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE: **X**
HALLIBURTON OPERATOR: *Tom Payer*
COPIES REQUESTED: _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<i>1st</i>	<i>250</i>	<i>"H"</i>		<i>B</i>	<i>1% CC, 7% EA-2, 4% Hated 202, 15% Salt</i>	<i>1.35</i>	<i>15.6</i>
<i>2nd</i>	<i>600</i>	<i>0" Hat</i>		<i>B</i>	<i>1% CC Fluoide</i>	<i>2.06</i>	<i>12.3</i>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRES LUSH: BBL.-GAL. _____ TYPE _____
BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. *91 + 46*
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. *601 220*
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

RECEIVED
STATE CORPORATION COMMISSION
SEP 16 1996

ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
REMARKS _____
FEET *31.82* REASON *Shot Joint*

CUSTOMER *Amoco*
LEASE *Dwight LeRoy*
WELL NO. *1-35*
JOB TYPE *035*
DATE *6-23-96*

